



SELF- ASSESSMENT REPORT FOR NATIONAL BOARD OF ACCREDITATION (NBA)

Samarth Educational Trust Arvind Gavali College of Engineering At- Panmalewdi, Post- Varye, Tal-Dist. Satara-415015

e-SAR Department of Mechanical Engineering

CRITERION	Vision, Mission and Program Educational	60
01	Objectives	

1.1 State the Vision and Mission of the Department and Institute

(05)

A. Availability of the Vision and Mission statements of the department

VISION of Institute:

To be an institute of excellence, developing skilled engineers to serve the industry and society.

MISSION of Institute

M1: To provide quality education through effective teaching learning process.

M2: To develop professional skills and promote innovation among students by providing conducive atmosphere.

M3: To inculcate ethical values, respect for the environment & social responsibility.

VISION of Department

To develop professional technocrats and socially responsible engineers in the field of Mechanical engineering.

MISSION of Department

- M1: To provide quality education to enhance academic competency keeping pace with the industrial needs.
- M2: To develop attitude and the professional skills for employability and research.
- M3: To imbibe ethical values in graduates for the progressive social development.

1.2 State the Program Educational Objectives (PEOs)

(05)

The Program Educational Objectives of Civil Engineering program is listed below:

- **PEO 1:** The graduates will be able to apply concepts from the fundamental engineering for solving problems in industry.
- **PEO 2:** The graduates will be able to demonstrate professional skills for the understanding of Mechanical engineering and allied areas to address complex real-life problems.
- **PEO 3:** The graduates will be able to take responsibility to serve the society and to preserve the environment through ethical values.

1.3. Indicate where the Vision, Mission and PEOs are published and disseminated among Stakeholders (10)

1.3 A: Publication and dissemination of Vision, Mission and PEOs

The department is responsible for making a lot of effort to communicate its vision, mission, and PEOs to all internal and external stakeholders through a variety of media, including digital, print through student progress records, vinyl records, and interactivity through meetings that can be held both offline and online.

Table: 1.1 provides information on the release and distribution of statements.

Stakahaldan Tuna Dumpaga/mala		D aven og s / no lov og so	Mode of Publication	
Stakenolder	гуре	Purpose/relevance	and dissemination	
		• Creating a development	1. Banners for all the	
		strategy and a roadmap;	visiting and participating	
Management	Internal	human, and financial	stakeholders at	
		resources; and developing	meeting/interaction	
		policies.	sites. (Entrance to the	
		• Implementer	department, office of the	
	Internal	(Contributor) of	head of department,	
			Policies;	faculty rooms,
				• Major Contributor in
		Creating and	department meeting	
Faculty and Support		Implementing Growth	room/library)	
Staff		Plan;	2. The department	
		• Responsible with	newsletter, laboratory	
		Producing Competent	manuals, faculty course	
		Graduates/Product	files, information	
		from the Institution	brochures, event and	
		• accountable for	industrial visit reports,	
Students	Internal	building the reputation	academic diaries, and a	

Table 1.1: Stakeholders of the Program

		and results of the	book for internal test
		institute.	assessments.
		• employing recent	3. The remarks are made
		college graduates and	available digitally via the
Employers	External	evaluating their	Institute website, emails,
		competency and	social media,
		employability	screensavers, event
		• both an employer and a	presentations, and the
Inductory	External	participant in initiatives	CANVA platform.
maustry	External	involving industry and	4. The distribution is
		academic institutions.	monitored in both online
		• Capable of connecting	and offline settings, such
		professional practice	as meetings with
		and learning, provides	administrators and
Alumni	External	the	stakeholders and
		department/program	introduction programme.
		Committee with	
		pertinent input	
		• offers financial	
		assistance to the	
		institution and	
Funding Agencies	External	communicates with the	
		department's or	
		program's faculty and	
		principal investigator.	
		• Perception of the	
		department's or	
Parents	External	program's assistance in	
		guiding their wards'	
		careers	
		• establishes guidelines	
Regulatory/	External	and standards to	
		guarantee quality	

Accrediting			control ar	d
Authorities/Professional			improvement	
bodies				
		•	from the viewpoint of	of
Society	External		the institution, offer	rs
			intangible results	

Table 2: Vision, Mission & PEOs are Published & Disseminated

Sl.No.	Mission and Vision are published at	Internal Stake Holders	External Stake Holders
1	College Website: <u>www.agce.edu.in</u> (https://agce.edu.in/)	\checkmark	\checkmark
2	Institute Moodle : https://103.159.152.195/moodle/	\checkmark	
3	Curriculum Course File	\checkmark	
4	Academic Diary		
5	Internal Test Assessment Book	\checkmark	
6	Department Notice Board		
7	Laboratories		
8	Staff Rooms	\checkmark	
9	Class Rooms	\checkmark	
10	Department Newsletter	\checkmark	\checkmark
11	Industry Institute Interaction Meets		V



Fig.1.3 a Screenshot of Vision- Mission & PEOs disseminated on Website

Ho	me 🚦 Microsoft Windows 🗯 Library Genesis 🕝 Google 🎂 IRCTC Next Generat 🄊 Aptitude Questions 🔇 Sakal Epi
AG	CE CE
	Course congraine: 10ED/WWICK, DIGREERING
ſ	
	VISION
	> To develop professional technocrats and socially responsible engineers in the field of Mechanical Engineering.
	MISSION
	M1: To provide quality education to enhance academic competency keeping pace with the industrial needs.
	M2: : To develop attitude and the professional skills for employability and research.
	M3: To imbibe ethical values in graduates for the progressive social development.
	Program Educational Objectives (PEOs)
	PEO1: The graduates will be able to apply concepts from the fundamental engineering for solving problems in industry and society.
	PEO2: The graduates will be able to demonstrate the understanding of mechanical engineering and allied areas to address complex real-life problems.
- 1	PEO3: The graduates will be able to take responsibility to serve the society and to preserve the environment through ethical values.
- 1	Program Specific Objectives (PSOs)
	PSO1: Students will be able to acquire competencies in the usage of design, thermal and manufacturing principles to develop a product and process.

Fig.1.3 b Screenshot of Vision, Mission and PEOs disseminated on MOODLE

1.3 B: Process of Dissemination

- Through interactions between stakeholders, which specifically relate to the vision, mission aspects, and PEOs in the development, implementation, and execution of academic programme, the spread of statements is observed.
- During the induction programme, the vision, mission aspects, and PEOs serve as a road map for a successful career.
- The students are educated about career plans and higher education in accordance with the vision, mission, and PEOs during the guidance and counselling session.
- It is noted during administrative meetings that academic plan policies, execution, and monitoring are in line with the vision, mission elements, and PEOs.
- The department head, programme coordinator, and course coordinators present the vision and mission at the start of each term and at other points throughout sessions.
- During classes, faculty members discuss the significance of the Vision and Mission as well as how they relate to the Program Outcomes with the students.
- Every event, including meetings with DAB, parental meetings, and technical and nontechnical events, has included a description of the institute's vision, mission, and departmental vision, mission, and programme educational outcomes.
- The department head, in collaboration with the programme coordinator, informs the faculty on the significance and applicability of the program's vision and mission in relation to its educational objectives and outcomes.

1.3 C: Extent of Awareness of Vision, Mission & PEOs

In meetings with internal and external stakeholders, such as the Departmental Advisory Board (DAB), parents, employers, alumni, students through GFM, faculty meetings, events inauguration, etc., the head of the department has shared the department's vision, mission, and PEOs. To inform internal & external stakeholders of the on-going development of department-and outcome-based education, the significance of the vision and its accomplishments through the mission, along with the relevance of programme educational outcomes (PEOs), have been described.



Fig.1.3 c Awareness of Vision, Mission & PEOs

1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (25)



Figure 1.4 a: Process of defining the Vision & Mission of Department

- Process of Defining the Vision & Mission of the Department
- The Department established its Vision and Mission statements through a consultative process by interacting with all the stakeholders of the department, the long term and short-term goals of the department and the societal requirements as shown in following Figure 1.4a. The Vision and Mission statements of the department were formulated during in the year 2020. The new Outcome Based Education (OBE) accreditation process has given an opportunity to review and modify the Vision and Mission statements of the department considering the Graduate Attributes. The Internal stakeholders involve students, staff members etc. whereas external stakeholders involve industries/employers, parents, alumni, professional bodies etc. The following steps have been followed to formulate vision & mission of the department.
- Step1: Head of Department along with faculty members formulate & coordinate the vision and mission statement of the department, based on the continuous feedback from internal & external stakeholders in line with vision and mission of the Institute.
- Step2: The formulated statements of vision & mission are presented in the DAB meeting and waiting for their recommendations or suggestions/advice. It is in continuous flow from review of faculty & HoD to Departmental Advisory Board & vice versa till the final recommendation from DAB.
- Step3: Recommended vision and mission statements from DAB are sent to the IQAC to coordinate with governing body. Once it is accepted by IQAC, the governing body has approved it in coordination with IQAC.
- Step 4: Finally, the vision and mission statements are published to internal & external stakeholders through digital & print media.



Figure 1.4 b: Process of defining the Program Educational Outcome (PEOs) of Department

• Process of Defining the Program Educational Outcomes (PEOs) of the Program

- The process of defining PEOs is in conjunction with Vision, Mission of program and inputs received from a committee constituting representatives of all internal & external stakeholders as shown in figure 1.4 b. The PEOs are established through following steps.
- Step 1: PEOs were created by HoD comprising of students, staff members, alumni, industrial experts, professional bodies and data on current and future trends.
- Step 2: The formulated PEOs are forwarded to Departmental Advisory Board (DAB) for recommendation or suggestions in formulated PEOs. It is in continuous flow HoD to Departmental Advisory Board & vice versa till the final recommendation from DAB.
- Step 3: Recommended PEOs statements from DAB are sent to the IQAC to coordinate with governing body. Once it is accepted by IQAC, the governing body has approved it in coordination with IQAC.
- Step 4: Finally, the Program Educational Outcomes (PEOs) statements are published to internal & external stakeholders through digital & print media.

1.5. Establish consistency of PEOs with Mission of the Department(15)(Generate a "Mission of the Department – PEOs matrix" with justification and rationaleOf the mapping)

The Program Educational Objectives are consistent with the Mission statement of the department which is stated in following table 3.

PEO Statements	M1	M2	M3
The graduates will be able to apply concepts from the fundamental engineering for solving problems in industry.	3	2	1
The graduates will be able to demonstrate professional skills for understanding of mechanical engineering and allied areas to address complex real- life problems.	2	3	2
The graduates will able to take responsibility among them to serve the society and to preserve the environment through the ethical values.	1	2	3

	M1	M2	M3	
PEO Statements	To provide quality education to enhance academic competency keeping pace with the industrial needs	To develop attitude and the professional skills for employability and research.	To imbibe ethical values in graduates for the progressive social develo pment	
PEO:1 The graduates will be able to apply concepts from the fundamental engineering for solving	3	2	1	M1Stronglysupports to achievePEO1, as theobjective is todevelopthestudentsinaccordance with theglobalindustry

problems in		requirements,
industry.		which is possible
-		through academic
		competence and the
		latest technological
		developments.
		M 2 Moderately
		supports to attain
		PEO1, as objective
		is to inculcate
		research culture in
		the students which
		will be developed
		moderately by
		exposing them
		merely to the latest
		technological
		developments
		de veropinents.
		M 3 slightly
		supports PEO1, as
		objective is to
		develop the projects
		which will be useful
		to the society and
		also be
		environmental
		friendly. PEO
		statement relates
		only to the
		technological
		developments
		which may be
		concerned about
		society and
		environment
		environnent.
		0 11 1
		Overall, the
		department mission
		reasonably supports
		PEO1.

				M. 1. modemtels
PEO:2 The graduates will be able to demonstrate professional skills for understanding of mechanical engineering and allied areas to address complex real- life proble ms.	2	3	2	 M 1 moderately supports PEO 2; as students will be technically sound, by acquiring engineering knowledge and developing them for satisfying the global needs. M 2 strongly supports PEO 2; as mechanical engineering core knowledge, professional skills and research aptitude developed in the students through various technical activities, helps the students for life-long learning. M 3 slightly supports to PEO2 as it is related to sensitivity towards the society and etihcal values. Overall, the department mission reasonably supports PEO2.

				M 1 slightly
				supports PEO 3 as
				the students can
				serve the society
				with the help of
				their knowledge
				and skills.
				M2 moderately
PEO:3 The				supports PEO 3;
graduates will				Research activities
able to take				and practical based
				learning can
responsibility				develop the system
among them to				the society
serve the society	1	2	3	the society.
and to preserve				M2 highly over outs
the environment				for the achievement
through				of PEO3 by
the othical value				establishing
the ethical value				sensitivity towards
S.				the society,
				environment and
				ethical values.
				Overall, the
				department mission
				reasonably supports
				PEO3

	M1	M2	M3
	To provide quality education to enhance academic competency keeping pace with the industrial needs.	To develop attitude and the professional skills for employability and research.	To imbibe ethical values in graduates for the progressive social development.
PEO-1 The graduates will be able to apply concepts from the fundamental engineering for solving problems in industry.	3 PEO- Basic Knowledge of Science & Technology M- Technical Knowledge	2 PEO- Solving Civil Engineering Problems M- Innovative approaches	1 PEO- Applying Basic Knowledge of Science M- Well Being Environment
PEO-2 The graduates will be able to demonstrate the understanding of Mechanical engineering and allied areas to address complex real- life problems.	2 PEO- Techniques in Civil Engineering M- Technical Knowledge	3 PEO- Develop Solutions M- Innovative Approaches	1 PEO- Society Based Problems M- well-being of environment and society
PEO-3 The graduates will be able to take responsibility to serve the society and to preserve the	1 PEO- Developments in Technology	2 PEO- Lifelong Learning M- Creativity	3 PEO- Maintain the Pace M- Inculcate the Value

environment ethical values.	through	M- Technical Knowledge & Competency	

PEOs	Mission Component
PEO-1 The graduates will be able to apply concepts from the	M1 - To impart essential technical knowledge and competency among students
fundamental engineering for solving problems in industry.	M2 - To enhance innovative approaches towards creativity.
	M3 - To inculcate the values for the well-being of environment and society.
PEO-2 The graduates will be able	M1 - To impart essential technical knowledge in mechanical engineering and allied branch.
of Mechanical engineering and	M2 - To enhance innovative approaches towards creativity.
real-life problems.	
	M3 - To inculcate the values for the well-being of environment and society.
PEO-3 The graduates will be able to take responsibility to serve the society and to preserve the	M1 - To impart essential technical knowledge and competency among students
environment through ethical values.	M2 - To enhance innovative approaches towards creativity.
	M3 - To inculcate the values for the well-being of environment and society.

CRITERION	Program Curriculum & Teaching Learning	120
02	Process	

2.1.1. State the process used to identify the extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any (10)

Arvind Gavali College of Engineering, Satara is affiliated with Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere Maharashtra. Mechanical engineering department follows the scheme and syllabus of DBATU. The scheme follows the semester pattern and is divided into eight semesters, for a four-year graduation program. The curriculum contains basic, social sciences, humanities, and professional and elective courses.

According to the university curriculum, each course is mapped with 12 Program Outcomes (POs) and 2 Program Specific Outcomes (PSOs), and the evaluation of each PO and PSO is done. The university's recommended courses adhere strictly to all PSOs and PO's. Faculty from the Mechanical program actively participate in developing and implementing the University curricula. By setting up several skill-oriented certified add-on courses and industry-sponsored competitions for the student's overall development, academic flexibility is accomplished. To help students fulfill the demands and expectations of the industry, the program offers a variety of supplementary courses.

Sr.	Type of Courses Offered	Number	Number of Credits	Weightage
No.		of	allotted	in
		Subjects		percentage
		Mapped		
1	Basic Sciences Courses(BSC)	10	27	16
2	Engineering Sciences Courses (ESC)	13	23	14
3	Humanities and Social Science Including Management Courses (HSSMC)	3	3	2

Table B 2.1.1a Mapping of Curriculum Components with PO/ PSOs

4	Professional Core Course (PCC)	34	12	7
5	Professional Elective Course (PEC)	02	73	44
6	Open Elective Course (OEC	07	6	4
7	Seminar/Mini Project/ Internship	06	18	11
8	Project(MP)	02	5	3
	Total	77	167	100





The institution implements the overall curriculum break up as per DBATU which is for 8 semesters. The curriculum for the Bachelor of Technology in Mechanical engineering is given in Table B 2.1.1b

Table B 2.1.1 b University Curriculum Structure

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Sr.	Course	Course Title	Tea	Weekl ching	y hrs	E	Credit			
INO.	Code		L	Т	Р	CA	MSE	ESE		
1	Mandatory	Induction Program	3 weeks duration in the beginning of the semester							
2	BTBS101	Engineering Mathematics - I	3	1	-	20	20	60	4	
3	BTBS102	Engineering Physics	3	1	-	20	20	60	4	
4	BTES103	Engineering Graphics	2		-	20	20	60	2	
5	BTHM104	Communication Skills	2		-	20	20	60	2	
6	BTES105	Energy and Environment Engineering	2	-	-	20	20	60	2	
7	BTES106	Basic Civil and Mechanical Engineering	2		-	50	-		Audit	
8	BTBS107L	Engineering Physics Lab			2	60	-	40	1	
9	BTBS108L	Engineering Graphics Lab	-	-	4	60	9	40	2	
10	BTHM109L	Communication Skills Lab	-	120	2	60	-	40	1	
		TOTAL	14	2	8	330	100	420	18	

Semester - I Group A

Sr.	Course	Course Title	Tea	Weekl ching	hrs	F	valuat Schem	Credit	
No.	Code		L	Т	P	CA	MSE	ESE	
1	BTBS201	Engineering Mathematics - II	3	1	-	20	20	60	4
2	BTBS202	Engineering Chemistry	3	1	-	20	20	60	4
3	BTES203	Engineering Mechanics	2	1	-	20	20	60	3
4	BTES204	Computer Programming in C	2	-	1	20	20	60	2
5	BTES205	Workshop Practices	-	-	4	60	-	40	2
6	BTES206	Basic Electrical and Electronics Engineering	2	-	-	50	-	-	Audit
7	BTES207L	Computer Programming Lab	1.2	-	2	60	-	40	1
8	BTBS208L	Engineering Chemistry Lab	-	-	2	60	-	40	1
9	BTES209L	Engineering Mechanics Lab	-	-	2	60	-	40	1
10	BTES210P	Mini Project		-	2	60	-	40	1
11	BTES211P	Field Training / Internship / Industrial Training (minimum of 4 weeks which can be completed partially in First Semester and Second Semester or in at one time).	-	-	-	•	-		Credit to be evaluated in III Sem
		TOTAL	12	3	12	430	80	440	19

Semester - II Group B

Course Code	Type of	Course Title	Week	dy Tea Schem	ching	F	Credits			
S.	Course	3	L	Т	Р	CA	MSE	ESE	Total	3
BTBSC301	BSC 7	Engineering Mathematics-III	3	1	4	20	20	60	100	4
BTMEC302	ESC 11	Materials Science and Metallurgy	3	1	1	20	20	60	100	4
BTMEC303	PCC 1	Fluid Mechanics	3	1	10	20	20	60	100	4
BTMEC304	PCC 2	Machine Drawing and CAD	2	<u>855</u> 5	222	20	20	60	100	2
BTMEC305	ESC 12	Thermodynamics	3	1		20	20	60	100	4
BTHM3401	HSMC 3	Basic Human Rights	2	**	4	50		a an	50	Audit (AU/ NP)
BTMEL307	ESC 13	Materials Science and Metallurgy Lab	-	22.5	2	60	- 22	40	100	1
BTMEL308	PCC 3	Fluid Mechanics Lab	(860)	*	2	60	-	40	100	1
BTMEL309	PCC 4	Machine Drawing and CAD Lab	-	1420	4	60		40	100	2
BTMEF310	Project 1	Field Training /Internship/Industrial Training I	-	1	-	н		50	50	1
		Total	16	4	8	330	100	470	900	23

B. Tech. Mechanical Engineering Course Structure for Semester III [Second Year] w.e.f. 2018-2019

Got

Course Code	Type of	Course Title	Week	ly Tea Schem	e ching	F	Credits			
Contra Cont	Course		L	Т	P	CA	MSE	ESE	Total	
BTMEC401	PCC 5	Manufacturing Processes - I	2	1	4	20	20	60	100	3
BTMEC402	PCC 6	Theory of Machines-I	3	1	j,	20	20	60	100	4
BTMEC403	PCC 7	Strength of Materials	3	1		20	20	60	100	4
BTMEC404	BSC 8	Numerical Methods in Mechanical Engineering	2	1		20	20	60	100	3
BTID405	PCC 8	Product Design Engineering – I	1	1772	2	60		40	100	2
BTBSE406A		Physics of Engineering Materials								
BTBSE3405A	OEC 1	Advanced Engineering Chemistry	3			20	20	60	100	3
BTHM3402		Interpersonal Communication Skill& Self Development								
BTMEL407	PCC 9	Manufacturing Processes Lab - I	-	+	2	60	2 -	40	100	1
BTMEL408	PCC 10	Theory of Machines Lab- I		3788	2	60	177.2	40	100	1
BTMEL409	PCC 11	Strength of Materials Lab	4		2	60		40	100	3 1 3
BTMEL410	BSC 9	Numerical Methods Lab	12	3788	2	60	177.5	40	100	1
	-	Total	14	4	10	400	100	500	1000	23
Minimum 4 wee	ks training	which can be completed p	artially	in thir	d and f	ourth se	mester o	r in at or	ne time.	

B. Tech. Mechanical Engineering Course Structure for Semester IV [Second Year] w.e.f. 2018-2019

Course Code	Type of	Course Title	Week	dy Tea Schem	iching e	F	Credits			
Compt Cour	Course		L	Т	P	CA	MSE	ESE	Total	Creates
BTMEC501	PCC 12	Heat Transfer	3	1X	Х.	20	20	60	100	4
BTMEC502	PCC 13	Applied Thermodynamics – I	2	1	10	20	20	60	100	3
BTMEC503	PCC 14	Machine Design – I	2	1%	30	20	20	60	100	3
BTMEC504	PCC 15	Theory of Machines- II	3	1	£	20	20	60	100	4
BTMEC505	PCC 16	Metrology and Quality Control	2	1	3	20	20	60	100	3
BTID506	PCC 17	Product Design Engineering - II	1	100	2	60		40	100	2
BTMEC506A	e s	Automobile Engineering	3 5	10		8				9) 1011122
BTMEC506B	OEC 2	Nanotechnology	3	2	33	1942	22	-	-	Audit (AU/ NP)
BTMEC506C		Energy Conservation and Management								00000
BTMEL507	PCC 18	Heat Transfer Lab	-	-	2	30	#	20	50	1
BTMEL508	PCC 19	Applied Thermodynamics Lab		877	2	30		20	50	ī
BTMEL509	PCC 20	Machine Design Practice- I	-		2	30	-	20	50	1
BTMEL510	PCC 21	Theory of Machines Lab- II		877	2	30	15	20	50	1
BTMEF511	Project 2	Field Training /Internship/Industrial Training II	-	4	£		-	50	50	L.
		Total	16	5	10	280	100	470	850	24

B. Tech. Mechanical Engineering Course Structure for Semester V [Third Year] w.e.f. 2019-2020

Course Code	Type of	Course Title	Week	ly Tea	ching	ŀ	valuatio	n Scher	ne	Credits
Course Cour	Course	Course rate	L	Т	Р	CA	MSE	ESE	Total	Creatis
BTMEC601	PCC 22	Manufacturing Processes- II	2	1	1	20	20	60	100	3
BTMEC602	PCC 23	Machine Design-II	3	1		20	20	60	100	4
BTMEC603	PCC 24	Applied Thermodynamics- II	2	1		20	20	60	100	3
BTMEC604A	3	Engineering Tribology			2	2	93 - 38 	Qi		
BTMEC604B		IC Engines								1
BTMEC604C	PEC 1	Additive Manufacturing	2	1		20	20	60	100	1
BTMEC604D		Mechanical Measurements							e	
BTMEC605A	OEC 3	Quantitative Techniques in Project Management				5	9 - 39	2). — 3	· · · · ·	9
BTMEC605B		Sustainable Development	3		200	20	20	60	100	3
BTMEC605C		Renewable Energy Sources								
BTMEC606A		Biology for Engineers						: 0		A
BTMEC606B	OEC 4	Solar Energy	3		252	1.775			12	(AU/ NP)
BTMEC606C		Human Resource Management					siia			0.000
BTMEL607	PCC 25	Metrology and Quality Control Lab			2	30	(**)	20	50	1
BTMEL608	PCC 26	Machine Design Practice-II			2	30		20	50	I
BTMEL609	PCC 27	IC Engine Lab			2	30		20	50	1
BTMEL610	PCC 28	Refrigeration and Air Conditioning Lab	640	110	2	30	-	20	50	1
BTMEM611	Project 3	Technical Project for Community Services		**	4	30	1	20	50	2
		Total	15	4	12	250	100	400	750	22

B. Tech. Mechanical Engineering Course Structure for Semester VI [Third Year] w.e.f. 2019-2020

Course Code	Type of	Courses Tale	Week	ly Tea Schem	ching	E	valuatio	on Scher	ne	Credits	
Course Coue	Course	Course Thie	L	Т	P	CA	MSE	ESE	Total	Creuits	
BTMEC701	PCC 29	Mechatronics	2	I	1	20	20	60	100	3	
BTMEC702	PCC 30	CAD/CAM	2	1		20	20	60	100	3	
BTMEC703	PCC 31	Manufacturing Processes - III	2	I		20	20	60	100	3	
BTMEC704A		Fluid Machinery		Γ							
BTMEC704B	1	Industrial Engineering and Management									
BTMEC704C	Lanze	Finite Element Method		~	52	2000	1001		55550		
BTMEC704D	PEC 2	Surface Engineering	2 I = 2 ingineering tion and Air ning	20	20	60	100	3			
BTMEC704E		Refrigeration and Air Conditioning									
BTAMC704C		Automobile Design (Product Design, PLM, CAE, Catia)								_	
BTMEC705A		Engineering Economics		a	3	6	a)a				
BTMEC705B	OEC 5	Intellectual Property Rights								Audit	
BTMEC705C		Wind Energy	3		1	073.5	353	5	70	(AU/ NP)	
BTMEC705D		Knowledge Management				10		10- X			
BTMEL706	PCC 32	Manufacturing Processes Lab - II	a.	1	2	30	-	20	50	a.	
BTMEL707	PCC 33	Mechatronics Lab	×		2	30		20	50	1	
BTMEL708	PCC 34	CAD/CAM Lab	1	2	2	30	-	20	50	1	
BTMES709	Project 4	Seminar		-	2	30		20	50	1	
BTMEF710	Project 5	Field Training /Internship/Industrial Training III	8	10	1	÷		50	50	1	
BTMEP711	Project 6	Project Stage-I**	4	1	6	30	1	20	50	3	
	90	Total	11	4	14	230	80	390	700	20	

B. Tech. Mechanical Engineering Course Structure for Semester VII [Fourth Year] w.e.f. 2020-2021

Course Code	Type of	Course Title	Week	ly Tea Schem	ching e	H	Credits			
	Course		L	Т	Р	CA	MSE	ESE	Total	
	-	×	-	20	20	60	100	3		
Choose any two subjects from ANNEXURE-A#			120	-	<u>.</u>	20	20	60	100	3
BTMEP803	Project 7	Project Stage-II or Internship and Project*	1551		30	50		100	150	15
		Total	-	- 22	30	90	40	220	350	21

B. Tech. Mechanical Engineering

Course Structure for Semester VIII [Fourth Year] w.e.f. 2020-2021

* Six months of Internship in the industry

These subjects are to be studied on self --study mode using SWAYAM/NPTEL/Any other source

Student doing project in Industry will give NPTEL Examination/Examination conducted by the University i.e. CA/MSE/ESE

Students doing project in the Institute will have to appear for CA/MSE/ESE

Table 2.1.1b Curriculum Structure

The department has a well-defined process in implementation to achieve the Program Outcomes (POs) and Program Specific Outcomes (PSOs). If some components, to attain COs/POs are not included in the curriculum provided by DBATU, then the department makes additional efforts to impart this knowledge by incorporating them is used to identify the extent of compliance for attaining the program outcomes and Program Specific Outcomes.



Figure B 2.1.1 b Process to Identify Curriculum Gaps

- 1. The University publishes the curriculum annually in June if changed or updated. The curriculum provides the syllabus of each course.
- Faculty members update and design the course outcomes for the course allotted to them.
 The teaching plan with course objectives and course outcomes is prepared by the

individual faculty member of the department before the commencement of a semester. The plan is duly presented and confirmed in DAB. The plan ensures the coverage of the complete syllabus before the end of the semester

- For each course, a course file is prepared by the concerned faculty member. The Corelation matrix of CO with PO/ PSOs is also designed and analyzed by Academic Monitoring Committee.
- 4. The feedback from the alumni, industry experts, and academicians from other Universities and students is regularly taken. Gaps are identified based on the CO attainment of individual courses and feedback from different stakeholders.
- 5. The data collected is then presented in front of the Program Evaluation and Review Committee. The gaps are discussed in the AMC meeting. To bridge gaps, seminars, workshops, guest lectures, industrial visits, etc. are arranged by our department/ institute to provide knowledge beyond the syllabus. The following table shows the correlation matrix courses to program outcomes.

Subject Code	Name of Subject	P O	P O 2	P O 2	P O 4	P O 5	P O 6	P 0 7	P 0 8	P O	PO 10	P 01 1	P 0	PS O	PS O
F.Y. B Tech Part-I Sem-I			2	3	•	5	Ū	,	Ū	9		-	12	1	4
BTBS101	Engineering Mathematics- I	Y	Y	Y	Y		Y					Y	Y	Y	Y
BTBS102	Engineering Physics	Y	Y	Y	Y		Y	Y					Y	Y	Y
BTES103	Engineering Graphics	Y	Y	Y	Y	Y					Y		Y	Y	
BTHM10 4	Communication Skills	Y				Y	Y		Y		Y		Y	Y	Y
BTES105	Energy and Environment Engineering	Y	Y	Y	Y		Y	Y	Y		Y	Y		Y	Y
BTES106	Basic Civil and Mechanical Engineering	Y	Y	Y	Y		Y	Y			Y	Y		Y	Y
BTBS107 L	Engineering Physics Lab	Y	Y	Y	Y		Y	Y		Y			Y	Y	Y
BTES108 L	Engineering Graphics Lab	Y	Y	Y	Y	Y				Y	Y		Y	Y	
BTHM10 9L	Communication Skills Lab.	Y				Y	Y		Y		Y		Y	Y	Y
F.Y. B Tech Part-II Sem-II				I	1	1	1	1	I	1		1	1	1	
BTBS201	Engineering Mathematics-II	Y	Y	Y	Y		Y					Y	Y	Y	Y
BTBS202	Engineering Chemistry	Y	Y				Y	Y		Y				Y	
BTES203	Engineering Mechanics	Y	Y	Y			Y			Y				Y	Y
BTES204	Computer Programming in C	Y	Y	Y						Y	Y				

BTES205	Workshop Practices	Y				Y				Y	Y			Y	Y
BTES206	Basic Electrical and Electronics Engineering	Y					Y	Y							
BTES207 L	Computer Programming Lab	Y	Y	Y						Y	Y				
BTBS208 L	Engineering Chemistry Lab	Y	Y				Y	Y		Y				Y	
BTES209 L	Engineering Mechanics Lab	Y	Y	Y			Y	Y		Y	Y			Y	Y
BTES210 P	Mini Project	Y	Y			Y	Y	Y	Y	Y	Y			Y	Y
BTES211 P	Field Training / Internship/Industria I Training (minimum of 4 weeks which can be completed partially in first semester and second Semester or in at one time).	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
S.Y. B Tech	Part-I Sem-III														
BTBSC30 1	Engineering Mathematics-III	Y	Y	Y		Y				Y		Y	Y	Y	Y
BTMEC3 02	Materials Science and Metallurgy	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y
BTMEC3 03	Fluid Mechanics	Y	Y	Y									Y	Y	Y
BTMEC3 04	Machine Drawing and CAD	Y	Y	Y								Y	Y	Y	Y
BTMEC3 05	Thermodynamics	Y	Y	Y		Y							Y	Y	
BTHM34 01	Basic Human Rights		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y
BTMEL3 07	Materials Science and Metallurgy Lab	Y	Y	Y		Y				Y		Y	Y	Y	
BTMEL3 08	Fluid Mechanics Lab	Y	Y	Y		Y				Y		Y	Y	Y	
BTMEL3 09	Machine Drawing and CAD Lab	Y	Y	Y		Y						Y	Y	Y	Y
BTMEF31 0	Field Training /Internship/Industri al Training I	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

S.Y. B Tech Part-II Sem-IV															
BTMEC4 01	Manufacturing Processes - I	Y	Y	Y			Y				Y		Y	Y	Y
BTMEC4 02	Theory of Machines-I	Y	Y	Y	Y	Y	Y		Y		Y	Y	Y	Y	Y
BTMEC4 03	Strength of Materials	Y	Y	Y	Y	Y	Y		Y		Y		Y	Y	
BTMEC4 04	Numerical Methods in Mechanical Engineering	Y	Y		Y	Y								Y	
BTID405	Product Design Engineering – I	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
BTHM34 02	Interpersonal Communication Skill& Self Development		Y	Y	Y	Y		Y	Y	Y	Y	Y	Y		Y
BTMEL4 07	Manufacturing Processes Lab – I	Y	Y	Y		Y		Y			Y	Y	Y	Y	Y
BTMEL4 08	Theory of Machines Lab- I	Y	Y	Y		Y		Y			Y	Y	Y	Y	Y
BTMEL4 09	Strength of Materials Lab	Y	Y	Y		Y	Y	Y			Y	Y	Y	Y	
BTMEL4 10	Numerical Methods Lab	Y	Y		Y	Y						Y		Y	Y
T.Y. Btech	Part-I (Sem- V)														
BTMEC5 01	Heat Transfer	Y	Y	Y			Y	Y	Y		Y	Y	Y	Y	
BTMEC5 02	Applied Thermodynamics – I	Y	Y	Y		Y	Y	Y				Y	Y	Y	
BTMEC5 03	Machine Design – I	Y	Y	Y		Y	Y						Y	Y	Y
BTMEC5 04	Theory of Machines- II	Y	Y	Y	Y	Y	Y	Y	Y		Y		Y	Y	Y
BTMEC5 05	Metrology and Quality Control	Y	Y	Y	Y	Y						Y	Y	Y	Y
BTID506	Product Design Engineering - II	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
BTMEC5 06A	Automobile Engineering	Y	Y	Y		Y			Y	Y	Y		Y	Y	
BTMEL5 07	Heat Transfer Lab	Y	Y	Y		Y				Y	Y	Y	Y	Y	
BTMEL5 08	Applied Thermodynamics Lab	Y	Y	Y	Y	Y				Y	Y	Y	Y	Y	
---------------	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---
BTMEL5 09	Machine Design Practice- I	Y	Y	Y		Y					Y	Y	Y	Y	Y
BTMEL5 10	Theory of Machines Lab- II	Y	Y	Y		Y	Y				Y	Y	Y	Y	
TY B.Tech Par	rt II (SEM VI)														
BTMEC6 01	Manufacturing Processes- II	Y	Y	Y	Y	Y		Y	Y				Y	Y	
BTMEC6 02	Machine Design-II	Y	Y		Y		Y						Y	Y	
BTMEC6 03	Applied Thermodynamics- II	Y	Y	Y		Y		Y					Y	Y	
BTMEC6 04B	IC Engines	Y	Y	Y		Y		Y					Y	Y	
BTMEC6 05C	Renewable Energy Sources	Y	Y	Y		Y			Y	Y			Y	Y	
BTMEC6 06B	Solar Energy	Y	Y	Y	Y	Y	Y			Y				Y	
BTMEL6 07	Metrology and Quality Control Lab	Y	Y	Y		Y				Y		Y	Y	Y	Y
BTMEL6 08	Machine Design Practice-II	Y	Y	Y		Y				Y	Y		Y	Y	
BTMEL6 09	IC Engine Lab	Y	Y	Y		Y				Y	Y	Y	Y	Y	
BTMEL6 10	Refrigeration and Air Conditioning Lab	Y	Y	Y		Y				Y	Y	Y	Y	Y	
BTMEM6 11	Technical Project for Community Services	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y
Final Year I	B.Tech (Sem- VII)														
BTMEC7 01	Mechatronics	Y	Y	Y		Y		Y	Y				Y	Y	
BTMEC7 02	CAD/CAM	Y	Y	Y	Y	Y		Y	Y				Y	Y	
BTMEC7 03	Manufacturing Processes - III	Y	Y	Y	Y	Y		Y	Y			Y	Y	Y	
BTMEC7 04B	Industrial Engineering and Management	Y	Y	Y		Y		Y			Y	Y	Y	Y	Y

BTMEC7 05C	Wind Energy	Y	Y	Y		Y		Y			Y		Y	Y	
BTMEL7 06	Manufacturing Processes Lab - II	Y	Y	Y			Y			Y	Y	Y	Y	Y	
BTMEL7 07	Mechatronics Lab	Y	Y	Y		Y	Y				Y	Y	Y	Y	
BTMEL7 08	CAD/CAM Lab	Y	Y	Y		Y	Y				Y	Y	Y	Y	Y
BTMES70 9	Seminar	Y	Y	Y	Y	Y			Y	Y	Y	Y		Y	Y
BTMEF71 0	Field Training /Internship/Industri al Training III	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
BTMEP71 1	Project Stage-I	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Final Year H	BTech (Sem- VIII)														
BTMEC8 01A	Fundamentals of Automotive Systems	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	
BTMEC8 01F	Non-Conventional Energy Resources	Y	Y	Y	Y	Y		Y	Y				Y	Y	
BTMEP80 3	Project Stage-II	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Total (77)	75	65	69	38	57	35	38	32	30	49	46	60	62	39
	Percentage	97	84	90	49	74	45	49	42	39	64	60	78	81	51
		P 0 1	PO 2	PO 3	PO 4	PO 5	P 0 6	Р О 7	PO 8	P O 9	PO1 0	PO 11	PO 12	PS O1	PS O2

Table B.2.1.1.c Mapping of the courses to program outcomes

Curricular Gaps

The following table list the identified gaps in the syllabus of DBATU for the attainment of Program Outcomes and Program Specific Outcomes as per the above mapping.

Sr. No.	PO's	Description
1	PO4	Conduct investigations of complex problems
2	PO6	The engineer & society
3	PO7	Environment & sustainability
4	PO8	Ethics
5	PO9	Communication

Table B 2.1.1.d	Gaps in Program	Outcomes of	University	Curriculum
-----------------	------------------------	-------------	------------	------------

Following are the year-wise curriculum gap identified:

CAY (2022-23):

Table B.2.1.1e Identified Curricular Gaps

Sr. No	Relevant Course/Area	Curriculum Gap Identified	Relevance to PO & PSO
1	Machine Design-II	Recent trends in gear design	PO1, PO3, PO5, PSO1
2	I.C. Engines	Application of carburetor in Automobile Engg.	PO1,PO5,PSO1
3	Heat Transfer	Difference between Heat Transfer and Mass Transfer	PO1,PSO1

CAYm1 (2021-22):

Table B.2.1.1 f Identified Curricular Gaps

Sr. No	Relevant	Curriculum Gap	Relevance to PO & PSO	
	Course/Area	Identified		
1		Problem analysis	PO2 PO5 PSO1	
1		using modern tools	102, 103, 1301	
2	Machatronics	Recent trends in		
2	Mechatronics	Mechatronics	103,1302	
	Motallurgy and Matorial	Latest trends and		
3	Science	techniques in	PO5, PSO1	
	JUEILE	castings		

4	Project work	Start up	PO6,PO7,PO8,PO9,PO11,PSO2
5	Industry Essential Skills	Industrial Culture	PO8, PSO2,PSO1
6	Soft skill & Personality Development	Communication Skill, Presentation Skill	PO10, PO12 PSO1, PSO2
7	Entrepreneur Skills	Leadership Skill	PO9, PO11 PSO1, PSO2
8	Social Health & Safety Issues	Awareness about social health and safety measures	PO6, PO7, PSO2
9	Awareness of Higher Education	Various higher education opportunities	PO12, PSO1
10	Awareness of Education Support Scheme	Various higher education financial support schemes	PSO1

CAYm2 (2020-21)

Table B.2.1.1 g Identified Curricular Gaps

Sr. No	Relevant Course/Area	Curriculum Gap	Relevance to PO &		
		Identified	PSO		
1	Machine Drawing and	2D and 3D	PO3, PO5, PSO1		
	CAD (BTMEC304)	Modelling			
2	Industrial Engineering and	Process	PO2, PO3, PO5,		
	Management	Implementation	PSO1		
	(BTMEC704B)				
3		Practical aspects of	PO1, PO2, PO5,		
	Manufacturing Processes-	CNC Programming,	PSO1		
	II (BTMEC601)	machining			
		simulation			

CAYm3 (2019-20)

Table B.2.1.1 h Identified Curricular Gaps

Sr. No	Relevant Course/Area	Curriculum Gap Identified (Content Beyond Syllabus)	Relevance to PO & PSO		
1	Thermodynamics	Practical Exposure	PO5,PSO1		
2	Theory of Machines -II	Advances in vibration	PO5, PO7, PSO1		
3	Industry Essential Skills	Industrial Culture	PO6, PO8, PO9 PSO, PSO2		

4	Soft skill & Personality Development	Communication Skill, Presentation Skill	PO8, PSO2
5	Entrepreneur Skills	Leadership Skill	PO5, PO9 PSO1, PSO2
6	Social Health & Safety Issues	Awareness about social health and safety measures	PO6, PO7, PSO2
7	Awareness of Higher Education	Various higher education opportunities	PO12, PSO1
10	Awareness of Education Support Scheme	Various higher education financial support schemes	PSO1

CAYm4 (2018-19):

Table B.2.1.1 i Identified Curricular Gaps

Sr. No	Relevant Course/Area	Curriculum Gap Identified	Relevance to PO & PSO
1	Industry Essential Skills	Industrial Culture	PO8, PSO1
2	Soft skill & Personality Development	Communication Skill, Presentation Skill	PO10, PO12 PSO1, PSO2
3	Entrepreneur Skills	Leadership Skill	PO9, PO11 PSO1, PSO2
4	Social Health & Safety Issues	Awareness about social health and safety measures	PO6, PO7, PSO2
5	Awareness of Higher Education	Various higher education opportunities	PO12, PSO1

2.1.2. State the delivery details of the content beyond the syllabus for the attainment of

POs and PSOs. (10)

CAY (2022-23):

Table B.2.1.2.a Content discussed beyond the syllabus to fill the curriculum gap

Sr	Gap	Action	Date- Month Voor	Resource	No of Students	Relevance to Pos, PSOs
· N		Такеп	Month-Year	Designation	Students	
0.						
1	Soft skill & Personality Development	Corporate Grooming	21-02-2023 to 23-02-2023	Mr. George	20	PO8,PO9,PO10,PO11,P O12,PS01,PSO2
2	Application of engineering knowledge	AVISHKAR 2022-2023	18-11-2022	Dr. Gayatri Mirajkar & Kadam Arjun A.	10	PO5,PO6,PO7,PO9,PO1 0,PO11,PSO1,PSO2
3	Usage of Modern Tools	Solid Work	07/12/2022 to 25/01/2023	Mahesh Sathe	12	PO5,PSO1
4	Application of engineering knowledge	Project Exhibition	24-12-2023	Dr. Salman Warimani	25	PO6,PO7,PO12 PSO2
		Expert	24 May 2023	Ms	30	
_	Applications of quality	lecture of		Aishwarya		PO9.PO6.PO12
5	engineering	quality		Salunkhe		PSO2
	domain	engineer				
	Applications	Expert	21 June 2023	Ms Nikita	30	
	of heat	lecture on		Sawant		
6	engineering	heat				PO9, PO10, PO12 PSO1
	domain	exchanger				
		S				
	Campus to	Expert	19 April	Mr Ajinkya	18	
	corporate life	lecture on	2023	Pandharpatte		
7		industry				PO6,PO9, PO10, PO12
		culture				
		and trends				

	Campus to	Expert	06 July 2023	Rohit G	22	
	corporate life	lecture on		Asawale		
8		industry				PO10, PO12,PSO2,PSO1
		culture				
		and trends				
	Orientation	Expert	16 May 2023	Ms Mayuri	12	
	of service/purch	lecture on		Shewale		
	ase domain	supply				PO10. PO12.PSO2
9		chain				1010,1012,2002
		manageme				
		nt				
	Campus to	Expert	06 Feb 2023	Mr Vedant	63	
	corporate life	lecture on		Shinde		
10		industry				PO10, PO12,PSO2
10		culture				
		and trends				
	Modern tool	Expert	24 May 2023	Ms Adishree	30	
11	usage	lecture on		Pawar		PO6, PO12,PSO2
		SAP				
	Campus to	Expert	21 June 2023	Mr Aniket	15	
	corporate life	lecture on		Yadav		
12		industry				PO10, PO12, PSO2
		culture				
		and trends				
	Modern tool	Expert	26 July 2023	Mr Panaskar	55	
	usage	lecture on		Pratik		
13		various				PO10, PO11, PO12
		design				
		softwares				
			1			

	Campus to	Expert	07 July 2023	Mr Rushikesh	10	
	corporate life	lecture on		Chavan		
14		industry				PO10, PO12, PSO2
		culture				
		and trends				
	Orientation	Expert	26 July 2023	Mr Aniket	55	
	of fluid	lecture on		Gaikwad		
	domain	various				DOC DOZ DO10
15		fluid				P06,P07,P012 PS02
		control				
		valves				
	Campus to	Expert	28 March	Pratik Shinde	21	
	corporate life	lecture on	2023			
16		industry				PO6,PO9,PO7,PSO2
10		culture				
		and trends				
17	Modern tool usage	Expert lecture on various design softwares	28 July 2023	Mr Nikhil Dhane	34	PO5,PSO1
	Interdisciplin	Expert	15 March	Mr Suraj	26	
	ary knowledge	lecture on	2023	Dixit		
		career				
18		opportunit				PO9,PO11
		ies in IT				
		sector				
19	Orientation about latest trends in Mechanical Engineering	Expert lecture on robotics engineerin g	02 Jan 2023	Mr Akash Lembe	15	PO5,PSO1
20	Knowledge regarding	Expert lecture on	24 May 2023	Mr Pratik Mane	30	PO1,PO5,PSO1

	quality domain	different trends for quality measurem ent				
21	Design procedure of gears, valve	Industrial Visit to Delval india Pvt Ltd	9 th June 2022	Mr. Ankur Kamble	26	PO1, PO3, PO5,PSO1
22	Pre primary process of raw material of sheet metal operations	Industrial Visit to Oracle Press comp Engineeri ng Pvt. Ltd.	26 th May 2023	Dr. Khadtare A.N.	15	PO1, PO7,PO8,PO9,PSO1
23	Overhauling and maintenance of engine components	Industrial Visit to MSRTC Workshop , Satara	13 th May 2023	Mr. Ghadage S.S.	28	PO1, PO5,PO11,PSO1
24	CNC programing and operation	Industrial Visit to Maharasht ra Scooter Pvt Ltd	20 th Dec.2022	Mrs. Alatkar M.N.	20	PO4, PO5,PSO1,PSO2

CAY m1(2021-22):

Table B.2.1.2.b Content discussed beyor	nd the syllabus to fill the curriculum gap
---	--

Sr. No.	Gap	Action Taken	Date- Month-	Resource Person with Designation	No of Students	Relevance to Pos. PSOs
1.00			Year			1 00, 1 0 0 0
	Problem	Workshop on	26/11/21 to	Mahesh Sathe	25	PO1, PO5,
1	analysis using modern tools	CATIA	21/1/2022			PO3, PO4, PSO1
	Problem	Workshop on	26/1/22 to	Mahesh Sathe	30	PO2, PO3,
2	analysis using modern tools	Creo 3.0	27/2/2022			PO5,PO4, PSO1
	Latest trends in	Expert lecture on	2^{nd}	Dr Shirguppikar	15	
	castings	Material Science	February	Shailesh RIT		PO1, PO2,
3			2022	Islampur		PO3, PO4,
				F		PSO1
	Tachnical	Execut Lecture	01.02	Dr. A.D.Chalan	08	
	Skills in line	Expert Lecture	01-02-	Dr A.B.Gnolap,	08	PO1 PO2
4	with the	on Industrial	2022	Asst Prof		PO3, PO4,
	requirements	Engineering		MMCOE Pune		PSO1
	of the industry					
	Technical	Expert Lecture	01-02-	Dr Choudhari	10	
5	with the	on Heat Transfer	2022	C.S. AISSMS		PO3, PO4,
0	requirements			Pune		PSO1
	of the industry					
	Technical	Expert Lecture	05-02-	Mr Vikram Pawar	13	
6	Skills in line	on Applied	2022			PO2, PO3,
0	requirements	Thermodynamics				PO4, PSO1
	of the industry					
	Technical	Expert Lecture	28-01-	Mr Pujari A.S.	27	
7	Skills in line	on Applied	2022	Resarch Scholar		PO1, PO2,
/	with the requirements	Thermodynamics		IIT Bombay		PO3, PO4, PSO1
	of the industry	Thermodynamics		III Domoay		1501
	Technical	Expert Lecture	29-01-2022	Mr Manik Patil	29	
	Skills in line	on Theory of		DYPIT Pimpri		
8	with the	Mashina H				PO1,PO2,PSO1
	of the industry	Iviacnines-II				

9	Technical Skills in line with the requirements of the industry	Internal Hackathon of Smart India Hackathon 2022	28- 29/04/2022	Dr. Mirajkar Gayatri		PO1, PO2, PO3, PO4, PSO1
10	To Enhance communication skills	Soft skill program Conducted by Rubicon	16-22 /9/2022	Mr. G George	38	PO10
11	Dimensional Modeling	One-day Workshop on Business Intelligence	13/11/2021	Mr. Suyog Patil	37	PO6, PO3, PO5, PSO1
12	Usage of Modern Tools	Effective Use of ICT Tools (MOODLE), NPTEL COURSERA Certification	21-12- 2021	Ms. S.Y. Mulla	43	PO2, PO3, PO4, PSO1
13	Soft skill & Personality Development	English Speaking Session	16-04- 2021 to 13-08- 2021	Mr. Kale Abhay.A. (A.G.C.E., Satara)		PO2, PO3, PO4, PO10, PSO1
14	Recent Trends & Industry Readiness	Campus To Corporate Activity	1-05-2022 to 30-06- 2022	Ms. Bhilare Nikita.S. Mr. Kale Abhay.A		PO1, PO2, PO3, PO4, PSO1
15	Soft skill & Personality Development	Brand Yourself	17-05- 2022 to 19-05- 2022	Mr. George		PO1, PO2, PO3, PO4, PSO1
16	Industry Readiness	Yuva 360 degree Internship	14-06- 2022	Mrs. Patil		PO2, PO3, PO4, PSO1
17	Awareness of Higher Education	German Language Training Program	24/02/2022 07/4/2022	Ms. Sunita Shaligram		PO1, PO2, PO3, PO4, PSO1

CAY m2 (2020-21):

Table B.2.1.2.c	Content discussed	beyond the sy	llabus to fill th	e curriculum gap
------------------------	--------------------------	---------------	-------------------	------------------

Sr. No.	Gap	Action Taken	Date- Month- Year	Resource Person with Designation	No of Students	Relevance to Pos, PSOs
1	Practical aspects of CNC Programming, machining simulation	CNC Programming Workshop in Yugam 2020	29/06/2020	Mr. Bhoite L.K. S.D. Tech Institute Hadapsar	30	PO5, PO8, PO2, PSO1
2	Process Implementation	Lean six sigma in Yugam 2020	29/06/2020	Mr. Prasad Kulkarni,	30	PO3, PO5, PSO1
3	3D, Surface modelling and assembly, machin	UG NX in Yugam 2020	29/06/2020	 Mr. Suraj Patil (Design Engineer Product Development JCB Pune) Mr. Mahesh Sathe (Founder Design Solution Karad) Mr. Omkar Pathwardhan (Design Engg. Supreme Equipment Pvt. Ltd, Nashik) Mr. Suyog Patil (Assistant Professor AGCE, Satara) 	42	PO3, PO8, PSO1
4	Industry Software Test Cases, Black Box Testing,	A career in Software Testing:	9/5/2021	Mr. Sushant Sankpal Quality Kiosks Mumbai	10	PO2, PO3, PO4, PSO1

	Categories of Testing	Prerequisite & Opportunities				
5	Entrepreneur Skills	Guidance session on Entrepreneurship Development	25 th April 2021	Mr. Mandar Kulkarni, Owner Ideal Gas Springs, Satara	15	PO9, PO10, PSO1
6	Technical Skills requirements	How to Crack Gate Examination	5-12-2020	Mr.Sumit Acharya (Gate Academy Pune)	20	PO2, PO3, PO5, PSO1

CAYm3(2019-20):

Table B.2.1.2.d Content discussed beyond the syllabus to fill the curriculum gap

Sr. No.	Gap	Action Taken	Date- Month- Year	Resource Person with Designation	No of Students Participate d	Relevance to Pos, PSOs
1.	Practical exposure for manufacturin g of automobile components and emission norms	Industrial Visit to Mahindra Vehicle Manufacturing Limited, Chakan MIDC, Maharashtra	20/09/2019	Mr. Melwyn Munnuswamy (Team Leader Administration &CSR)	50	PO1, PO9,PO3,PO5,P 7,PO11,PSO1
2	Soft skill & Personality Development	Personality Development Program by Rubicon Skill Development Pvt Ltd	10/09/2019- 12/09/2019	1.Grayish Shriwastv 2. Mr Amar Shinde 3. Satya S	31	PO1,PO2,PO3,P O4,PO5,PSO1P SO2
3	Awareness on Education Support Scheme	Cummins Scholarship Orientation	23 rd August 2019	Mr. Swaroop Shiras	23	PSO1
4	Industry Essential Skills	Resume building and interview technique workshop	23/01/2020	Mr. Naren Juvekar	156	PO2, PO3, PO5, PO6, PSO2

5	Soft skill & Personality Development	AVISHKAR 2019-20 Poster Presentation Competition	19 th October 2019	Hon. Mr. Shri. S. V. Khobragade (Prof.In-charge of Start up at DBATU Lonere	All SY, TY and BE Students	PO8, PO12PSO2
6	Awareness of Higher Education	Orientation Program on GATE by ACE Academy	12/03/2020	Mr. Abhay Chaugule	28	PO12, PSO1
7	Social Health & Safety Issues	Healthy Life Style for Student	4/04/2020	Dr. Manohar Sasane	47	PO12, PSO1
8	Youth Development Program	"Jal Divas "Celebration	22/7/2019	NSS Coordinator		PO6,PO7,PO12 PSO2
9	Youth Development Program	"Activity for helping people of flood affected areas"	18/08/2019	NSS Coordinator		PO6,PO7,PO12 PSO2
10	Youth Development Program	"Swachata hi Seva"	02/10/2019	NSS Coordinator		PO6,PO7,PO12 PSO2
11	Youth Development Program	NSS Camp @ AnewadiSatar a	02/02/2020- 08/02/2020	NSS Coordinator		PO6,PO7,PO12 PSO2
12	Social Health & Safety Issues	"Road Safety week"	17/01/2020	Mrs. AfreenMulani (RTO Officer Satara)	38	PO6,PO7,PO12 PSO2
13	Youth Development Program	Aptitude Sessions (40 Sessions)	1-09- 2019 to 13-03-2020	Prof Patil S,P Prof Pawar S.D. Prof Kasture A.D.	21	PO9,PO6,PO12 PSO2
14	Youth Development Program	Attitude Building for professional Excellence	23-11-2020	Prof. Pramod Bhadakawade (Symbiosis International University Pune)	20	PO9, PO10, PO12 PSO1
15	Youth Development Program	Development of	24-11-2020	Prof. Pramod Dastoorkar (Professor,	20	PO6,PO9, PO10, PO12

		Communicati		MIT Academy		
		on Skills		of		
				Engineering,		
				Pune)		
16				Prof. Dr.		
				Avinash V.		
				Waghmare(Al		
	Vanth	Comon		1 India Shree		
	Youin Development	Career	5 11 2020	Shivaji	15	PO10, PO12
	Development	opportunities	5-11-2020	Memorial	15	
	Program	after B. Tech.		Society,		
				College of		
				Engineering,		
				Pune)		
17				Mr. Vijay		
				Adsul (Head-		
		G		Training -		
	Youth	Career		IDBI, Rural		DO10 DO10
	Development	opportunities	11-11-2020	Self	16	PO10, PO12
	Program	in Banking		Employment		
	0	Sectors		Training		
				Institute.		
				Satara		
18				Mr.		
				Chandrkant		
	Youth	Yoga for		Deoda (Sahai		
	Development	Physical and	1-12-2020	Yoga	10/36	PO6, PO12
	Program	Mental Health		Foundation		
				Pune)		
19		One Day		i une)		
15	Youth	Workshop on				PO10 PO11
	Development	Entrepreneurs	8-02-2020			PO12
	Program	hin	0-02-2020	Under lead		1012
	i iografii	Development		college		
1	1	Development	1	conege		1

2.2. Teaching - Learning Processes (100)

2.2.1. Describe Processes followed to improve the quality of Teaching & Learning (25)

A. Adherence to Academic Calendar (3M)

- The institute adheres to the academic calendar of DBATU, Lonere. The academic calendar constitutes the academic activities of the institute and the department.
- The institute prepares its academic calendar after the university academic calendar announcement at the beginning of each semester.
- In line with Institute academic calendar, the department prepares an annual activity calendar separately and shares it with the faculties and students
- All faculties and students follow the department activity calendar
- It includes the following details:
 - i. Schedule of Guest lecturers, Industrial visits, Cultural Events, and Sports activities organized by the department.
 - ii. Commencement of Semester
 - iii. Exam form filling date
 - iv. Internal Examination Schedule
 - v. Tentative dates of commencement of University practical and theory end semester examinations.
 - vi. Dates of public holidays
- Sample University, Institute, Department academic calendar is shown below

	Tel: (02140) 275142	Student Helpline: 0	mere - Raigad 40 2140-275212	2 103 (M	aharashtra)	Dr	Bhagwan I	F. Jogi			हीं, मनवान क
Dr.	Bhagwan F, Jogi	.m. ti-mail: registrar@	dbata ac, in	जी. १	भगवान %. जोगी	DE	ATU /KEG	OFC/ 2022/383			Dated: 24 / 0
-	Registrar			Data	बुल्लांबच			Academic Cal	endar Semester-I	I Revised (AY 2022-	2023)
	Academic Calenda	or 2022-23 (Odd)	Semester) (1	Engi	neering)		Sr. No.	Activity	Commencement	Concluding Date	Level
SI.	Activity	Commencement	Concluding	Total	Engineering		0.02025770	100000 B	Date		
1	Admissions: B.Tech, Second, Third and	September 01,	September	Days	100-1100		1	Commencement of Classes	1 ⁴¹ April 2023	20 th June 2023	UG
1	Final Year, M.Tech. Second year.	2022	10, 2022	10	UG and PG		2	Mid Semester Examination	8 th May 2023	12 th May 2023	UG
2	Commencement of Classes of Second, Third and Final Year	September 01, 2022	December 19, 2022	110	UG and PG		3	End of Classes	3	20 th June 2023	UG
3	Dissertation Examination of the Academic Year 2021-2022	September 01, 2022	September 10, 2022	10	PG		4	End Semester Examination	23 ^{at} June 2023	30 th June 2023	UG
4	Mid-Semester Examinations	October 12, 2022	October 21, 2022	09	UG and PG		5	Practical Examination	1 st July 2023	10 th July 2023	UG
5	Submission of Dissertation Proposal to University	October 18, 2022	October 21, 2022	04	PG		6	Result Declaration		30 th July 2023	UG
6	Display of Mid-Semester Examination Marks	October 28, 2022	October 31, 2022	04	UG and PG		т	Commencement of Classes	1 [#] Annust 2023		UG
7	Scrutiny of Master's Level Dissertation Work Proposal	November 01, 2022	November 03, 2022	03	PG			for Next semester 18 Feb – Mahashivratri	1 mgan and		
в	Exam Form Filling for Regular & Sumlementary Examinations	November 01, 2022	November 08, 2022	08	UG and PG			19 Feb – Chatrapati Shivaji M 7 March – Dhuliyandan	Aaharaj Jayanti	14 April – Dr Babasahe Jayanti	b Ambedkar
9	Exam Form Filling for Regular & Supplementary Examinations with Late Fee	November 09, 2022	November 15, 2022	07	UG and PG		Holidays	22 March – Gudi Padwa 30 March – Ram Navami		22 April – Ramzin Eid 1 May – Maharashtra D	hin
10	University Tech Fest 2021	November 17, 2022	November 19, 2022	03	UG and PG			4 April – Mahavir Jayanti 7 April – Good Friday		5 May - Buddha Pourn 29 June - Bakari Eid	ima
11	End of Classes		December 19, 2022	110	UG and PG		1)	All Sundays to be made we	orking except public l	tolidays. ribed to cover the collabor	N
12	Practical/Project/Seminar Examinations	December 20, 2022	December 23, 2022	04	UG and PG		4)	pressure andy anot addition	ni teorinez itani press	ning in serve the symmetry	. /
13	Uploading Internal, Mid Semester, Practical, Project and Evolution and the on University portfol	December 22, 2022	December 24, 2022	03	UG and PG						Pri B. F. Jogi Registrar
14	End Semester Regular & Supplementary Examination	December 26, 2022	January 21, 2023	26	UG and PG		Cop	y submitted for information: Offi y to: 1 All bases of dependence	ce of Hon'ble Vice-Cha	Dr. Babasaheb Am	Dedata Tochnologica DNERE 402 103
15	Internship/Industrial Training#		1.0	-	E- E			2. Affiliated institutes	4 889	Tal Mengano	Piar unidan (name
16	Vacation	January 1, 2023	January 20, 2023	20	Staff			 Academic Section Controller of Examination 	15 F 18	R) II	

Fig. B.2.2.1a.: Sample Academic calendar of the University

-		Samarth Educational Trust's Arvind Gavali College of Engineering, Satara Academic Calendar 2022-23 Termil			G		þ				Samarth Educational Trust's Arvind Gavali College of Engineering, Satara Academic Calendar 2022-23 Term-II
Guran Automat	Larnet.	Commenciations of Gazons and Rubinburree: 8 Tech Second, 1999 and Tech Tech Tech		-	-	Febr	wy 2	419		57eb	Care set of Caret
September 200	and the first	That I Make March Control Cart Braham	(And	Tel M	MON	728	WED	THU	101 1.07	146-27 Mm	permit AssANMACourse's CentRusters
SUB MOS THE WED THE HE SAT	1 MOL-OF URD	and the stand of a Y, 2023-02	(view		10000		1		1 4	8-11 Pak	Sunt Lamon bound Vel/ Seture Consultan meeting
1 1 1	o se says.	The second	1	-	-		-		10 11	Chiefe Lam	MA Carloi
4 9 9 9 9 9 9	h Het.	The Set 5 key deep more than the state of the set of th	1		1		-		10 10	11.100.040	D.Burd Date
11 12 13 14 15 18 11	5-075ept.		1	11	10	19	M	- 14	11 20	AP 10 Yes	Padda talan af Indeineent
10 29 20 21 11 31 34	6-23-Sept.	Induction Program	4	2	30	31	12	28	24 11	19 140	Contract of the second se
10 10 11 10 10 10	12.944	Paymanian of Proper Basedon & Science And Targetony	. 8	75	37	- 28		_	_	30-25 Pett	Landa allow many a design of second
	10-28-9+62	Explanation Day Constrained and the Constraine								23 Feb0 Mar.	Family Transferrer
	38.3660	Search and the second								25.649.	No Whith Dep
	20.54(2	Pycopen Sylmonous								27 Pail- 4 Mar.	CAS Objective and Description Experimental
	28 5428	Systoph Approval		area.	e e De	14.24				in subable Holida	ek: 38 February Mahemininans, 18 February, Dia, Mivel Mahana Jayanti
1	28.5495	the Vehicle Bay		-	-	M	anh 70	0.0		25 Palls of Mar.	Remedial Exercication
	25-38 Sept.	CAI Objection and Description Examination		-	Taare	Ine	-	mes I		T 127 Kall Ablas	CAS Expansion and Descriptive Examination
Autology Devel 29	Preside holides	or on September: Rosen Chally Oblin	West	100	100.0	TUN			-	abler	Display of Manedanae, kill of defaulter exultants and Letter Standarting
Gibber 2012	1208	Swarkk Wood Abhyve		-	-		4	1		A DE MAN	the end is a needed advanted of the literative of a new stress recenting
was anone The weet The one sal	58.04	Grant Letters/Websend Veik, Statemen Committee Stateme		1	1	1			10 11	10.01 Mar.	
	8 (34	Employ of Attentiones, List of colorider skulocits and career expectiving	~	10	1.8	14	11	10	17 11	1 II Max	ALC T IN THE
	1 & Dit.	proter in a thread Conference		1.18	10	21	11	38	24 2	ER MM	The Vehicle Cert
1 10 10 10 10 14 10	8.005	Vezileabop en frielligeneurolity: Development Ream		1.0	11	10	19	30	81	20-34 Meri	liporte unat
	1201.04	Mid Senester Itaalitation		1	-		-			25 Mar	Armod Gallering
	15-11-04	Eudoretures of NJ, Yish Obserfulnuk Proposil to University		and a	and De	11.10	-	-	_	Workship Provide	en 8 March (Pollvarden, 2). March (kulh) Pollva
11 11 12 12 12 12	19.04	Ro Vehicle Day		100		-	-	**		-	
2	14.31.04	Deplac of Mid Samerey Roats Morils		4.	1	1		I mar I	des Las	C A ALLE	Employ of Attendance, 144 of defaulter relations and Letter departiting
	In what's stable	ort: J October: Hall altha Gaude Inputs; § October: Databer, 5 October: 58-6 miles, 24 October:	Www	4 957	I MO	7.98	MED	100		a paper	bit for fair
Austerni Dayi 21	Ofwell Litelat Pa	pr. to datalase libert faderalizada					-		-	5.4 Apre	And the rest of the second sec
Necestilier-2022	1.1300	Somehing of Hitghty's Level Deservation Wark Property	50	1.1	1	4	. 9	6	2 1	1. 9.8.401	Rued Lacture resolved your resolvery carries and
a sum lastral run secol ross em SA	7 5.5 Bar.	Stand Sattern/Indexidal Vest/ Statutory Canaditate manning	48	1.0	- 10	34	3.7	13	14 1	E 14.April	Californity, of Dr. Balaanarian Arministra Argenti
	3.000	Employ of Adamstenia, that of coloridae students and (provi imposed ing	12		117	18	1.0	10	R 3	10.05 April	Display of Mid Salvastar Marks to Businetts
	114 101	Itsam form Filling for mighter & Supplementary Communities	1.10		1.14	13	14	17	38 3	a 12 mpril	Paranto Mant
	i jühim.	Pursiety Meet			-			1		10.041	No Vehicle Day
	a in 15 keep	Tasan Ferminishing for Regular & Supplementary Communities with 1989 Year	1.0	-	Same I		****		_	Numerica Partie	inger, 1 April: Good Presso, 18 April 19, Rationhafe Avelandkar Japanti, 23 April Ramouri Rob
	10-12 1944	Pager 201		- 1-1-1			11 m	141		D. a Marc	Canan Annua Milling for Bagacher & Copolementary Concernations
6 17 14 17 1 T	111.10 (800	Liniveskity Tech Fell	-	-	Tree	-L ma	1.00	- mail	-	and in Adapt	Disades of Advandance, this of deltadrar shallowin and tables depositions
	AL BOOM	the vehicle the	Mee	a 10	1 10	114	witt	1110	111 1	A DA TRACIN	Front Loop on Technician Visit / Instatenty Committee Warting
A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	Production Frank	lave & Neveralizer: Goop Hanak Jackt	10		11	1.	1	1		6 10.11 map	from how this for the day & local an action from the time with the fear
Academic Capital Providence Providence	3 80 Dec.	down Lodyry'm has al Very' Station from attack meeting		1.1		1.2	18	- 11	14	8 18:18:14:44	tion bit the first states a subset of the second states and the se
Become data	P 10.17 Dec	DAD Objection and Departmentation	14	10	1 1	14	11	18	.10. 3	18 30 Mey	He Vyhein City
and him More The Mail Ind The I	the first	Ead of Genera	11	1 1	1 11	13	24	10	18 7	7 12-87 Map	Col otheres and provide a pressent
	a linter	Exception of Four Attentions, line of defaulter stations and Latter Hepathing	1.1	11	1 2	- 81	H			27 1644	and of Choses
10 1 1 1 1 1 1 1 1	and in the	Practical Traped / Institute University	14	+	-	-	-	-	-	17 Map	Oraphy of Four Attendance, Con of defaulter anderes and Letter angelability
26 11 21 11 16 27 27	A DATE OF	Colorading Internal, Mari Lawaskar, Plactoral, Project & Security results for University period								27 Mai	Parisona Mined
17 14 18 30 11 31 31	in the last	Ramon Mail								28 May 2 has	 University President/ Institute Commission Inter-
10 16 17 10 19 10	The Real of Lot	A Triad balances & Supplementary Depresentation								the state of the	International International And International Property & Sectional Topology and An University pro-
	List mer	and matched lites		1.						81 May 6 A.M	and the second s
	IL OWS	Harry 21 Secondary (Driverses		Air	ederite 1	Depi 19		-	_	Prohetike inch	WAT AND AN ADDRESS OF A DRESS OF
Databanti: Dani 17	Contraction in the						fute 2	1008		-	
January 1923		a last languages & baseled and any Disposed and	144	-	-	11 110	W	B THAN	181 1	MY JOINTY DIV	 Anisotaly Procting/ Property Services East Institutes
allered auth MON TLM MED THU FR	A DECRETE	The section with deviced study to device the section			1	1	T	1	1	1 IL Men A /w	 A poloning internal, Mid Sementer, Prostnal, Project & Seminar works to Undersity pro-
18 1 5 3 4 5 4	7 (37384	Long and Departs	-	-			1	11	1	10 0-10-10-0	Earth Lock, re/hidserial Vice/ Makdony Contribute maning
10 + 8 10 10 10 10	11 11-11.80.	Contraction of the second	1				17	110	1	17 mold how	and Lamaster & Supplementary Examination
10 11 10 10 10 10 10	21 29.160;	And the second se						1		14 TI Long	True Day
22 11 22 34 25 55 27	38 28.100	an Angel and	1	1	1	1 18	10	11	10	10 23 2400	And the state of t
44 10 40 10	Contractor in the second		1	8	13 7	8 27	1	1 11	1.99	24.7070	A REAL PROPERTY AND A REAL
Australia Data 21	Periodia No.	Active: 14 Inex Adakar Sankryel, 34 Iani Asenddic Due Calebration		4	****	Dave 20	1			-	A
any department Staf resolution for following an Connection/decode interded to Expert & Advance on Democracy Academically Report & vendore dudient	grana for the sum 12. classes	el denemi 1 particular, Cartherness, Walfford, CTV 2 Gaussie Halfman Unitation Annulling	Ru 1.1 3.3	Carry day Carry t	Culari Culari Culari	in the tra	And a state	t that following the following	ALUTIN PR	grams for the corr lacost	1. Survivous: Cardinatorius, Water Labora, 1977 1. Survivous: Cardinatorius, Martinatorius
Rout		Principal Arvins Gave College of				100	A				Arvind M College Engineer Polytech

Fig. B.2.2.1b.:Sample Institute Academic Calendar





Fig. B.2.2.1c.: Sample Department Academic Calendar



B. Use of various instructional methods and pedagogical initiatives (3M):

Fig. B.2.2.1d.: Instructional methods & pedagogy

Delivery

Teachers employ a variety of tools in the classroom, including intelligent interactive panels, whiteboards, projectors, and blackboards. During lectures, each student is permitted to ask any question about the subject. Faculty members answer questions from students that they are asked during lectures.

Use of e-resources:

For all courses, professors use PowerPoint presentations to help students understand the concept. Additionally, they use videos from many MOOC platforms, including those from the National Programme on Technology Enhanced Learning (NPTEL), MIT Open-Source Video, and videos from Industry Experts.

SWAYAM-NPTE	Local Cha	pter		Home	Downloads	Fee waiver +	Bulk Payment	Mentors -	NPTEL stars	Logout
SPOC				Manage	e College	and SPOC	Profile			
mage	College Profile	SPOC Profile	Req Letter	Ack Letter						
Y. MULLA SAMINA ARVIND GAVALI COLLEGE OF ENGINEERING	College Address				College	e Profile				
	GAT NO. 247,PA	NMALEWADI, V	ARYE							
SPOC Timeline	SATARA									
	MAHARASHTR	LA								
SPoC Conference Support Request	Contact No: 8482	2875175								
	Alternate No: 89	75981500								
LC Profile Changes Request	College Id : 521									

Fig. B.2.2.1e.: Swayam NPTEL Local Chapter

Collaborative Learning:

- Collaborative learning is the educational strategy that makes use of groups to improve learning by cooperating. Learners who are in groups of two or more collaborate to solve issues, finish tasks, or understand new ideas. It encourages hearing other people's points of view, listening to criticism and suggestions, and improving cooperation while also fostering public speaking and active listening abilities.
- The curriculum covers topics including seminars, mini projects, and major projects, where groups of three to five students are created and a mentor is assigned to oversee and guide the progress of the work.
- The approaches utilized for group learning are as follows:
 - 1. Small modules are divided into project work, and a subset of students work on various modules.
 - 2. In groups of 3-5 students, preparation activities for seminars and PowerPoint presentations were also carried out.
 - 3. In a group of 3-5 students, laboratory experiments are carried out for a subject like IoT.

4. Moodle is a significant ICT project of the Mechanical department that is helpful for group learning. Quiz, assignments, and resource sharing are among the many activities carried out online.

→ C A Not secure 103	159.152.195/moodle/course/index.php?categoryid=80			e 🛧 🛨 🖬 🚳
■ AGCE				You are not logged in. (Log in)
S.Y.BTech				
Home / Courses / MECHANIC	AL ENGINEERING / S.Y.BTech			
	Course categories: MECHANICAL ENGINEE	RING / S.Y.BTech	٠	
Search courses				h Support all
SEM-III				P. Experio en
2021-22				
2022-23				
2023-24				
SEM-IV				

Fig. B.2.2.1f.: MOODLE Web

Project Based Learning:

• During the period of study, many real-time projects are given to the students on the latest technologies and they are guided by faculty members. In the seventh and eighth semesters, a final year project is developed by a group of students. For some academic courses, students have been encouraged to do some projects



Fig. B.2.2.1 g.: Project Demonstration

Expert Lectures:

• Experts from Industries and renowned academic institutions are regularly invited to deliver Guest/Expert Lectures for our students

Virtual Learning:

- Virtual laboratories: Faculty members use virtual laboratories of different IITs to conduct some experiments beyond the syllabus of the respective laboratories. Instruction manuals about the conduction of experiments are given in virtual labs, students follow these instruction materials to complete the experiments.
- Online teaching through MS Teams, Google Meet, and Zoom: Faculty members use software like MS team, Google meet, zoom, etc. to take lectures, tutorials, and laboratories online. Some faculty members also run their own created video lectures, NPTEL, and YouTube videos during online lectures using MS teams, Google meets, and zoom.



Fig. B.2.2.1 h: Online Learning on Google Meet

C. Methodologies to support weak students and encourage bright students(4M)

Departments have a proper mechanism to support the weak-performing student as well as encourage bright students. Identification of weak and bright students is carried out by considering their previous academic performance and feedback from Guardian Faculty members. For every batch of 20 students, one faculty is appointed as a guardian faculty member (GFM) who takes care of all these students as a guardian. This faculty member listens to all personal problems of student, council them, and help them to sort out their issues. Based on counseling department identifies areas of improvement and do the necessary plan which involves remedial classes, improvement test, and extra assignment, this enables the weak students to participate and perform better in understanding the concepts, internal assessment, and university exams.

// Academic Calendar , Term - II PERSONAL DETAILS (2022-23) Suggestion Name of Student - Matkay Akansha D TARUNAI - 2023 Address - At - post Vikhale 5.30 Tal-Konegoan Dist soctara 04 23 8857819880 Durdenid Mobile No. 04 13 9910584685 Parent Monthle No. 04123 Parents Occupation Farmen 04/23 E-mail akanshamatkar 168 gmail com 2114123 018-4-23 Branch Mechanica **GFM Signature** AB Blood Group -16-4-23-National level tech TY-Blech Class nical project competition. co-ordinated participant. 305 Roll Not-GFM Name - DX - SAT Bellon 20-4-23 to 21-4-23 . portici-GFM Mob No. 9962604 pate in poster 4 project Note: + Students having attendance mo competition at spur Institute Scholarship college Malegoan Laptop / Tablets are allowed during practical for academic purpose. 3rd Saharday **GFM Signature** 5017 (B)

Day IO:30 IO:30 II:30 I	Class :	me Table ,Term - II	Time Table ,Term - II
SAT Name of Subject TH TW POE Abbreviation Name of Subject TH TW POE MD-IL Machin e Design-IL Mr. Kamble · A·V 90674932.89 MP-IL Machin e Design-IL Mrs. Alatkar M·N 915841616 MP-IL Manuf · process Mr. Patil · S·P · 820832735 OTPM PLM Product · Lative Dr. Gbolap · A·B 976768812 MD-C Metrology · publity Mr · kamble · R·R, 994444189	Day VIO'3 MON TUE MP1 WED AP THU MP1 FRI PLM	to 10:30to III Sota 10:30to C2C MO-II II PLM SO titude MQC C MD-II QTPM O QTPM MD-II	110 to 0.10 to 310 to 3130 to 430 to 210 310 3130 430 530 210 310 3130 430 530 MGC MP-II Moject 500 70 MGC S ports MP-II MP-II MP-II MGC PLM TPO . MOject 100 MGC PLM TPO . . MOject .
	SAT Subject Abbreviation MP-IL MP-IL MP-IL OTPM SUBJECT MP-IL MP-IL MP-IL MP-IL MP-IL MP-IL MO MP-IL MO MP-IL MO MP-IL MO MD-IL MO MO MD MO MO MD MO MD-IL MO MO MD-IL MO MO MO MO MO MO MO MO MO MO	Name of Subject TH TW POE Achin e Design-II anuf · process anuf · process	Name of Faculty Contact Number Mr. Kamble · A·V 9067493239 Mrs. Alatkar M·N 9158416167 Mr. Patil · S·P 8208327353 Dr. Gbolap · A·B 9767638123 Mr. kamble · R. 9944441891

Fig. B.2.2.1 i: Sample Student Progress Diary



Fig. B.2.2.1 j: Sample Notice of Remedial Classes

Date Ob. June 2023 Heat Transfer Or. Schenkhalm D. Schenkhalm Schenkhalm D. Schenkhalm Schenkhalm <thschenkhalm< th=""> Schenkhalm</thschenkhalm<>	Date Ob. June 2023 Heart Transfer Dr. Sonai/Natian 0.00 parts DAV Tyrenday Subject Faculty Harms 3.00 parts DAV Tyrenday Subject Faculty Harms 3.00 parts Dave Oil June 2023 Applied Faculty Harms 3.00 parts Dave Oil June 2023 Applied Mr. Ghadage 5.3 1.00 parts Dave Weedwanday Subject Faculty Name 9.00 parts Dave Of June 2023 Applied Dr. Cologe A.B. 3.00 parts Dave Of June 2023 Material Science and Metaburgy Dr. Cologe A.B. 3.00 parts Dave Thurnday Subject Faculty Name 9.00 parts Dave Of June 2023 Thermodynamics Mr. Path 5.P. 3.00 parts Dave Of Aure 2023 Thermodynamics Mr. Path 5.P. 3.00 parts	 11 30 pr 2 50 pr 3 00pr ME 11 30 pr 2 50 pr 0 5 00pr ME 11 30 pr 11 30 pr 11 30 pr 11 30 pr
Date Ob. June 2023 Free Transfer Dr. Sconstitution 1.00 pmt to 2.50 pm 200 ONY Trending Singert Assumption Mr. Chadage 3.3. Singert Singert <td>Date Of-June 2023 Heart Frequence Dr. Sonachtalam 1.00 pmr. OAV Terrindry Seligert Faculty Name 1.00 pmr. Date Disting Seligert Faculty Name 9 st.11 pm. Date Disting Seligert Faculty Name 9 st.11 pm. Date Distingert Faculty Name 9 st.11 pm. 9 opt.11 pm. Date D7 June 2023 Material Science and Dr. Gholage A.B. 0.00 pm. 9 opt.11 pm. Date D7 June 2023 Material Science and Mr. Dr. Gholage A.B. 0.00 pm. 3.00 pm. Date D8 June 2023 Thermodynamics Faculty Name 9.30mr.10 st.300 pm. Date D8 June 2023 Thermodynamics Mr. Patit S.P. 3.00 pm.</td> <td>a 2 50 pr a 5 00pn ME a 2 50 pr a 5 00pm a 5 00pm ME 11 80 pr a 2 50 pr</td>	Date Of-June 2023 Heart Frequence Dr. Sonachtalam 1.00 pmr. OAV Terrindry Seligert Faculty Name 1.00 pmr. Date Disting Seligert Faculty Name 9 st.11 pm. Date Disting Seligert Faculty Name 9 st.11 pm. Date Distingert Faculty Name 9 st.11 pm. 9 opt.11 pm. Date D7 June 2023 Material Science and Dr. Gholage A.B. 0.00 pm. 9 opt.11 pm. Date D7 June 2023 Material Science and Mr. Dr. Gholage A.B. 0.00 pm. 3.00 pm. Date D8 June 2023 Thermodynamics Faculty Name 9.30mr.10 st.300 pm. Date D8 June 2023 Thermodynamics Mr. Patit S.P. 3.00 pm.	a 2 50 pr a 5 00pn ME a 2 50 pr a 5 00pm a 5 00pm ME 11 80 pr a 2 50 pr
ON Threadaw Statlage C Faculty Harman 3 Object to 3 - 000r Three Oil June 2023 Thermodynamics Mr. Chadage 5.4 3 Object to 3 - 000r ON Description Statlage C Against Mr. Chadage 5.4 3 Object to 3 - 000r ON Description Statlage C Mr. Chadage 5.4 3 Object to 3 - 000r ON Description Statlage C Statlage C 3 Object to 3 - 000r ON Description Statlage C Statlage C 3 Object to 3 - 000r ON Description Statlage C Statlage C 3 Object to 3 - 000r ON Thermodynamics Mr. Patt 5.4 Statlage C 3 Object to 3 - 000r ON Transfer Statlage C Statlage C 3 Object to 3 - 000r 1 - 000r ON Transfer Statlage C Transfer Statlage C 3 Object to 3 - 000r 1 - 000r 1 - 000r 0 - 000r	OAV Toendary Subject Faculty Name 3 c0/pmin Pare Obi June 2023 Thermodynamics Mr. Ghadage 3.5. 1.000 pmin DAV Wednarding Thermodynamics Mr. Ghadage 3.5. 1.000 pmin DAV Wednarding Singlect Faculty Name 9.000 pmin DAV Wednarding Singlect Faculty Name 9.000 pmin David David Singlect Faculty Name 9.000 pmin David Singlect Faculty Name 9.000 pmin 3.000 pmin DAV Hoursday Singlect Faculty Name 9.000 pmin 3.000 pmin DAV Hoursday Singlect Faculty Name 0.000 pmin 3.000 pmin David 08 June 2023 Thermodynamics Mr. Patil S.P. 3.000 pmin 3.000 pmin	0 1 00pm ME 11:30 pm 0 2 50 pm 0 5 00pm ME 11 30 pm 0 2 50 pm
OAV Turning Subject Parsity Hame 100 mm 1.4 so produced Date Observe 2023 Thermodynamics Mr. Challege 3.3. 200 mm 1.4 so produced Date Observe 2023 Mattercal Science and Grid Challege 3.3. 200 mm 1.4 so produced Date Observe 2023 Mattercal Science and Grid Challege 3.3. 200 mm 1.4 so produced Date Observe 2023 Mattercal Science and Grid Challege 3.3. 200 mm 1.4 so produced Date Observe 2023 Mattercal Science and Grid Challege 3.3. 200 mm 1.4 so produced Date Observe 2023 Mattercal Science and Grid Challege 3.3. 200 mm 1.4 so produced Date Observe 2023 Mattercal Science and Mr. Pattercal Science and 200 mm 1.4 so produced Date Op June 2023 Mattercal Science and Mr. Pattercal Science and 300 mm 1.0 so produced Date Op June 2023 Mattercal Science and Mr. Swapinal Science and 300 mm 1.0 so produced Date Op June 2023 Mattercal Science and Mr. Swapinal Science and 300 mm 1.0 so produced Date Op June 2023 Mattercal Science and Mr. Swapinal Science and 300 mm 1.0 so produced Date Op June 2023 Mathermatics in Mr. Swapinal S	OAV Teendary Subject Paciful Annue 101 Darke 00 June 2023 Applied Mr. Ghodage 3.5 2 20an 15 DAV Wednesday Statiget Faculty Name 9 30an 15 DAV Wednesday Statiget Faculty Name 9 30an 15 DAV Wednesday Material Science and Heraburgy Dir Gholage 3.8 2 00g pm 1 DAV Thursday Subject Faculty Name 9 30an 15 DAY Thursday Subject Faculty Rame 3 00g pm 1 DAY Thursday Subject Faculty Rame 9 30an 15 Care 09 June 2023 Thermodynamics Mr. Pati S.P. 3 00g pm 1	ME 11:30 pr 0 2:50 pr 0 5:00pr 4E 11:30 pr 0 2:50 pr
Date Oil Applied Presendsynamics Mr. Charlenge 3.1 Presentsynamics Presendsynamics CAV Weinhandby Sinipert Internet/Sinipert Faculty Rame Fillingert Presendsynamics Faculty Rame Fillingert Presentsynamics Fillingert Presentsynamicsynamics Fillingert Presentsynamics	Date Oil June 2023 Applieit Thermodynamics Mr. Ghadage 3.5. Solution 2020 DAY Wednanday Skilject Facility Anne Ott Date 07 June 2023 Material Scenics of Metalorgy On Chalage A.8. 3.000m to 3.000m to Thermodynamics Date 07 June 2023 Material Scenics of Metalorgy Faculty Name The 3.000m to 1.000m to 3.000m to Date 09 June 2023 Thermodynamics Mr. Patil S.P. 3.000m to 3.000m to	11 30 pm a 2 50 pm a 5 00pm dE 11 80 pm a 2 50 pm
Date On Joint 2023 Thermodynamics Proceedings 3:: South 1:: South 1::: South 1:: South 1::: South 1:::<	Date Oil Jume 202.8 Thermodynamics Mr. (onsaring a S. 1.20) 1.20 OxV Wetwardsy Statiject Faculty Name 9.71 OxV Wetwardsy Statiject Faculty Name 9.71 Oriz 07 Jonne 2023 Metersial science and Metersial science and Statigect Dir. Gholag A.B. 3.000 pm till 3.000 pm till 3.000 pm till 3.000 pm till 3.000 pm till 3.000 pm till Date 09 June 2023 Thermodynamics Mr. Patil S.P. 3.000 pm till 3.000 pm till	4E 11 80 pm 2:50 pm
Date Wethermendagy Subject Faculty Name Difference Date D7 June 2023 Materialy Science and Materialyage Dr. Cholag A.B. B.Contro 5.1.5.85, pt 1500 pt 10:2.500 pt 1500 pt 1	DAY Wednanday Subject Faculty Name 17 Date 07 June 2023 Material science and Metablorgy Dr. Gholap A.B. 9.30m 10 DAY Thursday Statject Faculty Name 9.00m 10 DAY Thursday Statject Faculty Name 9.00m 10 DAY Thursday Statject Faculty Name 9.00m 10 Date 09.June 2023 Thermodynamics Mr. Patit S.P. 3.00 gm to 3.00 gm to	4E 11.30 µm
Date 07 June 2023 Mattering bissing and Matalings 0: Cholag A.B. 2:00m 10: 11:30 pr 3:000 mt 0: 2:00 pr 3:000 mt 10: 2:00 pr 3:000 mt 10: 2:00 pr 3:000 mt 10: 2:00 pr 3:000 mt 10: 2:000 pr 3:000 pr 3:000 pr 10: 2:000 pr	Date O7 June 2023 Material Science and Metaborgy Dr. Gholap A.B. 0.500 pmt 3.000 pmt DAY Thursday Subject Faculty Rame 3.000 pmt Care 09 June 2023 Thermodynamics Mr. Patil S.P. 3.000 pmt 3.000 pmt	11.30 pm
Optime OP June 2023 Monthly Statistics Or. Cholag A.B. LOG game to 2.50 gam Charter Thirtenday. Surfagent Surfage	Date Of June 2023 Interfault Science and Metablungs Dr. Gholag A.B. 1.000 pm tr 3.000 m tr DAY Thursday Subject Faculty Rame 3.000 m tr Carler OB June 2023 Thermodynamics Mr. Paul S.P. 3.000 pm tr Carler OB June 2023 Thermodynamics Mr. Paul S.P. 3.00 pm tr	0 2:50 pH
DAT Humsday Boldpart B	DAY Thuriday Subject Faculty Name 700 DAY Thuriday Subject Faculty Name 70 Date 08 June 2023 Thermodynamics Mr. Patil S.P. 1.00 pm ts 3.000 pm ts	
OAT Thursday Subject Faculty Name Titut	Date DB June 2023 Thermodynamics Mr. Patil S.P. 3.00 pm to 3.00 pm 10 3.00 pm	a 5:00pm
Conte OB June 2023 Thermologynamics Mr. Parts 5.P. Bacteria 5.5 (Optimised 5.5 (Ptimised 5.5 (Clate 08 June 2023 Thermodynamics Mr. Patil S.P. 3.00 pm ts 3.00 pm ts	All.
Control Other Mark	3.00 pm to 3.00 pm to	11 10 500
DAV Friday Exclusion Friday Friday<	2.004PM M	5 OCH
Date Of June 2023 Engineering Mathematics: Mr. Swapnabi Shinde 9.50m to 2.50m 3.00 mt to 2.500 mt Abart plantar: Phate Abart plantar: Phate Abart plantar:	CANY FRIDAY SUBJECT FAILURY NAME	AE
Date 09 June 2013 Mathematics Methods 1.00 pm to 2.50 pm Shate Antiberratics Mathematics Methods 1.00 pm to 5.00 pm Shate Antiberratics Methods Methods Methods Methods Shate Methods Methods Methods Methods Methods	9 Dam to	11:10 00
And part to 500 pm	Date 09 June 2025 Mathematics III Ms. Swapnah Shinde 2:00 pm to	> 2:50 pm
	((avaoina)))	
	2000	

Fig. B.2.2.1 k: Sample Remedial Classes Time Table

Brighten students are encouraged to learn content beyond the syllabus through MOOC platforms NPTEL courses, Coursera also MIT Open-source online education. Institute has a separate NPTEL Local Chapter (LC-ID 521), through which various advanced courses in various sectors like project management, software engineering, etc. are made available to bight students.

This enables the bright students:

- a) Update themselves with the latest tools and technologies
- b) Demonstrate critical thinking and take up innovative projects
- c) Taking up higher studies in the field of research and development enhances their skill and managerial quality to become successful entrepreneurs/employees.

SWA	YAM	NPTEL Local	Chapt	er			Home	Downle	oads Fe	e waiver 🗸	Bulk Paymo	nt Mento	n +	NPTEL stars	Logout
					Jan-/	Apr	2023 En	rollmer	nt details						
Excel	Print				College								Searc	h: mech	
S.no	Name	¢ Email Id	Course 🌐 Id	¢ CourseName	Roll Number	¢	Mobile () Number	¢ City	Profession	Qualification	Degree	Department	Study () Year	() Motivation	Timeline
8	Bhosale Abhijeet Sunil	abhijeetbhosale1825@gmail.com	noc23- me23	Convective Heat Transfer	3001		+91 70389 52320	Satara	student	bachelor4yr	btech	Mechanical Engineering	3		Jan-Apr 2023
9	Bhosale Abhijeet Sunil	abhijeetbhosale1825@gmail.com	noc23- me55	IC Engines and Gas Turbines	3001		+91 70389 52320	Satara	student	bachelor4yr	btech	Mechanical Engineering	3		Jan-Apr 2023
10	Abhijit sarjerao shinde	abhijeetshinde7007@gmail.com	noc23- mel4	Product Design and Manufacturing	3001		+91 87664 19950	Kavathe Mahankal	student	bachelor4yr	btech	Mechanical Engineering	2		Jan-Apt 2023
11	Abhishek Sanjay Chavan	abhishekchavan392@gmail.com	noc23- de01	Fundamentals of Automotive Systems	4082		+91 87885 29075	Karad	student	diploma	btech	Mechanical Engineering	4		Jan-Apr 2023
12	Abrar Jahangir	abrardange2@gmail.com	noc23- de01	Fundamentals of Automotive	4076		+91 81492 89313	Karad	student	diploma	btech	Mechanical Engineering	4		Jan-Apr 2023

Fig. B.2.2.1 l: Sample NPTEL Enrollment



Fig. B.2.2.1 m: Sample NPTEL Certificate

Department announces every year the "Best outgoing student" of the program. Selection is carried out based on one's continuous quality performance in all sorts of activities which include curricular, extracurricular, internships, competitions, innovative projects undertaken and completed, MOOC courses studied, and university marks, following table shows the last three years' best outgoing students.

Sr. No.	Name of Student	Academic Year
1	Rushikesh Ghorpade	2022-23
2	Aishwarya Salunkhe	2021-22
3	Sharad Asawale	2020-21
4	Sonali Pisal	2019-20

Table B.2.2.1 a: Best outgoing student

D. Quality of classroom teaching (3M):

- Teachers are properly assigned courses and practical sessions before the semester even begins, which enhances both the quality of the information students get and their performance.
- Before the start of the semester, every faculty member prepares lesson plans, session plans, and lecture notes. They then post the study materials on MOODLE.
- Faculty members use common textbooks to prepare their notes. When creating the session plan, chapters from these textbooks are emphasized so that students are compelled to consult them.
- To keep students' interest throughout lectures, professors employ brainteasers, quizzes, and engaging movies and Power Points linked to the subject.
- Various educational efforts and instructional techniques & tools are used to engage the student in learning



Fig. B.2.2.1 n.: Student's Learning on Intelligent Interactive Panel

E. Conduct of experiments:

All laboratories of the Mechanical engineering department are equipped with enough Mechanical equipments

- 1. Each student performs experiments on set up.
- 2. All laboratory experiments have accompanying laboratory manuals.
- 3. Before the laboratory session, students are urged to read up on the theory underlying the experiments and the steps necessary to carry them out.
- 4. A concerned professor explains how the experiment was conducted.
- 5. It is suggested that students consult laboratory manuals for assistance.
- 6. A faculty member supervises and assists each student while they undertake experiments.
- 7. The laboratory performance record is to be submitted by the students for evaluation.

8. Internal marks are given according to the experiment's understanding, neatness, and timely journal submission.



Fig. B.2.2.1 o.: Laboratory Session

F. Continuous Assessment in the laboratory (3M):

Laboratory Evaluation:

A continuous assessment system is implemented for the assessment of laboratory work. Assessment is carried out for each student experiment in the laboratory as per demonstrated by the course in charge. This assessment is done based on

- 1. Timely Submission
- 2. Neatness
- 3. Understanding

Following is a sample laboratory work assessment sheet.

		Amilated	Contin	HIGHL	Anno		ont Shee	I (CA	53					
12210		Jathov	Ba	in a	-			T	. No.	s.homica	1			
Roll	ne of Gandidate	301			Su	Subject			Manufacturing Because					
flep:	-	Exp Name	-	-	Ditte	101		Laboratory Assessment						
				-	Clonic	CENT	Timety submission (02)	Neatro	sis Understa	nding Tot	al Fac	with with		
Ô	Slody 1	1 bypan	al ch	pes .	2.8.12)	dens.	1	0	14	*	2			
Þ	Colling >	alia or	d ad	101	44.14	decis)	2	3	8	3	1(
_	ngg/e an	chlque t	way 1	Artic and					-		12	A		
Ż	colling h	Thank an .	rus have		1.15.11	oral .	12-1-1 	3	4	9	D.	_		
	Summer g	present			-							-		
		CA1			Aver	age m	arks of lates	rolory e	spennent (10)				
43	Portrat n	adding -	pole		12/2/	2.4	3	3	3	8	100			
2	Part poger	eller yer i	SNC 19	12	18/4	123	1	2	3	6	1			
-	ering Ca	5 11 140	(P				-			-		x		
-	Rait mit	ianur 1	5 60	2	* 100 N 141	1.5	2-	0		×		-		
2	Part pr	Proming .	the o	N.C	2.3 / 3	123	2	2	2	-7	-	-		
	milling "	Ve any	1 0	§.		_					1			
-		CA2			Aven	ige mi	arks of labo	natory er	xperiment i	10)	-	-		
	Laboratory Assessment (10)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)		Laborat	ory sent	Attendance (05)	Practical P	Alock Oral	Telev		
AT	9	4	9	The .	26	CA2	(10)		1.	(10)	(00)	01		

Fig.2.2.1 p. Sample Laboratory Evaluation Sheet

G. Student feedback on the teaching-learning process and actions are taken (6)

The department collects student feedback to identify areas for development. The Head of the Department (HoD) also examines feedback to evaluate faculty performance. Before course completion, a prescribed structure is used to collect student feedback on the course and the faculty member instructing it (attached below).

Third Year Div B Feedback Month : April 2022 -Total Responses : 45 Total Class Strength : 68 Feedback Percentage : 66,17%

FACULTY - SUBJECT DISTRIBUTION

Sr. No	Subject	Abbrev.	Name of Faculty	Abbrev
01	Machine Design-II	MD-II	Mr. Kamble Ankur V.	KAV
02	Applied Thermodynamics -II	ATD-II	Mr. Shivade A.S.	SAS
03	Manufacturing Processes- II	MP-II	Mr. Matkar Mahesh V.	MMV
04	I.C. Engines	ICE	Mr. Ghadage Suraj S.	GSS
05	Renewable Energy Sources	RES	Mr. Kadam A. A.	KAA
06	Solar Energy	SOLAR	Mr. Tambe Pratik M.	TPM

2.How well did the teachers prepare for the classes?

с. 4 н. 2			н 4 с.	1			
60.0	ATO I		1054	ic‡			DOCNIN:
Faculty	KAV	SAS	MMV	GSS	KAA	TPM	- %
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	
Thoroughly	20	15	16	20			35,50558
Satisfaction	19	24	24	16	24	23	49.536.00
Poorty					10		12.50250
indifferently		0			1.1	1	1.481481
Wont Teach at all	,						1.481481

3.How well were the teachers able to communicate? . A track the All and the All

10	25			ai.	1	- 16		
2.2	4 3 2 8008		12	7 2 2 10	i li	2	3 1 2048	
Faculty	KAV	SAS	MMV	GSS	KAA	TPM	*	
Subject	MO-II	ATD-II	MP-II	ICE	RES	SOLAR	1	
Always Effective	17	13	12	13	10	15	29.62963	
Sometime effective	20	-23	22	21	24	24	49 6296	
Just Satisfactory	2	5		7	*	3	11.6516	
Generally Ineffective	2	2	4	2	2	1	3 703704	
Very Poor Communication	1	2	2	2	2	1	5.165165	

4. The teacher's approach to teaching can best be described as · Constant arvey Gent afford *Fair Afford



NBA e-SAR 2022-23

5. Fairness of the internal evaluation process by the teachers . Analysian alduary administrative address

	42 47		4 2 0 30%	i		2	DOLAR
Faculty	KAV	NPR	MMV	GSS	TPM	TPM	*
Subject	MD-II	ATD-8	MP-II	ICE	RES	SOLAR	1
Always fair	18	- 12	-11	14		13	28.14815
Usually	18	23	22	20	21	22	47,03704
Sometimes	y.		0		11		17,03704
Unfair			2	6	2		7,777779
Never	0	.0	0	0	0	Ď	6

6. Was your performance in assignments/extra practice test discussed with you? •Newy.tre #Deaty *Oceanersty #them

27				-	-11		10
112	ł	11	1	*	2	122	123
104	ATD	0	10H	or		80	SCLIFF.
Facuity	KAV	NPR	MMV	GSS	TPM	TPM	14
Subject	MD-II	ATD-II	MP-8	ICE	RES	SOLAR	1
Every time	21	-17	17	17	15	18	34.68639
Usually	14	18	15	20	.20	19	39,25926
Occasionally	4		10	1	5		12 29239
Rarety	3	1		1	3	7	
Never	2	2		2	- 2	2	4.014015

7. The faculty takes active interest in promoting internship, student exchange, field visit opportunities for students.

	Ĩ		15 2 4 2	2 ¹⁶ 1		4	8 1 2 1
104	ATD		107.01	KE	-		DOLAN
Faculty	KAV	NPR	MMV	GSS	TPM	TPM	16
Subject	MD-8	ATD-II	MP-8	ICE	RES	SOLAR	1
Regularly	14	-14	20	13	81	14	37,85155
Often	ur.	-18	15	. 16	19	19	3/ 77776
Sometimes		10	7	10	10		20.37237
Rarely		2		2	3	2	5.555556
Never							1 44444

9. The institute provides multiple opportunities to learn and grow

• Droph April • Drage • Drage • Dropy Drages

	i.		22 10 1 1 1				10
Faculty	KAV	SAS	MMV	055	KAA	TPM	SCX.AR
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	
Strongly Agree	9						14.4488
Agree	22	25	25	28	22	28	33,3333
Neutral			10		-13	10	20.7427
Disagree		3	1		2	1	4.0000
Strongly Disagree	4	3	3	3	3	3	7.03733

10. Teachers inform you about your expected competencies, course outcomes, and program outcomes •Emytem #linety +Dimensity #Rev #Rev

10 10	n 0		52 (I	Ϊ.	11 a		Ϊ.
ACC-1	ATD	1 +	10-1	icit i	- I	1.4	DOLAN .
Faculty	KAV	SAS	MMV	GSS	KAA	TPM	%
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	
Every time	19	17	16	16	19	17.	39.25928
Usually	15	17	U	20	17	12	37,40741
Occasionally	4	1	11	7			13.55558
Rarely	1	. 1	0	0.		1	1401401
Never	0	8	0	0	0	0	

11. Your mentor does a necessary follow-up with as assigned task to you . Dary time #Usually #Docationally #Rankly #Estern have mental

			22	0	12		22
1.1		11	1 1 1 L	i i i	1.0	212	2)
NDH	67	D-H	10-0	108		es.	60.44
Faculty	KAV	SAS	MMV	GSS	KAA	TPM	5
Subject	MD-4I	ATD-II	MP-II	ICE	RES	SOLAR	
Every time	18		13	.13	12	14.	30.37037
Usually	18	23	72	24	25	72	49.62963
Occasionally			4		5	6	12 96296
Rarely	3	1	3	1	14	2	4,074074
I don't have mentor		4			2		2 942963

12. The teacher illustrates the concepts through examples and applications •Every time =Dealey = Dealey = Revery = Nover

10

2.962963

AD-4	2	2 2	17 1 2 - 2 10 1 - 2	İ.	ļ	7 2 2 10	BOLAN
Faculty	KAV	SAS	MMV	GSS	KAA	TPM	5
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	1
Every time	\$7	17	21	20	10	78	41.85165

Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	
Every time	57	17	21	70	10	78	41,05165
Usually	14	18	12	15	14		12.22222
Occasionally	51				7	u	18.888AB
Rarely	+	2	2	.0		0	2.062963
Never	2	2	2	2	2		4.074074

13. The teacher identifies your strengths and encourage you with providing right level of challenges Puty Pleasanity Partialy Hillighty Hillight

19	20	15 14	20		17 14
9 9 			÷ 1.	7	
MDHI	ATD-E	MP-8	CE CE	RES	SOLAR

Faculty	KAV	NPR	MMV	GSS	TPM	TPM	%
Subject MD-II	MD-II	II-DTA II-DN	MP-II	ICE	RES	SOLAR	
Fully	10	12	12		¥ :	11	22.22222
Reasonably	19	20	15	20	10	17	40.74074
Partially	11	9	14	14	11	14	27,03704
Slightly			1	0			2,962963
Unable	4	3	3	3	4	2	7.037037

14. Teachers are able to identify your weaknesses and help you to overcome them ·Derytime ·Usually ·Discountarily ·Parety ·Herery

% KAV NPR MMV MD-II ATD-II MP-II GSS Faculty TPM TPM Subject MD-II Every time 15 Usually 13 ICE RES SOLAR tt 26.2963 12 .12 11 10 16 18 .16 16 17 34,81481 Occasionally 28.51852 12 14 13 12 15 15 Rarely

2

3

3

4

.

12

1

3

0

5

Never

1

3.
15. Ti monitor	he institution ing, review a te	n makes eff and continu aching lear	fort to en tous qua ming pro	igage st ility imp icess.	udents i rovemei	in the nt of the	
	 Strangly Agree 	wigns alast	tul #Deapre	*Story)	Chargese .		
-	28	-	24		20	25	
	12.0	• • • • •	1	-	1.2		
MD-H	ATTHE	535-31	CK.	-	RES.	50	LAR
Faculty	KAV	SAS	MMV	OSS	KAA	TPM	%
Subject	MD-II	ATD-II	MP-8	ICE	RES	SOLAR	
Strongly Agree	10		10	10			20.37037
Agree	23	26	22	24	28	25	54.81481
Neutral	5	1	8		5		12.96296

4 4 4 9.259250 1 2.592593

.

16. The institute/ teachers use student-centric methods, such as experiential learning, participative learning and problem-solving methodologies for enhancing learning experiences To a great order Mitabergin Blome What B Very Little Black at all

.

Disagree Strongly Disagree

5

10 10 10 1 2	24 12 13	10 1	2 4	- 1920			1) X. 1
BIESHI.	STR-8	8.891.1	4	808	NES		DOLAR
Faculty	KAV	SAS	MMV	GSS	KAA	TPM	26
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	
To a great extent	10	7	10		7		18.51852
Moderate	18	24	23	25	20	24	40.02003
Some What	:10	u.	0	8	14	- 11	23.7057
Very Little		+	2	3	2	1	5.185185
Not at all		—————————————————————————————————————	1.00	1.1	1.5	1.1	

17. Teachers encourage you to participate in extracurricular activities

Immy Age
Immy Age
Immy
Imm

	10 11					-	4. 22
MD-F	ATD-R	1814		ca	AEE		ets, AR
Faculty	KAV	SAS	MMV	GSS	КАА	TPM	*
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	1
First safe August							

Subject	MD-II	AID-II	MP-0	ICE	RES	SOLAR	
Strongly Agree	13	10	11	0	11	10	22,7007
Agree	17	25	23	18	20	21	44:07407
Neutral		10	6	10	7.		19.62963
Disagree	3	2	2	1		2	5.185185
Strongly Disagree	4		3	4	3	3	7,407407

18, Efforts are made by teachers to inculcate soft skills, life skills and employability skills to make you ready for the world of work

4 ľ

ND-I	ATOI	105-10	-	KOE.	1102	50	100
Faculty	KAV	SAS	MMV	GSS	KAA	TPM	*
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	1
To a great extent	9	9	9	7		7	18.14815
Moderate	20	24	25	23	24	27	52.96296
Some What	0	7	7	10		8	17.77778
Very Little	6	3	2	3	2	3	6.606467
Not at all	1.1.1.1.1	100	1.00			1.1	1.2.2.2.2.2

	pro	ojector, M	ultimedia	, etc while	teaching	ir.	
	-	Control of Control	15		th.		44
	1		10. 10.	1 m M			10
		4			<u> </u>		
Faculty	KAV	SAS	MMV	GSS	KAA	TPM	%
Subject	MD-II	ATD-II	MP-II	KE	RES	SOLAR	1.1.1
Above 90%		10	11	12	11	12	20.74074
70-89%	11	18	19	11	15	10	25.38558
50-69 %	12		11	12	11	14	21.48148
30-49 %			5			6	10.37037
below 29%	5	2	3	3	3	3	5.185185

19.What percentage of teachers use ICT tools such as LCD

20. The overall quality of teaching-learning process in your institute is very good •2tmg//aps *saw *family *Dagse #2tmg//bagies

27 21 6 10 7 7 2 2	H 11	10 12 2 4	-1.			-	n 2 1
ADH /	ACD-8	par-st	10	ε	RES		aun
Faculty	KAV	SAS	MMV	GSS	KAA	TPM	%
Subject	MD-8	ATD-H	MP-II	ICE	RES	SOLAR	1
Strongly Agree		1	10	7			14.4444
Agree	22	21	19	25	30	21	30 2 50 28
Neutral	10	34	12	10	78	11	22.96298
Disagree	2	1	2	2	2	2	4 44.000
Strongly Disagree		1			2	1	2 777777

Sub	Faculty	Appreciation	Suggestions for improvement
MD-II	KAV	Performance discussion of assignments, Identification of Strength and Weakness of Students	Participative learning and problem solving, Field Visits
ATD-II	SAS	Use of ICT, Follow up of task	Review and continuous quality improvement, Multiple opportunities to learn
MP-II	MMV	Preparation for class, Efforts to inculcate soft skills	Identification of Strength and Weakness of Student, CO-PO discussion
ICE	GSS	Illustration of concepts through examples, Follow up of task	Identification of Strength and Weakness of Student, Multiple opportunities to learn
RES	КАА	CO-PO discussion, Use of ICT	Identification of Strength and Weakness of Students, Participative learning
SOLAR	ТРМ	Illustration of concepts through examples, Fairness of internal Evaluation	Field Visits, Identification of Strength and Weakness of Students

Fig.2.2.1	q.	Sample	Online	Feedback	Form
-----------	----	--------	--------	----------	------

Subject	Faculty	Suggestions for Improvement	Action	Remark of HOD
MD-8	silv.	STANDALS LEVERAGE (S	plan for extra	Conduct exten
ATD-0	5.45	Tenthing planning	Prepared deaching	Plan uplas and Francis Transing
AMP IN	MMAY	Improve ist woode	troated the for easy	Use Aphaetter Parcel the eavy
-	635	Wanter and weren	s average trues	Filling the
res	864	method is especial	entralin Popie wills	Explain thepies
SOLAR	TPM	Arrange Aield visit	will plan for a	Every mosth and induining visits

Fig.2.2.1 r. Sample Feedback Action Taken

2.2.2. Quality of Internal Semester Question papers, Assignments, and Evaluation (20)

A. Process for internal semester question paper setting and evaluation and effective process implementation(5M)

Mechanical Engineering department follows the evaluation of the scheme of DBATU, Lonere.

- Internal and external exams are the main medium for PO attainment. Three tests continuous assessment test 1, continuous assessment test 2, and mid-semester examination are conducted during the semester as per the Institute Academic Calendar.
- The students are informed of the evaluation process during their orientation program itself.
- The institute forms an Academic and Examination committee for question paper quality checking, evaluation, and effective process implementation.
- Three sets of question papers for each course are prepared by the faculty members and submitted to the Academic Monitoring Committee. The committee member selects one copy based on the quality of questions and relevance to COs.
- After approval from the committee, the final paper is printed, one hour before the scheduled class test to maintain confidentiality.
- The examination department schedules the examination timetable, test invigilation allotment, and room allotment and coordinates in smooth execution of the examination. The examination timetable and seating arrangement documents are displayed on the notice board and posted on the what-app group of students.
- The questions for theory examination are aligned with bloom's taxonomy. COs and bloom's level are incorporated by the course coordinators and verified by the Academic Monitoring Committee. The duration of the test is 1 hr.
- The minimum 20% syllabus is covered before the continuous assessment test-I, the minimum50% syllabus am covered before the mid-semester examination, and the 100%syllabus is covered before the continuous assessment test-II by the course coordinator.



Fig B.2.2.2.a: Internal Question Paper Setting and Evaluation Process



Fig B.2.2. 2.b: Internal Examination Question Paper Pattern

Evaluation:

a) The faculty member evaluates the test books as per the scheme of evaluation.

b) The standard question paper solution is discussed with the students in a classroom.

c) For any genuine reason if a student was unable to perform well in the given three internal assessment tests or students are interested in class improvement, a remedial test facility is available for him/her.

d) The best of the two test marks obtained is chosen for the internal assessment marks.

e) Assignments are used to learn, practice, and demonstrate the learning goals only. As actual evaluation is based purely on an internal assessment test.

Figures B.2.2.2.e shows the sample question papers.



Fig B.2.2.2.c: Sample Examination Notice

	Arving	Gaval College of Engineering, Satara June 2022-2023 Department: Mechanical Engineering CA-2 (Objective & Descriptive) Exam TIME TABLE (12th Dec. to 17th Dec. 202	<u>Code,6545</u>) 2]	SAWKAR
Day & Date	Class	Subject Name	Objective Exam Time (Moodle)	Descriptive Exam Tim
12 December 2012	SY Blech	Engineering Mathematics- III		
	TY Block	Machine Design-I	10:00 AM to 11:59 PM	4.30 PM to 5.50 PM
11 December 2013	SY Block	Thermodynamics		4.30 PM to 5:00 PM
The processions away	TY Block	Theory of Machine -11	10:00 AM to 11:59 PM	
18 Occumber 2022	SY Bleck	Material Science and Metallurgy	10:00 AM to 11:59 PM	4.30 Plates C.00 Plat
La Unicember 2024	TV Birch	Applied Thermodynamics-III		4:30 PM to \$:00 PM
11 0	SY Buch	Fluid Machinery		4:30 PM to 5:00 PM
13 December 2014	TY Biech	Refigeration and Air conditioning / Automobile	10:00 AM to 11:59 PM	
16 December 2012	SV litech	Appititude test		4:00 PM to 4:30 PM
A DECEMBER 2022	TV Block	Appititude test	10100 ANR 10 11:59 PM	
16 December 2022	TY Buch	Reat Transfer	10:00 AM to 11:59 PM	4:30 PM to 5:00 PM
17 December 2023	TV Htech	Hieman resource Management/ Solar Energy	10:00 AM to 11:59 PM	10:30 am to 11:00am
ote: Theory CA-3 Exam will be Condu- ta per guidelines from OBATU , if any Uniden fails to appear teo Opprovide may be given. United to appear teo Opprovide the second of Second December of the second Mr. Radiant Anjun A.	ched in offline mode only. C al Rudenta should attroot i t, then ha/she will be const (the ha/she will be const	A taem (Digettive) Will be conducted Online through MODOL for CA 2 fairn as par the above schedule. Sered as absent.	Jan Hog Dr. Shohy A. E. HATTON	Principal Dy. Wiles Phatfande

Fig. B.2.2.2.d: Sample Examination Time Table

Ð	DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LO Arvind Gavail College Of Engineering, Satara Odd Sem 2022-23 <u>CA-2 Examination (Descriptive) – December 2022</u> Course: B. Tech in Mechanical Engineering Sem: V Subject Name: Applied Thermodynamics Subject Code: Max Marks: 12 Date ₅ , 14 /12/2022 Duratio	NERE BTMC506 n:- 30 Min.	SAWKAR
	Instructions to the Students: 1. All Questions compulsory 2. Assume suitable data if necessary 3. Figures to right indicate full marks 4. Use of Programmable Calculator is Allowed		
Q1.		(Level/CO)	Marks
Q.2	Solve Any one of the following.	8	6 Marks
(A)	Differentiate between Jet and Surface condensers	CO3	
(B)	Illustrate different types of nozzles in detail.	CO3	i k
Q, 3	Solve Any one of the following.	;i	6 Marks
(A) (B)	In a De- Laval turbine steam issues from the nozzle with a velocity of 1200 m/s. The nozzle angle is 20°, the mean blade velocity is 400 m/s, and the inlet and outlet angles of blades are equal. The mass of steam flowing through the turbine per hour is 1000 kg. Calculate: [j] Blade angles [ii] relative velocity of steam entering the blades [iii] Tangential force on the blades [iv] Power developed [v] Blade efficiency. Take blade velocity coefficient as 0.8. Classify the turbine and explain any one type in detail.	CO4 CO 4	
	*** End ***		

Fig B.2.2.2.e: Sample CA2 Question Paper

B. The process to ensure questions from outcomes/learning level perspective(5M)

- Using Bloom's taxonomy internal exam questions papers are set.
- The questions in the internal test are based on the course outcomes to find attainment.
- The course coordinator ensures that the learning objectives and potential results.
- Each internal theory test, whether it be online or offline, is administered as a means of evaluation.
- The questions are formed with the COs and Bloom's level.

C. Evidence of CO coverage in-class test/mid-term tests(5M)

- The institute has defined the following tools for the attainment of the course outcomes.
- The theory courses are assessed with the following tools for the attainment of course outcomes.
- The internal assessment tools of the program are as follows.

	DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERI ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA Even Sem 2022-23 CA-1 Examination (Descriptive) – April 2023 Course: B. Tech in Mechanical Engineering Sem: IV Subject Name: Sheet Metal Engineering Subject Code: BTM Max Marks: 12 Date: 28 /04/2023 Duration;; 30 Min.	E [] PE4058	SAWKAR INSTITUTES
	Instructions to the Students: 1. All Questions compulsory 2. Assume suitable data if necessary 3. Figurers to right indicate fall marks 4. Use of Programmable Calculator Not Allowed	_	
		vel/co)	Marks
Q.1	CA-1 Exam (Objective Part) completed of 2 marks		2 marks
Q.2	Solve Any one of the following.		6 Marks
(A)	Define the sheet metal operation and explain any three sheet metal operations with diagram.	CO1	
(8)	Discuss the importance of sheet metal fabrication in manufacturing industry. Differentiate between sheet metal and metal forming process.	CO1	
Q. 3	Solve Any one of the following.		6 Marks
(A)	Discuss what material properties are required for the sheet metal operation in details.	CO2	
(8)	Calculate the die and punch sizes for blanking a circular disc of 20 mm diameter from a C20 steel sheet whose thickness is 1.5 mm. (Consider Shear strength of C20: 294 MPa)	CO2	

Fig B.2.2.2.f: Sample CA-1 Question Paper

Internal assessment tools (Direct) are:

 Table 2.2.2.a Direct Internal Assessment Tools

Course Outcome	Internal Assessment Tools
CO 1	CA1, MSE, ESE
CO 2	CA1,MSE, ESE
CO 3	CA2,MSE ,ESE
CO 4	CA2, ESE

D. Quality of Assignments and its relevance to Cos(5M):

• Faculty members prepare COs for the allocated subjects. They then prepare assignments according to these COs using Bloom's Taxonomy levels. Academic monitoring member verifies checks mapping of assignments with the defined COs.

• The faculty prepares a total of five-six assignments by considering coverage of all course outcomes. Certain time duration is given to the students to submit the assignment. The assignments submitted by the students are evaluated by the faculty members. Marks are given as per student's performance and a record is maintained in the course files.

Dr. Babasaheb Ambedsar Jeen Arvind Gavall College ODD. Sem (Department) Class: B: Subject: Fundamentals o	nongreat Conversion, Longre (1545) 2022-23) Mechanical Tech of Automotive Systems
Subject Code : 1	BTMEC801A
Assignme	nt No: 1
	Published Date: /03/2023 Submission Date: /03/2023
Q () Explain Exhaust manifold	CO-1 [6 Marka]
	Name & Sign of Faculty Mr.Kamble A.V



Fig B.2.2.2.g Assignment with CO relevance

		Dr Babasaheb Ambedka	r Technolo	gical univer	sityLoner	6				
		Samarth I	ducationa	l Trust's						
		Arvind Gavali College of En	ginering	g, Satara (Inst Cod	e: 6545)	() () () () () () () () () ()			
		Result Analysis Th	cory (dd Sem	2022-2	3				
		CA	IFra							
	T2 117 The L		-I LAA	<u>n</u>	TIT (DT	ITE CON		There		
Class	s:- Fmal Year Blech	Sem:- VII Subject:- Manufa	cturning	Processes	m (BI	MEC /0.	5)	Dep	t; Mech	anical
			Obj	ective		Desci	iptive		Assig	nment
Sr. No	PRN No.	Name of Student	Total out of 1	Total out of 1	Q.1 (A) 06 Marks	Q.1 (B)- 06 Marks	Q.2 (A)- 06 Marks	Q.2 (8)- 06 Marks	Assign ment No 1 (12 Marks)	Assign ment No 2 (12 Marks)
		Maximum marks	1	1	6	6	6	6	12	12
. i			CO-1	CO-2	CO.1	CO-1	CO-2	CO-2	CO-1	CO-2
1	1965451612062	JADHAV ATUL SAMBHAJI	1	1	4		5		9	10
2	1965451612068	PAWAR SNEHAL SANTOSH	1	1		4		5	10	9
3	1965451612069	BHAPKAR ROHIT SUNIL	0	1		5	4		8	9
4	1965451612078	NIKAM VAIBHAV DILIP	1	1	4		4		9	8
5	1965451612083	JADHAV KARAN UDDHAV	1	1		5		5	11	11
6	1965451612084	KONDHALKAR BANAJI BAPU	1	1	5		4	12 12	10	9
7	1965451612085	BARGE ATUL RAVINDRA	1	1	6			6	8	8
8	1965451612086	BHINTADE MRUNAL RAJAN	1	1		5	4		9	7
9	1965451612087	MARATHE VIKRANT VASANT	1	1		3	3		11	11
10	1965451612088	JADHAV SHRIYASH SHASHIKANT	1	1	5		4	1	10	9
11	1965451612096	NIKITA SHIVDAS KOSHTI	1	1	4		4		8	9
12	1965451612100	RAUT PRATHAMESH BRAMHADE	1	1	6		6	V - 3	7	9
13	1965451612101	KHARAT CHAITANYA LAXMAN	1	1	4		4		9	8
14	1965451612102	SHINDE SUYOG MASKUDEV	1	1	4		5		10	9
15	1965451612104	MORBALE ABHISHEK SANGRAM	1	1	5		4	8 S	10	9

Fig B.2.2.2.h Sample Assignment Evaluation Record

2.2.3. Quality of student projects (25)

A. Identification of projects and allocation methodology to Faculty Members (3)

Student carries out mini project in fourth semester and major project in seventh and eighth semester. Department follows standard procedure to ensure quality of project. Student selects project domain in line with their interest. Students are encouraged to do real world project. Department and R& D department head guides, help student to select domain by sharing with them various project domain like (not limited to)

- a) Design and manufacturing
- b) Manufacturing/production
- c) Mechatronics
- d) Renewable energy
- e) Design
- f) Multidisciplinary
- g) Automobile
- h) Thermal
- i) Artificial Intelligence (AI)
- j) Design and Development
- k) Agricultural
- l) Pneumatic System
- m) Electric power
- n) Additive manufacturing
- o) 3D printing

Project groups are formed by student itself, if they are not able to form group then project coordinator help them to form group.

A. Project Identification & guide allocation methodology (3M).

The project coordinator and project assessment committee (PAC) ensure the quality of students' projects. The PAC follows the guidelines set by the department in the following manner:

- 1. The R & D committee displays a list of faculty members along with their areas of expertise on the notice board.
- 2. A list of previous year's projects is displayed on the notice board and also available in the departmental library, which ensures no repetition of project work.
- 3. Students select the suitable area, form their group of a minimum of three and a maximum of five, and contact the concerned faculty member.
- 4. If any group is failing to submit the guide name then the project coordinator will assign the guide to the group.
- 5. Students can identify a problem statement for the project. If they are not able to find the problem statement, then the supervisor will give a problem statement to the students for the execution of problem solutions through the project work.
- 6. Committee finally allows the projects by considering various parameters like relevance to POs, originality, feasibility, the technology used, patentability, and resource required.
- 7. The guide monitors the progress of the project work regularly and keeps a track record. In case, the performance of the student's group is not satisfactory, the matter is reported to PAC for required action.
- 8. The guide ensures documentation with the university format for submission of the project report.



Fig B.2.2.3.a: Project Identification & allocation method

-	ARVIND	GAVALICO	SAMARTH	DUCATIONAL TRU ENGINEERING Acade	& POLY	TECHN	IC SATA	54
TITLE OF P	Tablan	PRO	JECT PRO	GRESS SHE	ET		MAC	
Name of Coursel, Toys Invest C. Status	NUMBER OF	Appropriate 724. anorganite. A marte: Nicoles also actes a	iliy Classes	Room of Research Transfordies State and State State Register And State State Register	nyan dari ayan dari ayan dari da sama ay	A Corner P	Ania (1) Ania (1) Ania (1) Ania (1)	Panja g
	*****	-	1.44	Attigned	Reduction I	Allasters .	Testa .	Property
0.14114				and a second	1			
		a minertiari						-FF
	(Problem) (P	-Friend-	Protone was	provide havening				1.0
Tell Slee		farming .	the word to	white an grapping	35			20
Ba-14(23)	Destruction in the	allowing of sittle one	The galant	apic method	1.8			1 1 1
	antitude dis	Watte Marth game	The Arrist 1	Fider the style	3.0			
The late	To Chevipper. with	100 mar 44 10-43	To ealy	2 V MARIELS	15	advant of		
	Patto and a close of	the big made			18			1



Fig B.2.2.3.b: Sample Project Progress Sheet

B. Types and relevance of projects and their contribution towards the attainment of POs and PSO (5)

Manufacturing, Mechatronics, Thermal, Automobile, Design & Manufacturing, AI, Robotics & Automation, 3D printing, Pneumatic & Hydraulics are the major domain of project development in the Mechanical Engineering Department.

Project Domain	No. of Project in each domain													
Year	2022-	2021-	2020-											
	23	22	21											

Design and manufacturing	4	9	
Manufacturing/pro duction	7	4	1 0
Mechatronics	6	3	1
Renewable energy	4		
Design	2		7
Multidisciplinary	2		
Automobile	1	5	9
Thermal			
Artificial Intelligence (AI)		1	
Design and Development		3	
Agricultural		3	1
Pneumatic System			3
Electric power			1
Additive manufacturing			2
3D printing			2
Total	26	2 8	3 6



Fig B.2.2.3.c Project Categorization

To ensure the relevance of projects, the need for the development of the project in the current technological context should be verified by the team consisting of the project guide and project assessment committee members, and also the projects are mapped to POs and PSOs.

Course Objectives:

- 1. To provide an opportunity for applying the knowledge gained at the time of study.
- 2. The students are expected to develop higher order skills, where in they analyze, evaluate and create.
- 3. To prepare students to solve/implement/upgrade the issues of the safety/ public health/ environmental/societal by application Mechanical Engineering concepts or principles.

Course Outcomes:

- 1. Improve professional competency and research aptitude in the relevant area.
- 2. Develop work practices in students to apply theoretical and practical tools/techniques to solve reallife problems related to industry and current research.
- 3. Clearly understand the value of achieving perfection in project implementation and completion.
- 4. Learn to accept challenges and work in a team to solve problems with a multidisciplinary approach.
- 5. Enable the student to implement the project planning in their industrial In plant training work

6. Demonstrate professionalism with ethics, present effective communication skills, and relate engineering issues to the broader social context of

Table 2.2.3.b Project CO-PO Mapping

	CO - PO Mapping Of Project													
	PO 1	PO 2	PO 3	PO 4	PO 8	PO 9	PO 10	PO 11	PO 12					
CO 1	2	3	2	3	2	2	2	3	3	2	2	2		
CO 2			2	2	3				2		2			
CO 3		2	3					2	3		2	3		
CO 4		2	2						2	3	3	2		
CO 5	2	3	2	3	2	3	2	3	2	2	3	2		
CO 6									3	2		3		
Strengt	hofCo	orrelatio	on: High – 3	, Mediun	1 - 2, Lov	w – 1								

The procedure of CO Attainment

- 1. All the performance indicator parameters/ Rubrics are mapped with course outcomes.
- 2. The percentage of marks in each CO for every student is calculated.
- 3. The percentage of students securing more than a threshold percentage (increase every year for continuous improvement of performance) in internal and external evaluation is calculated which shows a certain level of CO achievement

CAY (2022-23):

Table B.2.2.3c Mapping of Projects (PR1-PR26) with PO and PSO

Gr	Project Name	P	P	Р	Р	P	P	P	Р	P	Р	Р	Р	Р	Р	Р	Р	Р
р				0								0	0	0	0	0	S	S
No		0	0		0	0	0	0	0	0	0		9		1		0	0
				3								7		1	1	1	1	2
		1	2		4	5	6	7	8	5	6			0		2		

PR	Metal non metal sorting using metel	Y	Y	Y		Y	Y			Y	Y	Y	Y	Y	Y	Y	Y	
1	detection											v	vι	v	\mathbf{v}	v	v	
			* 7	X 7	* 7				* *	* *	* 7	1		1				
PR	Radial and axial relief Grinding Machine		Y	Ŷ	Y	Y			Ŷ	Y	Y		Y	Y	Y	Ŷ	Y	
2																		
PR	Semi autoconducting mulching machine		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
3																		
PR	ALTERNATIVE METHOD FOR WATER LIFTING		Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	
4	TECHNOLOGY IN RURAL AREAS																	
PR	2 Wheel Desticides Courses		Y	Y		Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
5	3-wheel Pesticides Sprayer																	
PR	Generation Of Electricity From Ocean Waves		Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y
6	by using spur gear																	
PR	Analysis And Elimination Of Leakages In		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
7	Hydraulic Joints Of Excavator																	
PR	Proumatic arm industrial		Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	
8																		
PR	Design and Development of Autonomous		Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
9	Pothole Detection Robot For Smart City																	
PR			Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
10	Robotic arm with vehicle																	
PR	Accelerometer Based Gesture Controlled		Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	
11	Robocar																	
PR	Vibration investigation of two wheeler			Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
12	speedometer using vibration fixture																	
PR	Read newer generation		Y	Y	Y	Y			Y	Y	Y		Y	Y	Y	Y	Y	
13																		
PR	Grass outtor with colf charging		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
14	Grass cutter with sen tridiging																	

PR	Design and development of 360 degree fire]	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
15	protection system																	
PR	Madicina Danation Web Application		Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
16	Medicine Donation web Application																	
PR	Multitacking Agriculturgal Robot		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
17																		
PR	Mini coro cut Machino		Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	Y
18																		
PR	Design and fabrication of automatic ground		Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
19	clearance machine																	
PR	Section bonding machine		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
20																		
PR	Multipurpose agriculture machine		Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	
21	Multipulpose agriculture machine																	
PR	Venticel evice wind to white e			Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y
22	Vertical axis wind turbine																	
PR	Proumatic int machine		Y	Y	Y	Y			Y	Y	Y		Y	Y	Y	Y	Y	
23	r neumatic jet machine																	
PR	Component Extractor		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
24																		
PR			Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
25	Design and manufacturing of hydraulic cutter																	
PR	Matarized Scrow lack		Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	
26	INIDIOUSED SCIEW JACK																	

CAYm1 (2021-22):

Table B.2.2.3d Mapping of Projects (PR1-PR23) with PO and PSO

Gr	Project Name	P	P	Р	P	P	Р	P	P	P	P	Р	Р	Р	Р	Р	Р	Р
р				0								0	0	0	0	0	S	S
No		0	0		0	0	0	0	0	0	0		9		1		0	0
				3								7		1	1	1	1	2
		1	2		4	5	6	7	8	5	6			0		2		
PR		Y	Y	Y		Y	Y			Y	Y	Y	Y	Y	Y	Y	Y	Y
1	Fabrication of Battery Operated Mini Power																	
	Ther											Y	ΥY	Y	Y	Y	Y	Y
PR	Spudor Pot		Y	Y	Y	Y			Y	Y	Y	11	Y	Y	Y	Y	Y	
2	Spyder bot																	
PR	Electric Vehicle		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
3																		
PR	Thermal Analysis of Rectangular & Parabolic		Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	
4	Fins in Heat Exchanger																	
PR			Y	Y		Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
5	Design and fabrication of triangular air																	
	compressor																	
PR			Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
6	Intelligent Braking System																	
PR	Design and Manufacturing of pull back collet		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
7	chuck																	
PR	Process improvement using DMAIC		Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	
8	methodology																	
PR	Design and development of RF controlled fire		Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
9	fighting robot																	
PR	Dual Axis Solar Tracking System with self		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
10	cleaning																	

		I																
PR 11	Self power generated electric bicycle		Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	
PR	Testing and analysis of mechanical properties			Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
12	of different 3D printing materials																	
PR	Design & Manufacturing Cattle Feed Pallets		Y	Y	Y	Y			Y	Y	Y		Y	Y	Y	Y	Y	Y
13	Machine																	
PR			Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
14	Design and manufacturing of Oli skimmer																	
PR			Y	Y	Y	Y			Y	Y	Y		Y	Y	Y	Y	Y	
15	Exoskeloton Arm using pheumatic cylinder																	
PR	Design and development of can crusher		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
16	machine																	
PR			Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	
17	Design and development of welding fixture																	
PR	Mantinal Avia Mindraill Turkina		Y	Y		Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
18	vertical Axis windmill Turbine																	
PR	Color Dooluus Installation		Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y
19																		
PR			Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
20	Motorized Chain Mechanism Hacksaw																	
PR	Chillen for the superforming reasons		Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	
21	chiller for thermororming process																	
PR	solar operated mini seed drilling and fogging		Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
22	sprayer pump																	
PR	Design and manufacturing of 3 axis drilling		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
23	machine																	
PR	Design and development of drilling fixture for		Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	
24	radial drilling machine	Y																

PR 25	Wireless river trash collector		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
PR		Y	Y	Y		Y	Y			Y	Y	Y	Y	Y	Y	Y	Y	Y	1
26	Fully automated solar grass cutter																	Τ	
												Y	ΥY	Y	Y	Y	Y	Y	
PR	Braking Energy Storage in flywheel		Y	Y	Y	Y			Y	Y	Y		Y	Y	Y	Y	Y	Y	1
27	Braking Energy Storage in Hywheel																		1
PR	Design and fabrication of pipe inspection		Y	Y	Y	Y			Y	Y	Y		Y	Y	Y	Y	Y	Y	1
28	robot																		1

CAYm2(2020-21):

Table B.2.2.3 e Mapping of Projects (PR1-PR35) with PO and PSO

Grp	Project Name	P	P	P	Р	P	P	P	P	P	P	P	Р	Р	P	Р	Р	Р
NO		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	S
					4	5	6				6	7	9	1	1		0	0
		1	2	3				7	8	5				0	1	1	1	2
																2		
PR1	Gyro Vehicle With Flexible Chassis	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
PR2	Walking BOT Theo Jansen Mechanism	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
PR3	IoT-Based multi-direction conveyor	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	robot																	
PR4	Design and Fabrication of Automatic	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y
	Milk Can Tilter Mechanism																	
PR5	Bicycle Without Chain Drive	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
PR6	Solar Based Robotic Farming Machine	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR7	Low Cost Ventilator Machine	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR8	Rocker Bogiee Robot With Stabilized	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	
	Platform																	1
PR9	Rolling and Bending Machine	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

PR10	Electric Vehicle	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
PR11	Automatic Painting Machine	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR12	Design and Manufacturing of Air	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Calorimeter to Enhance Engine																	
	Eficiency																	
PR13	Pneumatic Operator Feeder	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	
PR14	UGC Vehicle With Gun Mechanism	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
PR15	Design of 6-Way Valve	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
PR16	Design and Fabrication of Automatic	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
	Tyre Inflation System																	
PR17	Recycling of Plastic Using Compression	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Molding Machine																	
PR18	Regular Elevated Creeper	Y	Y	Y		Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	
PR19	Robotic Irrigation System With Water	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Pump Control																	
PR20	Sugarcane Sowing Machine	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
PR21	Snake BOT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
PR22	Advanced Spying and Bomb Disposal	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Robot																	
PR23	Design and Fabrication of Automatic	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Load Carrying Vehicle																	
PR24	Design and Development of Automatic	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
	Feeding Mechanism Through Feed																	
	Center Less Grinding Machine																	
PR25	Hydraulic Baling Machine	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
PR26	Polyster Let Off Machine	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

PR27	Design and Development of Solar	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Powered Earth Auger and Fertilizer																	
	Machine																	
PR28	Air Ballon Jack	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	
PR29	Performance Study of Eletric Discharge	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Machine (EDM) Processes																	
PR30	Ladle Lining by Readymade Exothermic	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Sleeve																	
PR31	Design & Development of Jig For Drive	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	End Machining Hummer																	
PR32	On-Grid 4KW Solar Lighting Power	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Plant Installation																	
PR33	Design and Development of Rapid	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	
	Prototyping Setup with Fixed Bed																	
	(Model 2)																	
PR34	Design and Development of Rapid	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Prototyping Setup with Moving Bed																	
	(Model 4)																	
PR35	Design and Development of Rapid	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Prototyping Setup with Fixed Bed																	
	(Model 1)																	
PR36	Design and Development of Rapid	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
	Prototyping Setup with																	
	Moving Bed (Model 3)																	

CAYm3(2019-20):

Table B.2.2.3 f Mapping of Projects (PR1-PR21) with PO and PSO

Grp	Project Name	Р	P	P	P	Р	Р	Р	Р	Р	Р	Р	P	Р	P	P	Р	P
No.		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	S
																	0	0
		1	2	3	4	5	6	7	8	5	6	7	9	1	1	1	1	2
														0	1	2		1
PR1	Design & Development of boring fixture	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	
PR2	Experimental Analysis of bearing	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	·
PR3	Bar Feeding Mechanism	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
PR4	Windmill	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	·
PR5	Design & Development of Rice Planting Machine	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR6	Investigation of Chicken fat oil blended biodiesel for	Y	Y	Y	Y		Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	·
	diesel engine																	1
PR7	Engine Lifting Crain	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
PR8	Automatic Sealing Machine	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	·
PR9	Electric Bike	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
PR1	Automatic Drain wastage machine	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y
0																		1
PR1	Solar Drip Irrigation System	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
1																		1
PR1	Fixture design for heavy water upgrading plant	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
2																		1
PR1	Complaints solving through design change note & 7	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	
3	QC tools																	1
PR1	Compressed air engine	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
4																		
PR1	Design of Centrifugal blower test rig	Y	Y	Y	Y		Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	
5																		

PR1	Design & Fabrication of agricultural crop reaper	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
6																		
PR1	Feeding System of centerless grinding machine	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	
7																		
PR1	Design & manufacturing of plastic molding machine	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
8																		
PR1	Advancement & time reduction standard assembly	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
9	procedure of turbo20 + $eco32$ & $eoc42$																	
PR2	Design & manufacturing of Jigs & Fixture	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	
0																		
PR2	Tool life improvement	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
1																		

B. Process for project work monitoring and evaluation (5M)



Fig B.2.2.3.d: Project Assessment Mechanism

Procedure for monitoring& evaluation:

a. Students have to submit the synopsis of the project work to the coordinators for feasibility checking.

- b. The project work coordinators and the RR committee will scrutinize the synopsis and give suggestions for improvements in strengthening the synopsis.
- c. In case, the group of students taking projects from the Public/Private sectors needs to take approval from the HOD and a Letter of Reference sent to the concerned sector. A faculty member of the department functions as an Internal Guide to such students and the scientist/researcher in the concerned sector functions as an External Guide.
- d. Every week, the students should meet their concern guide and update their project work progress. The students/batch must give a presentation on the project in front of the project work review committee (RR Committee) as scheduled in Phase-1 & Phase-2.
- e. Finally, the RR committee evaluates the projects for respective domains.

Evaluation by project assessment committee:

Phase 1:

Sr. No	Performance Indicators/Rubrics	CO Mapping
1	Identification of Problem	CO1
2	Literature Review/ Feasibility of Project	CO2
3	Industry Sponsored/Research/Peer Review Paper Based	CO6
4	Synopsis	CO1,CO2,CO6
5	Objectives and Methodology of the Proposed Work	CO1,CO2
6	Planning of the Project Work and Team Structure	CO4
7	Presentation	CO6
8	Technical Knowledge and Awareness Related to the Project	CO1,CO2
9	Effectiveness of Communication	CO6
10	Working Within a Team	CO4

Table B.2.2.3 g Project Evaluation Scheme

All the above-mentioned performance indicators are evaluated on a scale of 1-5.

Excellent: 5

Very Good: 4

Good: 3

Satisfactory: 2

Not Satisfactory: 1

Phase 2:

Sr. No	Performance Indicators/Rubrics	CO Mapping
1	Design Methodology	CO1,CO2
2	Experimental Setup/Laboratory Tests/Validation	CO2
3	Prototype Demonstration and Presentation	CO2
4	Incorporation of Suggestions	CO3
5	Project Budget and Finance	CO5
6	Final Project Demonstration	CO4
7	Effectiveness of Communication	CO6
8	Impact on Environment and Sustainability	CO6
9	Project Report	CO6
10	Results	CO6
11	Conclusion and Discussions	CO3
12	Modern Tool Usage	CO2
13	Participation in Competition	CO4
14	Self-Motivation and Determination	CO6
15	Working Within a Team	CO4
16	Impact of Project on Society	CO6
17	Regularity	CO6
18	Applied Ethical Principles	CO6
19	Future Scope	CO1
20	References	CO1,CO2,CO3

Table B.2.2.3 g Project Evaluation Scheme

All the above-mentioned performance indicators are evaluated on a scale of 1-5.

Excellent: 5

Very Good: 4

Good: 3

Satisfactory: 2

Not Satisfactory: 1

Project Work Evaluation:

a) **Internal Evaluation:** The project work and the report will be evaluated by the internal committee at Phase-1, Phase-2

b) **External Evaluation:** The project work and the report will be evaluated by internal and external examiners appointed by the University.

c) The examiners will take a presentation and demonstration followed by Viva-Voce on the project work carried out by students. The students need to defend their project work. Based on the presentation and Viva-Voce, the marks will be awarded to the students, which will be sent to the university

													Projec	Arvie Phas	Sama nd Gas ie I Int	arth Educ vali Colle ernal Ev	ationa ge of sluatio	d Trus Engine n She	t reering et (2022	- 2023	9													
Sr. No	Gro up No.	Date of Examinati on	Title of the Project	Name	E Kn	Appl ngine owled	ied ering Ige (5)	Prob	lem /	Analysis I	Effect	tiver muni (5)	ess of cation	Quali Pre	Me ity of (esente	chanical Content rd (5)	Engine	Cost Cost	 ess (5)	Liter	ature (5)	Beview	Q	uestic ns ve r	ns & 5 (5)	l En Sust	mpac viron tainal	t on ment & sility (5)	M	odern Isage	Tool (5)	Spo Res	nsore niewed Based	d/Peer I Paper I (5)
					de (51	0	Review er (5)	Guid	D (5)	Revie wer (5)	Guid e (5)	0	Revie ver (5)	Guid e (5)	HOD	Revie wer (5)	Guid e (5)	HOD	Revie wer (5)	Guid	0	Revie wer (5)	Guid e (5)	HOD	Revie wer (5)	Guid	D	Revie wer (5)	Guid	D (5)	Revie wer (5)	Guid e (5)	0	Review et (5)
1			1077 = 11 5 7	And indian	1	100		1 101	101	3	1	4	4	- (-)	101	4	4	1	4	i cer	14	4	i les	1	4	the less	100	4	1	4	4	1	1	1
-	1.1	19.01.2023	Motal son metal corting using	Webber attact		1	5	1.	1 .	5	1:1	-	-	-	1	1	1	1	1	1	1	1	1	1		1		1	1	-	1	1	1	1
-		10-01-2020	metel detection	Value gaswad	2.	2	2		2	9	2	2		•			1		1	-			4			-	-	1			1			
~				Assess Decar	8	1	16	1 2	2	6	2	2	2	-		1 2	1	6	1		4	1	4	-	1			1	-			4	4	
-		10 01 0000	Rodial and axial relief Grinding	Baskeeph Vasset ükorpad	2	2		0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1 2	1 2		1	1	1	1	+ +	1	
2	- T	13-01-2023	Mochine	Stroyas Prenin Patil	5	1.5	0	0	0	5	0	0	0	0	5	5	0	5	0	0	5		1	1	.5	5	0	5	0	0	1	+ +		
0	-			Mrunal Rojan Bhistada.	4	4	4	1	1	4	4	4			1		4	4	4	4		4	4	6	4	4	4	1	1	4	4	4	1 4	4
1	1.042	- margaret	Semi autoconducting mulching	Gearer Vijoy Jedher	5	1.5	5	5	5	5	15	5	- 5	5.	5	5	5	5	5	5	- 5	4	A .	4	4	4	4	4	4	4	A	4	4	4
<u>8</u>		19-01-2023	nothers	Akark snand challes	2	2	2	2	2	2	2	2		- 6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
3				Pronov Anil Choron	5	5	5	5	5	5	5	5	. 6	4	4	4	4	4	4	4	5	5	5	5	5	4	4	4	4	4	4	4	4	4
10			ALTERNATIVE METHOD	Sept Ranoch Yadav	4	4	4	4	4	4	4	4	4	4	4	. 4	4	4	- 4	4	4	4	4	4	4	4	4	4	4	4	. 4	4	4	4
11	1.4	19.01.2022	FOR WATER LIFTING	Project Vilos Solaskho	5	5	. 5	5	5.	5.	- 5	5	5	\$	4	4	5	5	4	4	4	4	4	4	4	4	. 6	4	4	4	4	4	4	4
12		10-01-2020	TECHNOLOGY IN RURAL	Suraj Dhanaji Yadav	8	- 2	S	8	2	4	4	4	4	3	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
13			AREAS	Kenal Sunif Salanble	2	2	2	3	2	8	2	8	2	2	4	8	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
14				Jeevon Kalidas Sutur	5	5	5	5	5	5	5	5	5	4	5	5	5	5	5	4	4	-4	4	4	4	4	4	4	4	4	.4	4	4	4
15	192	40.04.0000	576 22 1 5 2	Asish Prabhatar Yoday	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
16		19-01-2023	3-Wheel Pesticides Sprayer	Jodhov Vizhal Romchondro	3	3	3	3	3	3	4	4	4	4	4	4	4	4	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4
12				Razkar pratik hisdurso	2	2	2	2	4	4	1	4	4	4	4	1	4	4	4	4	4	4	4	4	4	1	4	4	4	4	4	4	4	4
18				Siddharth unach Lamba		1	4	1	4	4	4	4		4		4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4	4
19		10000020000	Geration Of Electricity From	Shahham many	4	4	4	4	4	4	4	4			1	4	4		4	4	4	4	4	4	4	4		4	1	4	4	1	4	4
20	6	19-01-2023	Occess Warez by szing spar	Ahalishik Churne		3	- 3	3	3	1	3	3		4	1	1	4	-	1	1 A	1	1	1	1	4			1	1	-	1	1	1	1
21			90%	Des annes Change		1.4		1 Å	2	1	1 2	1		-	1	1 1	1	1	1	1.1	1.1	1	1	1	1	1	1	1	1	1	1	11	1.7	
01			Annaly in a second second second	Friday Deput America		10				4		1		-	1		1	1	1	1	1		1	1			-		1				1.1	
04	1.1	10.01.0000	Analysis And Dimmittee Of	a on an Particip and oc	6			6			6						-						- 2								-			
		10-01-2023	Consiges in Hydronic Joines	Hohan Salkebron Plynar	-	4		2	2	8		4		4	1		4		4		4	4	4	1 4	4		4	4	1 1		4	4		4
0.0	-			Problem Lookes Derover	6	6		-	e.,	e .	6			-										1				· ·						
20				Abhuhch Sangran Morbak				1.	4	4	4					4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4		4
20	8	19-01-2023	Pacemotic arm industrial	Yabhov Dilip Nikon	2	2		2	4	4	4	4			4	4	4	4	4		4	4	4		4		4	4		4	4	4		4
30				Vilrant Vicset Moroths	4	4	. 4	4	4	4	4	4	6	4	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
- 10				Atel Raxindra Barga	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
22			Decign and Development of	Sujog Shindo	2	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
34		19-01-2023	Autonomous Pothole	Nikita Kochti	5	-5	5	5	- 5	5.	3	4	5	5	5	4	5	5	4	4	4	4	4	6	4	4	4	4	4	4	4	4	4	4
35	1.00	010000000	Detection Robot For Smart	Harshada Jadhav	3	3	. 8	4	4	4	4	4	4	6	4	4	4	4	4	4	4	4	4	6	4	4	4	4	4	4	4	4	4	4
36	5		City	Projakta Laige	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	. 5	5	5	5	5	5	4	4	4	4	4	4	4	4
38				Dhosale shabhan Dalasake	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4
39	10	30.01.3033	Bulkering out of the	Thombure sourable Sonjey	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4
40	-10	en-or-oves	Propose and with relate	Ghadage presit Pratod	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4
41				Atkeys Anibet Ashok	5	5	.5	5	3	5	5	5	5	5	5	5	5	5	4	4	4	4	5	5	5	5	5	5	5	4	4	4	4	4
43	-			Gaari kerisle (FATC)					4	4	4					1	1				1.1		1	1		1.	1-1.4	197305	1 1/1	11.21	0.002	1 4	4	4

Fig B.2.2.3.e Sample Evaluation Record

The process to assess individual and team performance (5M):

Project assessment is the process of evaluating the performance of the individual and an entire team. Performance evaluation is done to get a clear idea of how well the individual and team's skills are working together, motivating them and providing a suggestion for improving individual and team performance. The assessment evaluation can be done by using assessment methods like individual and team performance questionnaires and presented in front of the RR committee. Students need to score more than 60% for continuing content work otherwise consult with a guide. After reworking again need to present in front of the RR committee and will start to do further work. The process to assess individual and team performance is shown in Fig. 2.2.3e.



Figure B.2.2.3.f: Student Performance Evaluation Mechanism

E. Quality of completed projects/working prototypes(5M):

A committee of R&D head, Head of the Department, and Supervisor assess the quality of projects and select the best project each year based on the following parameters.

 Table B.2.2.3 h. Best Project Evaluation Scheme

Sr. No	Performance Indicator	Marks
1	Problem Statement & Solution to Societal /Industry	10 M
1	Problem	
2	Design/Modern tool/Technology Usage	10M
3	% CO Attainment	10M
4	Question and Answer	10M

CAY (2022-23):

Table B.2.2.3 i. Three Best Project

Three Best Project 2022-23				
Group No	Name of Student	Name of Guide	Title of Project	
	Jeevan Kalidas Sutar			
G5	Anish Prabhakar Yadav	Prof. Suraj Ghadage	3-Wheel Pesticides	
	Jadhav Vishal Ramchandra		Sprayer	
	Raskar pratik hindurao			
G4	Sujit Ramesh Yadav		Alternative method for	
	Prajyot Vilas Salunkhe	Dr. Sadanand	water lifting	
	Suraj Dhanaji Yadav	Sarapure	technology in rural	
	Kunal Sunil Salunkhe		areas	
G15	Saurabh Shivaji Dombe			
	Sudhanshu vijay gurav		Design and development of 360	
	Masal Dadasaheb Ashok	Prof. Suhas Patil.	degree fire protection	
	Pawar Snehal Santosh		system	

CAY m1(2021-22):

Table B.2.2.3 j. Three Best Project

Three Best Project 2021-22				
Group No	Name of Student	Name of Guide	Title of Project	
G2	Aditya Sunil Jagtap Rushikesh Shekar Chikne Rohit Ravindra Patil Gaurav Rajendra Kadam	Prof. Ghadage S. S.	Spyder Bot	
G17	Pawar Ashish Bhiku Pawar Pramod Bhiku Sutar Jyoti Dattatraya Bhosale Asmita Ananda	Prof. Kadam A.A.	Design and manufacturing of Oil skimmer	
G21	Pratik sanjay mane Shweta Hanumantrao Chavan Sushant Samadhan Jadhav Patil shubham sanjay	Prof. Kambale A.V.	Vertical Axis Windmill Turbine	

CAY m2(2020-21):

Table B.2.2.3 k. Three Best Project

Three Best Project 2020-21			
Group No.	Name of the Project Group Members	Name of the Guide	Title of the Project
G11	Rupesh Bhaskar Nawadkar	Prof. Shivade A S	Automatic Painting Machine
	Rohit Shankar Chavan		

	Yogesh Pandurang Sapkal		
	Shubham Sawant		
G17	Nawaj Patel	Prof. Kadam A. A.	Recycling of Plastic Using Compression Molding Machine
	Aditya Sapkal		
	Sushant Dayanand Pawar		
	Ritik Agrawal		
G22	Ranjit Kharade	Prof. Pawar Sandeep	Advanced Spying and
	Sanket Dhanawade		Bomb Disposal Robot
	Akshay Gurav		

CAY m3(2019-20):

Table B.2.2.3 I. Three Best Project

Three Best Project 2019-20				
Group No.	Name of Student	Guide	Name of Project	
	Kale Haridas			
	Sapkal Abhijit			
G10	Sathe Deepak	Prof. Patil S.M.	Automatic Drain wastage machine	
	Mandave Akshay			
	Kadam Suraj			
	Bhilare Pranita M.		Design & Fabrication	
G16	Gaikwad Kanchan C.	Prof. Waghmode P.K.	of agricultural crop	
	Bhosale Prasad R.		reaper	

	Parmar Meet N.		
	Shinde Ganesh	Prof. Matkar M.V.	Solar Drip Erigation System
G11	Gaikwad Suraj		
	Pisal Rohit		
	Pawar Omkar		



Figure B.2.2.3.g Intra-College Project Competition



Figure B.2.2.3.h AVISHAKAR 2019 University Project Participation & Prize



Figure B.2.2.3.h AVISHAKAR 2022 Zonal Participation & Prize







Figure B.2.2.3.i Project assessment by Industry Experts



Sample Photo of Best Project



Figure B.2.2.3.j Sample Photo of Best Project

F. Evidence of papers published/Awards received by projects etc.(2M)

Table B.2.2.3 m. Awards in Project Competition

Sr. No.	Academic year	Name of the Competition	The number of students who participated
1	2022-23	Cretechnova 2K23 National Level project competition held at SVPMs College of Engineering,Malegaon	06
2		AVISHKAR 2022-2023 Institute level competetion	03
3		SMART INDIA HACKATHON 2022 at national level held at BHILAI INSTITUTE OF TECHANOLOGY, DURG	06
4	2021-22	Internal Hackthon of Smart India Hackthon 2022) 28/04/2022	05
5		IDEATHON 2021 State level held at A.G. PATIL INSTITUTE OF TECHNOLOGY,SOLAPUR	01
6		AVISHKAR 2019-2020 University level Competition by Shivaji University, Kolhapur	01
7	2019-20	AVISHKAR 2019-2020 Zonal Level Competition by Shivaji University, Kolhapur	01
8		Published a paper entitled Design of tooling system to reduce cycle time in Saybold Report	04


Figure B.2.2.3.k Paper Publication Certificate



Figure B.2.2.3. I Smart India Hackathon 2022 International Hackathon Certificate



Figure B.2.2.3. m National Level Project Competition CRETECHNOVA 2K23 held at College of Engineering, Malegaon, Baramati

2.2.4. Initiatives related to industry interaction

A. Industry supported laboratories(5M)

The department of Mechanical Engineering has made efforts in the direction of making students ready for industry by enhancing their skill sets through training on recent tool and technologies. The said efforts are made through the following activities in collaboration with industry.

S.No	Industry Attached	Name of	Organization	Relevance to PO/PSO
	Laboratories	Company	Objective	
1.	CAD/CAM	Designtech	1. To get	PO1,PO2,PO3,PO5,PO12,PS01
	Laboratory	Solution,	acquainted	
		Karad	with the world	
		(Institute of	of Design	
		Design and	Tools.	
		Technology)	2. Ability to	
			create 2D and	
			3D modelling	
			3. To enhance	
			the skills of	
			students	

B. Industry involvement in program design and partial delivery of any regular courses for students(5M)

a. Industrial Visits:

Industrial visits for the engineering students are an essential activity as per their curriculum to get a proper insight into how the real working environment of a company and its functionality at different levels. To go beyond academics, these visits are arranged to develop the insights of the students – attaining practical knowledge and their theoretical applications thereof

Objectives of Industrial Visits:

- 1. An opportunity to get exposure to real workstations, machines, and systems.
- 2. Acquaint students with interesting facts and new technologies.
- 3. Expert briefing about the functioning of machines and systems.
- 4. Increase practical awareness of various industrial sectors.
- 5. Opportunity to have a face-to-face session with technical or administrative experts of the organization to ask questions and clarify doubts. Understand the end-to-end process at all levels.
- 6. Opportunity to understand policies and practices of Industry in terms of production, quality, and service management.
- 7. Keeping these objectives at hand, the department organizes industrial visits which are within the framework of the curriculum.

S.No	Academic	Batch	Name of Company Visited	Date of	No. of
	Year			Visit	Students
1				9 th June	36
1		BTech	Delval india Pvt Ltd	2022	50
2			Oracle Presscomp Engineering	26 th May	15
2	2022-23	SY	Pvt. Ltd.	2023	15
3	2022 20		MSPTC Workshop Satara	13 th May	35
5		TY	WSKTC Workshop, Satara	2023	55
4			Maharashtra Saqatar Dut I td	20 th	
4		TY	Wanarashira Scooler PVt Ltu	Dec.2022	25

Table B. 2.2.4 b. Industrial Visit

After each industry visit, the department takes students' feedback. Feedback is considered to do further improvement for the same. The format of feedback is shown below in Figure B.2.2.4a

	UDENT'S FEEDBACK FORM OF DUSTRIAL VISIT/ TRAINING/ TERNSHIP
3. bin	pact/ learning experience of the student from the visit/ transing/ intenship *
0	Escelant
0	Herry Good
0	dood
0	Moderate
2. Ho	w do you rate the working as a team member *
0	Escalarit
0	viery good
0	Good
0	Moderate
10 L	ive Projects Hardling *
0	Escellent
0	Rey good
0	Good
0	Noderate
11.9	inggestions if any
That	an swee
-	a Ceatr for



b. Invited Industrial Talks- Resource person from industries in the specific domain of Mechanical Engineering.



Figure 2.2.4 b. Industrial Talk Session

c. **Student Development Programs**- in collaboration with the industry for skill/curriculum development.



Figure 2.2.4 c. Student Development Session

d. Industry experts were invited as judges for the project Exhibition.



Figure 2.2.4 d. Industry Expert Visit for Project Exhibition

e. MOUs with Industry:

Following MOUs are signed with companies:

Table B. 2.2.4 c. Industry Institute MOUs

Sr. No.	Name of Company	Authorized	Duration
		Person	
1	Zerg Corporation, Satara	Mr.Amey Patwardhan	13-09-2019 to 4-01- 2025
2	Akashganga Constructional Machines Pvt. Ltd.	Mr.Sagar Kalani	25-1-2020 to 25-01- 2025
3	Abhijat Equipments Pvt. Ltd., Satara	Mr.Prachet Doshi	10-12-2018 to 10- 12-2021
4.	Design tech Systems Ltd	Mr. Raghav	20-02-2018 to 20-

	Pune	Kulkarni	02-2021
5	Majesty Tyres Satara	Mr.Ashish Jagtap	01-01-2022 to 31- 12-2026
6	Om Enterprises,Satara	Mr. R. Bhintade	01-01-2022 to 31- 12-2026
7	Kavade Engineering Works, Satara	-	06-03-2021 (5 Years)
8	GPRO Drives	-	16-08-2023(5 Years)
9	Designtech Solutions, Karad	Mr. Mahesh Sathe	5 Years
10	Oracle Presscomps & Engineering, Satara	-	01-08-2023(5 Years)

1		
	Memorandum of Understanding	
	Between	
	Arvind Gavali College of Engineering Satara	
	And	
	Zerg Corporation	
	Te	
	Zerg Corporation	



Figure 2.2.4 e. Sample MOU

f. Impact analysis of industry-institute interaction and actions are taken thereof(5)

Government of In	da	Welcoma Dr. Reena Singh Sign out		Application Details	
Ministry of Co	mmerce & Industry Floriustrial Policy & Promotion		APPLICATION NUMBER	202221065599	
Controller Ge	neral of Patents Design & Trade	e Marks	APPLICATION TYPE	ORDINARY APPLICATION	
Online Fil	ng Of Patents	INTELECTUAL	DATE OF FILING	16/11/2022	
rick Form Filing by for Patient secution Highway Hj	Application Number: 202121024	Picherri NDA	APPLICANT NAME	OR PHARANDE VILAS ARJUN MS.GAVALI MANISHA KRUSHNAT MS.GURAV KANCHAN DATTATKAY MS.WARAGADE MRUNALI DUIP S.MRS.NIKAM PRIVANKA CHANDRAKANT	
Nobile Number	Type Of Applicant: NP	1 Martin Martin	TITLE OF INVENTION	OP TRANSFORMER THEFT PROTECTION AND MONITORING SYSTEM.	
ication Number	Inter Tife Of Invention: Using Gaar Box Three-Wheeler Auto Rickshaw to Convert IC orgine into Electrical Drive Using Gaar Box Three-Wheeler Auto Rickshaw to Convert IC orgine into Electrical Drive Using Gaar Box Three-Wheeler of Engineering, Satara, NH, India, E-mail: Valas apostand/ganzi Con Dr. Villes Apoleant Name: Applicant Name: A Administration Kithar, M. Askash Saint Naryuda, Mr. Anlest Almash Dontar, Wr. Abhthort Shankarao Kithar, M. Askash Saint Naryuda, Mill, India, E-mail: Valas apostand/ganzi Con Principie and Galab, Arvind Gaara IC College of Engineering, Satara, NH, India, E-mail: Valas apostand Address v Isla apostand/ganzi Con Principie and Galab, Arvind Gaara IC College of Engineering, Satara, NH, India, E-mail: Valas apostand Address v Isla apostand/ganzi Con Principie and Galab, Arvind Gaara IC College of Engineering, Satara, NH, India, E-mail: Valas apostand/ganzi Con Principie and Galab, Arvind Gaara IC College of Engineering, Satara, NH, India, E-mail: Valas apostand/ganzi Con Principie and Galab, Arvind Gaara IC College of Engineering, Satara, NH, India, E-mail: Valas apostand/ganzi Con Principie and Galab, Arvind Gaara IC College of Engineering, Satara, NH, India, E-mail: Valas apostand/ganzi Con Principie and Galab, Principie and Galaba, Principie and Galaba, Principie and Galaba, Principie and Principie and Galaba apostandoganza (Galaba apostandoganza) (Galaba apostan		RELD OF INVENTION	ELECTRONICS	
Application			E-MAIL (As Per Record)		
National Phase Ication			ADDITIONAL-EMAIL (As Per Record)	vilaspharande@gmail.com	
form 2			E-MAIL (UPDATED Online)		
form 13	Sr.Ne. Applicant Name Applic	ant Address	PRIORITY DATE		
Form 18 Form 28	Type	Provide and Costs Annual Costs Column & Economics Status Millions E	REQUEST FOR EXAMINATION DATE	16/11/2022	
W 30 (NEW)	1 Pharando NP	matcher and outer, which devin coneys of chypneting, basins, whi, includic- mail: vibia agreestarait[gmail.com	DUBLICATION DATE (US 114)	09/11/2022	
ewal of Patent	2 Mr. Aakash Sunil NP Newude NP	Final Year B-Tech (Mechanical Engineering) Arvind Gaval College of Engineering, Setars E-trait sekashnavkude32220fpmail.com	POBLICATION DALE (0/3 / 14)	09/12/2022	
rt	3 Mr. Anixet Avinash NP	Final Year B-Tech (Mechanical Engineering), Avend Gavai College of Engineering, Sature MH, Iorla, E-wait, asket/bankar/90/Devrail.com			
ion under ruis	4 Mr. Abhishek NP	Final Year B-Tech (Mechanical Engineering), Anvird Gaval College of Engineering, Series MH, Jude E, and Mechanical Engineering			
nh Schedule	5 Wr. Akash Narendra Borale NP	Final Your B-Tech (Mechanical Engineering) Arvind Gaval College of Engineering, Setera, Mit, India, E-mail: 27akashborate@gmail.com		Application Status	
orm History onts Submission	Rights in the application(s) has have	ve been assigned to : (APPLICATION STATUS	Application Awaiting Examination	
erding CBR	Upload Save Preview	Artivate Wing	lo		
ontrol Panel		Pictivite Pilit			

Table B.2.2.4.d: Initiatives related to Industry Interaction

Sr.	Industry	Industry Involved	Outcome	Impact Analysis
No	Interaction			
	Initiative			
1	Industrial Visits	Delval india Pvt Ltd	Skills to use modern engineering tools, and equipment to analyze superior quality ball valves, butterfly valves, actuators and control accessories	Experience the Industrial Culture

2	Industrial Visits	Maharashtra Scooter Pvt Ltd	Interaction with team and discussion on doubts Regarding immerging Technology	Enriched the knowledge about mentorship for Start Up
3	Industrial Visits	Prakhi Industries Bhosari	Get idea about opportunities available in Prakhi Industries group	Students get idea about cutting tools, Broaches cutters including air die face cutter.
4	Industrial Visits	Sankalp Milk Dairy Plant Satara	Get idea about Ice test rig,cooling system	Experience the Industrial Manufacturing process
5	Industrial Visits	Otari Cold Storage Plant Old MIDC Satara	Warehousing of refrigerated cold storage	Enhance the practical knowledge about Warehousing and support activities for transportation
6	Industrial Visits	Science Center Park Pimpri	Understanding about Automobile spares	Students aware about different spare parts
7	Industrial Visits	Bhuinj Sugar Factory	Study of sugar manufacturing machines mechanisms.	Students enhance knowledge about manufacturing machines mechanisms

Some Photographs of Industry Interactions:



Figure 2.2.4 f Industry Visit at Delval Flow Control Pvt. Ltd.



Figure 2.2.4 g Industrial Visit at Science Exhibition Center Pimpri Chinchwad





Figure 2.2.4 h Students Present project models to Industrial Expert

Fig 2.2.4 i Industry expert talk

2.2.5 Initiatives related to internship / Summer Training

Industrial/Internship/Summer Training:

A. Industrial/Internship/Summer Training Course Objectives

- 1. To provide industry exposure to student
- 2. To make them the aware of working culture of the Industry
- 3. To provide knowledge of design, manufacturing, quality, and testing of products

B. Industrial/Internship/Summer Training Course Outcomes:

- a) Understand industrial environment and practices.
- b) Work on the specific project and complete it in the stipulated period.
- c) Able to understand the importance of quality of product and human safety.
- d) Apply theory and practical knowledge while dealing with industrial problems.

C. Implementation of Industrial Training:

- 1. The placement department approaches various companies every semester to provide internships to students. Some companies where students undergo are mentioned in Table B 2.2.4g.
- 2. Proper guidelines, suggestions, and scope of industry internship/summer training are provided to students.
- 3. Help students select the industry for summer training as per their domain of interest.
- 4. Based on the inputs by students, proper communication is carried out with the concerned industry.
- 5. Department provides the recommendation letter (Figure B.2.2.5b) and other necessary support to students for availing of industry internships.
- 6. All the students are required to submit their training reports along with a certificate from the concerned industry.

Sr.	Company Name
No	
1	Delval India Pvt.Ltd.
2	Maharashtra Scooter Pvt.Ltd.

Table B 2.2.5 a Industry Interaction Details

3	Abhijat Equipment Pvt.Ltd.
4	Becon Gear transmission Satara
5	TE Connectivity Shirval
6	Satara Engineering Pvt.Ltd
7	Atharv Engineering Pvt.Ltd.
8	Paranjape Pvt. Ltd.
9	Mutha Engineering Works
10	Om Enterprises Pvt.Ltd.
11	Top Gear Pvt. Ltd.
12	Alpha Laval Pvt. Ltd.
13	CRANE
14	Jay Maharashtra Engineering,Satara
15	SAI GEARS, satara
16	Pricol Limited ,pune
17	Menar Auto Components Pvt.Ltd,Bhosari Pune
18	Trimurti Tools, Satara
19	Shinde Kunal Narayan
20	Dogus Soma JV,Mumbai
21	Emerson Process Management,Pune
22	BSA Corporation Ltd,Pune
23	SBRS Machines PVT.LTD.Bhosari,Pune
24	Shardadeep Automobile Pvt.Ltd.Satara
25	Unitech Corporation PVT.LTD.Pune
26	ACG Associated Capsules Pvt.Ltd,Satara
27	Ognibene India PVT.LTD,Pune
28	Shri Jagadamba Engineering Woeks,Satara
29	Bharat Forge Ltd,Baramati
30	Kinetic Electric Motor CO.PVT.LTD,Pune
31	Span Filtration Systms PVT.LTD.Pune

32	Ognibene India PVT.LTD,Pune
33	Indreshwar Sugar Mills Ltd.Pune
34	Varad Engineering,Satara
35	Advent Foodtech,Pune
36	Suzlon Energy Ltd.Pune
37	Cooper Corporation PVT.LTD.Satara
38	Nilsan Engineering Solutions
39	Bharat Forge Ltd,Pune
40	Yashaswi Academy For Skills
41	John Deere,Pune
42	Tech Mahindra ,Pune
43	Peacock Allied Products PVT.LTD.Satara
44	Fortune Machines & Tools.CO, Satara
45	Precision Masters,Karad
46	ILJIN Global India PVT.LTD.Satara
47	Shardadeep Automobile Pvt.Ltd.Satara
48	Shree Mahalaxmi Services, Pune
50	SHREE SWAMI ENGINEERING WORKS, Satara
51	KSB,Pumps,Pune
52	Nexteer Automotive India Private Limited, Bengaluru
53	Neosym Industry Limited, Pune
54	Tata Cummins PVT LTD ,Phaltan
55	GE India Insustrial Pvt Ltd,Pune
56	SKF India Limited, Pune
57	Gangotri Auto Engineering,Satara
58	SeaLink Infotech, Pune
59	Shardadeep Automobile Pvt.Ltd.Satara
60	Transmetal industries Satara
61	S.B.E.M Pvt Ltd Pune

Table B 2.2.5 bIndustry Internship Details

CAY(2022-23):

Sr No.	Names of the Candidates	Company
1	Bhapkar Rohit Sunil	Borgward Technology Pvt. Ltd.
2	Nikam Vaibhav Dilip	Gauri Engineering Work, Padali
3	Banaji Bapu kondhalkar	NK Technologies Pvt. Ltd.
4	Barge Atul ravindra	Shaydri Irrigation, J /13 New MIDC, Satara
5	Bhintade Mrunal Rajan	Om Enterprises, Satara
6	Vikrant Vasant Marathe	Joshi Jhamphala Pvt. Ltd., Satara
7	Jadhav shriyash Shashikant	Borgward Technology, Hadpsar, Pune
8	Koshti Nikita Shivdas	Nisaka Engineering Pvt Ltd
9	Raut Prathamesh Bramhadev	Autocal Engineer, Chinchwad, Pune
10	Kharat Chaitanya Laxman	Gestamp Pune Automotive Pvt. Ltd. Takve Budruk, Taluka Maval, Dist. Pune 412 106
11	Suyog Maskudev shinde	Gestamp Pune Automotive Pvt. Ltd. Gat Number - 374, 517-521, 523 Village - Takve Budruk, Taluka Maval, Dist. Pune 412 10
12	Morbale Abhishek Sangram	Tanksale Polymers Pvt. Ltd, j-13/20,Addl . MIDC, Satara- 415004
13	Pralhad Dalavi	Elon Multi Solution Design Services
14	Ajinkya Suresh Lohar	Elon Multi Solutions Design and Resource Pune Bangalore Highway Ambegaon Narhe Pune Maharashtra

		-
15	Athave Aniket Ashok	Tata Motors PVBU , Pune
		AJINKYATARA AUTOMOTIVES PVT.
		Address: 83/4, Near Satara Textile
	Bhosale Vaibhav Dattatray	Market, NH-4 Khed Chowk, Satara -
		415.002
16		
17	Dipraj Sudhir Shelar	Gajanan Honda Samarth Mandir Satara
	Thombare sourabh sanjay	ACG PHARMA TECHNOLOGIES PVT LTD
18		
		Tata Motors Limited, CVBU, Nigdi
	Rushikesh Vasant Ghornade	Bhosari Rd, Block F-2, MIDC, Pimpri
	Rushikesh vasant Ghorpade	Colony, Pimpri-Chinchwad, Maharashtra
		411018
19		
	Harshada ladhay	Nisaka Engineering Private Limited Tool
		manufacturer in Satara, Maharashtra
20		
	Lalge prajakta tulshidas	OW ENTERPRISES L- 46, Additional
21		M.I.D.C., Satara – 415 004
21	Kshirsagar Pohan Shahaji	Joshi Jampala Engineering Satara
22	KSHIISagar Kullari Shahaji	
	Prajwal SAWANT	Span Accociate
23		
	Bhosale Shubham Balasaheb	Span Associates unit-v , Plot No K2
		,additional MIDC,Satara
24	Chrowes Drovin Datil	
25	Shreyas Pravin Path	ISAN DATA SYSTEMS PVT LTD
25	Mangesh Sunil katkar	Sandvik Coromant India Pvt. Ltd.
26		
	Shubham Suresh Rokade	NK Technologies
27		
	Chavan Pranay Anil	SPAN ASSOCIATES, ADDITIONAL
		MIDC,KODOLI,SATARA
28		
	CHAVAN PRASANNA	Cooper Corporation.Satara
20	ANANDRAO	
29	Chubbana Umaash Causast	Infinite Creaking Technology Data U.
20	Shubham Umesh Sawaht	infinite Graphics Technology PVT.Ltd
	Pranit ghadge	Span associate new mide Satara
31		

	RAJOPADHYE SAMEER	Infinite graphix technologies pvt.ltd.
	RAJENDRA	shivajinagar pune
32		
	Nikam Prathamesh Sanjay	Unicorn industries
33		
	Sawant Akshata Anil	NK Technology
34		
25	Manuja Namdev Jadhav	Atlas Copco chakan Pune
35		Muthe Foundary
36	Salufikile Prajyot vilas	Mutha Foundry
50	Bhintade Sagar Shankar	KSB Pumps ITD Shirwal
37	Brintade Sagar Shankar	
		Cummins india pyt.ltd At-Post-Surawadi
	Jagtap Prajwal Balwant	Tal-Phaltan Dist-Satara
38		
	Girame Rushikesh Shantaram	Raiesh motors pyt Itd satara
39		
		SKF India Ltd. Pimpri Chinchwad,
	Attar Danish Husen	Chinchwad - 411033
40		
	La dhan Niahal Dava ah an dua	Icon Engineering And Metal Works,
	Jadhav Vishal Ramchandra	Add. MIDC Satara
41		
	Pisal Prasad Tatyasao	Cummins technology pvt Ltd
42		
	Fardin Shaikh	Cummins Technology pvt Itd
43		
11	Amar Prakash Salunkhe	Larsen & Toubro
44		HP angineering M-12/2 Addl MIDC
	Sutar jeevan kalidas	Satara 415004
45		Salaid -415004
	Pratik Hindurao Raskar	Icon engg and metal works MIDC Satara
46		
	NIRANJAN UMESH SALUNKHF	Hyundai construction equipment Pvt ltd
47		,
		HP Engineering M-12/2 MIDC satara-
	Vaibhav Sheshrao Bahir	415004
48		
		GE INDIA INDUSTRIAL PVT LTD. Plot A,
	Dange Abrar Jahangir	Chakan, 78/1, MIDC, Phase II, Wasuli,
		Maharashtra 410501
49		

		KNORR-BREMSE System for commercial
	Yadav sujit ramesh	vehicles pvt.ltd. hijewadi phase 2 pune
		maharashtra indian
50		
	Pawar shubham Shankar	Lupin biotech Ghotawde, Pune
51		
	Abhishek Sanjay Chavan	Jaya Hind Industries Pvt Ltd, Akurdi
50		Pune
52		TAFE-Tractor And Farm Equipment
	Salunkhe kunal sunil	Chakan Pune
53		Chakan rune
	DESAI AKSHAY SHANKAR	Eton
54		
	Docai Surai Sunil	TATA Motors Passenger Vehicles limited
		Chikhali, Pune 411062
55		
БС	Suraj Dhanaji Yadav	Cooper corporation pvt.ltd
50		Atlas sonso India
	Saurabh Vijay Nikam	Ita danadi swaanagar nuna
57		itu,uapoui,sweanagai,pune
		Suyash Enterprises Pvt. Saidarshan
	Lambe Siddharth Umesh	Colony .Saidapur
58		
	Kamblo Shubbam Phagwan	Magna Automotive India Pvt.Ltd (
	Kample Shubham bhagwan	Talegaon Dabhade)
59		
	GAIKWAD VAIBHAV	Mahindra & Mahindra Limited.
60	JAGANNATH	
60	Jamdada Saham Bamach	
61		
		CEO-Appkida Technologies Pvt. Ltd
	Sabale Shubham Dadaso	Pimpri-Chinchwad, Maharashtra 411061
62		
	Vijay Bhimrao Pawar	SKF Bearing Ltd Chinchwad
63		
		Shini Plastics Technologies India Pvt.
	Amit Jadhav	LtdChakan MIDC Vasuli, Khed taluka,
C A		Maharashtra 410501
64		Loop Engineering and Motel Mertin Add
	Yadav Anish Prabhakar	
65		

	Sachin Devanand Desai	Sulzer India PVT. LTD, Kondhapuri, Pune
66		
	SAWALKAR VARAD VASUDEV	Amphenol Interconnect India
67		

Table B 2.2.5 c Industry Internship Details

CAYm1(2021-22):

Sr No.	Names of the Candidates	Company
1	Mali Kishor Kumar	Jay Maharashtra Engineering,Satara
2	Omkar Pravin Kadam	SAI GEARS,satara
3	Bhaskar Ashutosh Subhash	SAI GEARS,satara
4	Lankeshwar Abhishek Hanmant	SAI GEARS,satara
5	Pawar Sagar Dilip	SAI GEARS,satara
6	Waghmare Niranjan Shahaji	Pricol Limited ,pune
7	Pawar Adhishri Shivaji	Pricol Limited ,pune
8	Salunkhe Aishwarya Chandrakant	Menar Auto Components Pvt.Ltd,Bhosari Pune
9	Paramane Arti Devidas	Menar Auto Components Pvt.Ltd,Bhosari Pune
10	Shinde Kunal Narayan	Shinde Kunal Narayan
11	Jagtap Gaurav Pradip	Jagtap Gaurav Pradip
12	Pawar Vaibhav Ananda	Pawar Vaibhav Ananda
13	More Anit Balwant	Trimurti Tools, Satara
14	Jagtap Aditya Sunil	Dogus Soma JV,Mumbai
15	Patil Rohit Rawinder	Emerson Process Management,Pune
16	Chikane Rushikesh Shekhar	BSA Corporation Ltd,Pune
17	Kadam Gaurav Rajendra	SBRS Machines PVT.LTD.Bhosari,Pune
18	Bhilare Omkar Laxman	Shardadeep Automobile Pvt.Ltd.Satara
19	Nadaf Sahil Shekhal	Mutha Engineering Pvt.LTD.Satara
20	Bhosale Prathamesh Pramod	Unitech Corporation PVT.LTD.Pune
21	Gaikwad Aniket Sachin	DelVal flow Controls Private Limited, Satara
22	Jagtap Rushikesh Madhukar	ACG Associated Capsules Pvt.Ltd,Satara
23	Dhane Nikhil Sunil	DelVal flow Controls Private Limited, Satara
24	Jambhale Akshay Maruti	Jay Maharashtra Engineering,Satara
25	Thorat Vaibhav Ravindra	Jay Maharashtra Engineering,Satara
26	Ghorpade Harshad Ramdas	Mutha Engineering Pvt.LTD.Satara
27	Madane Akanksha Manik	Mutha Engineering Pvt.LTD.Satara
28	Panaskar Pratik Chandrkant	Mutha Engineering Pvt.LTD.Satara

A		
29	Dhole Omkar Anil	Ognibene India PVT.LTD,Pune
30	Kumbhar Ganesh Suresh	Shri Jagadamba Engineering Woeks,Satara
31	Bhoite Rupesh Popatrao	Bharat Forge Ltd,Baramati
32	Dubal Nandkumar Sanjay	Kinetic Electric Motor CO.PVT.LTD,Pune
33	Shinde Sanket Hemant	Span Filtration Systms PVT.LTD.Pune
34	Ghadage Kishor Laxman	Ognibene India PVT.LTD,Pune
35	Bhosale Nikhil Bhauso	Om Enterprises,Satara
36	Pustake Utkarsh Ravindra	Om Enterprises,Satara
37	Jadhav Rushikesh Mahadev	Jay Maharashtra Engineering,Satara
38	Lokare Vinayak Shankar	Jay Maharashtra Engineering,Satara
39	Ahire Akshay Arun	Jay Maharashtra Engineering,Satara
40	Pawar Rajesh Ramchandra	Indreshwar Sugar Mills Ltd.Pune
41	Kalkundrikar Rahul Maruti	Varad Engineering,Satara
42	Kadam Abhijeet Deepak	Varad Engineering,Satara
43	Powar Ashutosh Anil	Advent Foodtech,Pune
44	Sawant Shubham Rajendra	Suzlon Energy Ltd.Pune
45	Bhoite Deepak Avinash	Cooper Corporation PVT.LTD.Satara
46	Kamthe Shriram Shashikant	Nilsan Engineering Solutions
47	Shinde Prathamesh Niraj	Bharat Forge Ltd,Pune
48	Jadhav Sushant Samadhan	Cooper Corporation PVT.LTD.Satara
49	Patil Shubham Sanjay	Cooper Corporation PVT.LTD.Satara
50	Chavan Shweta Hanmantrao	Yashaswi Academy For Skills
51	Mane Pratik Sanjay	Yashaswi Academy For Skills
52	Lembhe Akash Avinash	John Deere,Pune
53	Chavan Rushikesh Dasharath	ACG Associated Capsules Pvt.Ltd,Satara
54	Jadhav Swapnil Sitaram	Tech Mahindra ,Pune
55	Mulla Faraj Ismail	Peacock Allied Products PVT.LTD.Satara
56	Inamdar Omkar Suresh	Fortune Machines & Tools.CO, Satara
57	Jarag Lakhan Kisan	Peacock Allied Products PVT.LTD.Satara
58	Suryawanshi Pratiksha Ravindra	Precision Masters,Karad
59	Yadav Aniket Anil	Mahindra & Mahindra Limited.Pune
60	Khuspe Mayur Shankar	Mahindra & Mahindra Limited.Pune
61	Desai Muskan Nisar	ILJIN Global India PVT.LTD.Satara
62	Shinde Vesant Vikas	Shardadeep Automobile Pvt.Ltd.Satara
63	Desai Ranjeet Bhaskar	Jay Maharashtra Engineering,Satara
64	Jadhav Omkar Prakash	Shree Mahalaxmi Services , Pune
65	Shinde Prajwal Sunil	Shree Mahalaxmi Services , Pune
66	Kanase Akash Rajendra	SHREE SWAMI ENGINEERING WORKS,Satara
67	Mohite Vaibhav Vasant	Shree Mahalaxmi Services , Pune
68	Suryawanshi Hurshikesh Prakash	KSB,Pumps,Pune

69	Jagadale Aniket Raju	Nexteer Automotive India Private Limited, Bengaluru
70	Tikadar Sourav	Neosym Industry Limited, Pune
71	Shelke Rupesh Sunil	Shree Mahalaxmi Services, Pune
72	Sutar Jyoti Dattatray	Tata Cummins PVT LTD ,Phaltan
73	Bhosale Asmita Ananda	GE India Insustrial Pvt Ltd,Pune
74	Pawar Pramod Bhiku	SKF India Limited,Pune
75	Pawar Ashish Bhiku	SKF India Limited,Pune
76	Yadav Omkar Jayant	Gangotri Auto Engineering,Satara
77	Dixit Suraj Bhalchandra	Gangotri Auto Engineering,Satara
78	Pandharpatte Ajinkya Kalidas	Pandharpatte Ajinkya Kalidas
79	Chavan Shubham Sanjay	Chavan Shubham Sanjay
80	Kanase Raviraj Dadasaheb	Kanase Raviraj Dadasaheb
81	Shewale Nikhil Vilas	Kalburi Stamping ,Karad
82	Pawar Vaibhav Rajaram	Shardadeep Automobile Pvt.Ltd.Satara
83	Deshmukh Rohan Pandurang	Sawant Engg.Works,Satara
84	Shewale Mayuri Bhimrao	Safim Brakes India Pvt.Ltd,
85	Shikalgar Aarjun Majanu	Randstsd India Pvt Ltd. Chennai
86	Sawant Nikita Namadev	Universal Solution,Pune
87	Bhosale Sakhi	Yashaswi Academy For Skills
88	Kadam Chandrasen Bharat	Amit Engineering works
89	Desai Pavan Vijay	BVG INDIA LTD, Satara
90	Madhave Rohit Kailas	Maharashtra Scooters LTD.Satara
91	Bhandare Prasad Dilip	Savi Engineering Workd
92	Attar Aman Akbar	Savi Engineering Workd
93	Pol Yougesh Shivaji	Om Enterprises,Satara
94	Jadhav Suraj Bajirao	Om Enterprises,Satara
95	Mujawar Nayum Ajim	Om Enterprises,Satara
96	Shinde Pratik Sudhakar	GS PEB & Civil Works PVT.LTD,Pune
97	Tavare Shambhuraj Kuber	Avadhut Engineering Services,Kolhapur
98	Monde Mayur Dilip	John Deere,Pune
99	Pawar Abhijeet Pradip	Shardadeep Automobile Pvt.Ltd.Satara
100	Kadam Swapnil Mohan	Shardadeep Automobile Pvt.Ltd.Satara
101	Bhosale Indrajeet Laxman	Shardadeep Automobile Pvt.Ltd.Satara
102	Ghorpade Akshay Gulab	Shardadeep Automobile Pvt.Ltd.Satara

Table B 2.2.5 d Student Training Information CAYm2(2020-2021)

1	Chavan Rushikesh Pradeep	SeaLink Infotech, Pune
2	Kakade Rushiraj Rajiv	Mutha Engineering Pvt Ltd Satara

1		
3	Bhosale rohit Mohan	Precise Systems Satara
		SBK Machinery & Consultancy Services,
4	Sutar Sachin Basavraj	Koregaon
5	Mulik Akash Dipak	Abhijat Equipments Pvt Itd Satara
C	Kadam sanash Kamlakan	Kinetic TalgeneElectrical Co. Pvt ltd,
6	Kadam ganesh Kamiakar	Pune Kinetic Taigone Electrical Co. But Itd
7	Kankekar Vogesh Ashok	
,		Kinetic TaigeneElectrical Co. Pyt ltd
8	Patil Snehal J	Pune
		Kinetic TaigeneElectrical Co. Pvt ltd,
9	Pawale Hrituja Ramakant	Pune
10	Bagwan Rajin Rais	Transmetal industries Satara
11	Shinde Akshay Arvind	Transmetal industries Satara
12	Shinde Aniket Chandrashekhar	Transmetal industries Satara
13	Chavan Akash Sanjay	Transmetal industries Satara
14	Ubale Sagar Chandrakant	Om Enterprises, Satara
15	Gaikwad Prashant Tukaram	Om Enterprises, Satara
16	Deshpande Aditya Ajit	Om Enterprises, Satara
17	Bhosale Vishal Rajan	Om Enterprises, Satara
18	Teli Nilesh Hiralal	Om Enterprises, Satara
19	Mardhekar Parag Tanaji	Kavade Engineering Works Satara
20	Bhokare krushna Rajendra	Kavade Engineering Works Satara
21	Ghadhave Abhijeet Bhanudas	Kavade Engineering Works Satara
22	Deshmukh Aishwarya Santosh	Gaurav machine Tools, Kolhapur
23	Chavare Sourabh Subhash	Gauray machine Tools, Kolhapur
24	Kharade dattatray Sadashiv	Gauray machine Tools, Kolhapur
25	Gaikwad Vishal Raiu	Gurukrupa Industries. Pune
26	Sutar Abhishek Baliram	Pricol limited. Pune
27	Shinde Indraiit Vilas	Speciality Sintered Pyt Ltd. Shirwal
28	Nadaf Waseem harun	ZE India Pyt Ltd. Chakan
29	Bhosale Snehal Santosh	Kavade Engineering Works Satara
30	Darekar Aniket Avinash	Spicer India Pyt Ltd. Satara
30	Navkude Aakash Sunil	Spicer India Pvt Ltd, Satara
22	Katkar Abhishek Shankarrao	Spicer India Pyt Ltd, Satara
22	Hasabe Anil Shivaii	Speciality Sintered Dyt Ltd Shirwal
24	Indhay Shantanu Vijay	7E India Dut Ltd. Chakan
25	Harano Digambar Achok	Zi mula Evi Liu, Chakan
26		Li muld FVL LLU, ChidKall
30	Patil Diguiau Davis deluces	Karau Prjecis anu Wotors Liu, TasaWade
3/		
38	Kumbhar Siddhesh Dattatray	S.V. Core Works Kirloskar Vadi

39	Gaikawad Aniket Raju	Gurukrupa Industries, Pune
40	Mohotkar Mahesh Sanjay	Kavade Engineering Works Satara
41	Phalke Tushar Siddharth	Kavade Engineering Works Satara
42	More Shweta Subhash	Ashwini Academy for Skills, Wagholi.
43	Tarade Priyanka Dattatray	Ashwini Academy for Skills, Wagholi.
44	Salunkhe Akash Lahu	Alicon Cst Alloy Ltd, Shikrapur
45	Phalke Suraj namdev	S.B.E.M Pvt Ltd Pune
46	Bagane Vivek Vijaykumar	OEN India Ltd, Pune
47	Nikam Akash Sunil	Yash Industries, Karad
48	Gogavale Dhanraj laxman	OEN India Ltd, Pune
49	Pandharpatte Rugveda Ramesh	OEN India Ltd, Pune
50	Suryavanshi Aparna Vasant	Cummins India Pvt Ltd, Phaltan
51	Lad kavita Rajesh	Cummins India Pvt Ltd, Phaltan
52	Gaikwad Shubham Vivek	Kavade Engineering Works Satara
53	Borate Akash Narendra	Dana Anand India Pvt Ltd, Satara
54	S. Mohammad Rafeeq	Satara metal Works, Satara
		Kinetic TaigeneElectrical Co. Pvt ltd,
55	Kodag Shubham Baban	Pune
56	Nikam Akash Paburao	Kinetic TaigeneElectrical Co. Pvt ltd,
50		Kinetic TaigeneElectrical Co. Pvt ltd
57	Pimple Onkar D	Pune
58	Dhanave Pratik Ramesh	Maark Industry Satara
59	Sapkal Vrushabh vasant	Maark Industry Satara
		Kisanveer Sahakari Sakhar Kharkhana,
60	Bhosale Shraddha Yashwant	Bhuinj
61	Sawant Nikhil Vishnu	Omkar Engineering Wai
62	Bhosale Sushant Ravindra	Omkar Engineering Wai
63	Shedge Akshata	PR Engineering Satara
64	Shirke Mayur Namdev	PR Engineering Satara
65	Patel Arbaaj Jiyauddin	P Bells India Satara
66	Rohile Nihal Anjumanali	Gurukrupa Industries, Pune
67	Kadam Pushpal Nayaku	Shripad Engineers, Baramati
68	Sathe Shubham Satish	Maark Industry Satara

Table B 2.2.5 e Student Training Information CAYm3(2019-20)

Sr. No	Name	Compony Name
1	PISAL SONALI ANIL	SHIVRAM INDUSTRIES
2	PATIL SHUBHAM ANANDA	ТАТА

3	SOHEL SIKANDAR MOAKSHI	OM INTERPRISES
4	PAWAR PRATHMESH PRAKSH	SAWANT ENGG WORKS
	CHANDRKANT JAGGNATH	
5	SALUNKHE	MAHARSTRA SCOOTER
6	RAHUL ASHOK JADHAV	FABTECH TECHNOLOGIES
7	SURVSHE SHUBAHM SURESH	AMOL ENGG WORKS,KUPWAD
8	KETAN DADASO MANE	TRIMURTI ENGG,TASWADE
9	PRIYANKA MARUTI BHILARE	POWER FIBRICATERS.WAI MIDC
10	BHOSALE VAIBHAV DATTATRAY	PRIYANKA ENGG WORKS,SHINDEWADI
11	BHOSALE VAIBHAV DATTATRAY	PRIYANKA ENGG WORKS,SHINDEWADI
12	VIJAY SANJAY GHADAGE	BCON GIEAR TRANSMISSION, SATARA
13	SHIVAJI SARJERAO PAWAR	SAISERVICE ELECTRICALS, SHIRLOLI MIDC
14	TESHREE SANJAY KADAM	CHNDRASSENELCTRICAL CO, GODOWALI
15	SNEHAL KAILAS POL	CHNDRASSENELCTRICAL CO, GODOWALI
16	MAHESH ANAND JADHAV	SAISERVICE ELECTRICALS, SHIRLOLI MIDC
		POWER ELECTRICAL AND MOTOR
17	PAWAR SHUSHANT VINAYAK	VAINDING WATHAR
18	SHINDE AKSHAY ARVIND	SHIVAM ENGG,SATARA
	SHINDE ANIKET	
19	CHANDRASHEKAR	SHIVAM ENGG,SATARA
20	AVINASH RAMESH MATRE	ZERG CORPORATION,SATARA
21	PAWLE HRITUJA RAMAKANT	SHIVAM ENGG,SATARA
22	KADAM ABHIJEET DIPAK	SHIVAM INDUSTRIES ,SATARA
23	DHANE NIKHIL SUNIL	COOPER CORPORATION, SATARA
24	RUPESH POPATRAO BHOITE	SJ CONTRACTS,PUNE
25	ASAWALE SURAJ DNYANDEV	SHREE MACHINE TOOL, THANE
26	KIRAN TULASHIDAS DALAVI	GURUDATTA ENGG WORKS, PUSEGAON
	AISHWARYA CHANDRAKANT	
27	SALUNKE	BK ENGG, IASWADE
28		DSK ENGG SURVICES
20		
25	PRATIK CHANDRAKANT	
30	PANASKAR	COOPER CORPORATION.SATARA
31	RUSHIKESH DASHRAT CHAVAN	SHIVAM INDUSTRIES .SATARA
32	VAIBHAV MOHAN MOHITE	SHIVAM INDUSTRIES SATARA
33	KRISHNA POPAT NAGARGOJE	SHIVAM INDUSTRIES SATARA
34	SAHII SHEKHI FI NADAF	ADITYA ENGG WORKS SATARA
25		
36		
37		PRESS COM ENGG SURVICES

38	NIKHIL BHAUSO BHOSALE	SHIVRAM INDUSTRIES, SATARA
39	ASHUTOSH ANIL PAWAR	REMON-LUXURY COTTON, KOLHAPUR
40	JOYTI APPASAHEB GUNDEWADI	AMOL ENGG WORKS, KUPWAD
41	SHIVANI RAJENDR KAKDE	SHIVRAM INDUSTRIES, SATARA
42	SAYALY PRBHAKAR BHOSALE	SHIVRAM INDUSTRIES, SATARA
43	SWAPNITA SATISH DEKHNE	SHIVRAM INDUSTRIES, SATARA
44	PRAGTI CHANDRKANT PATIL	TRIMURTI ENGG,TASWADE
45	ONKAR PANUDURANG MANE	TRIMURTI ENGG,TASWADE
46	RAVINA SADANAND PATIL	SDVS SAKHR KARKHANA,KAGAL
	RUSHIKESH MAHAVEER	
47	BHABAN	POWDERCRAFT,KAGAL
		SHUBHAM BIZ FACILITY
48	SHUSHANT SAMBHAJI MANE	MANAGEMENT, CHINCHWAD
		TECHNOBUZZ DIES AND MOULDS
49	AJINKYA PRATAP BARGE	,SATARA
50	TUSHAR MAHADEV GHANVAT	PRICOL WIPING SYSTEM ,SATARA
	KANCHAN CHANDRAKANT	
51	GAIKWAD	POWER FAIBRICATORS ,WAI



Figure B.2.2.5a Industrial/Internship/Summer Training Record Book

NO.	Date	Task Completed	Student's Signature	Officer's Signature
1.		To study the standard		
2	5.03-	operation process on		
з.	32	assembly line	Am GE	Queen
4.		e de la constante de		
5.				
6.				
Sr. No.	Date	Task Completed	Student's Signature	Officer's Signature
1.		to rearn the		
2.	10-00	control plan and the	= Zallacher	A
3,	- 3.2-	worsteing safety points		
4.		in assembly line		
5.		24		
6.				
Sr. No.	Date	Task Completed	Student's Signature	Officer's Signature
1.		To study the main		
2.	15-03	product wooking and	- Jogwore	grand
3.	- 22	their operation in	-	
4.		line assembly		
		đ		
5,				
5, 6.				

Figure B.2.2.5 b Industrial/Internship/Summer training attendance

Post Training Assessment

'Io w	hom it ma	y Concern	£	
No A TO LATE AND AND AND ST	albanshri	wiley i	Garners	
wawaya he at Mecha	oingly free		1400	2002
Cathra Ras (new automore and	Intinity	Sauchier 3	Contractor	as Burne
a reveal discovery same of the	1 /valan	avagran.	3.1-1-1-A	d'attace
have a local second second second	1//#/#.		51/5/2	0
and a percentarice of the condicate +	rakated on following	parameters for aca	dense purpsaa	
Parameters	Heeds Improvement	Satisfactory	Good	Excellent
Befailty			2	
Performs in a dependative minimar				100
Cooperatos with co-exakens and ingenerators				
Shows interest in work				12
Learns quickly				P
Shown restative		_	1	
Produces high quality work			1	-
Alcepts responsiblely			~	00
Accepts (100,000				122
Demonstrates organizational skills		1.		12
Uses technical knowledge and expertise				~
Shows good judgement			1	
Deministrates creativity/originality			1	
Analyzes problems effectively			V	11.2
is self-relarit				N.
Communication well			-	-
WVes statting				1
Hat a professional attracte			V	-
Gives a professional appriarance			1	
In purchase			1	1
Uses the affectively				1
Pet XCTE Homain Policy Guideline We with Testher every success in Vedatly Medics Rame Chefornal, Path Designation, HOD HF, Dio Row March Des	i and Pricedure Page He. / Data HTD 90.3:	- X2	144444	

Figure B.2.2.5 c Sample Industrial/Internship/summer training Assessment Sheet



Figure B.2.2.5 d Sample Industrial/Internship/Summer training completion certificate

_						ATC:	2.0				-		_		_
Sub	ject			10	terns	hip/	Proj	ict #	ork						
0	0	- 33	Dit cor	*plic	os of t	Nis ces	194, B	ubirt	s will b	e sbio	19		Cogniti	velev	۲
0	71	Identit	y engi	eeing	proces	ises re	event	100	statty			11			
α	92	Under	stand i Yes	P4 110	dem to	ots and	i techni	Ques of	eed in a	i hee	al.		1	E.	
0	28	55.0y mate	d te arm	TROOLE	005 780	viret a	nd plan	151958	tacits	in Proj	eti.	•	L.	t	
0	. HC	Analy	sis of i	dum	al acesa	vislami	-		-				U	E.	
Ta	rget	Level	*												
8	i	202	101	104	101	104	2.04	101	200	PO 10	11.04	5012	P30.1	2054	1014
001	3	1		3		2	2		1	-		7	1	2	2
c02	1	1	1	+	+	8			•		+	2	t.	-	
C03	2	2	2	1		16	۲	(0)		(4)	(3)	20	2.		
C04	1					3	3			-	1	-	2	-	-
Arg.	1	2.33	1.5	3	0	2	2.5		3		2	2	1.75	2	1
At	ainm	ent Les	 in				-		_			11			
8	i	101	502	804	101	2	ŝ	101	2	8.02	10	#0.12	1054	1001	1.044
CD1	2	2		2	1	1	1	-	1		-	100	2	2	2
C02	2	194	1		•	-		3	-	+		3	Ŧ	10	
C03	2	2	3	-	1	1		1	10	10	-	ч.	R.	1	
004	1	10			1	1	9	14	+	1	2	100	2	-	-
Arg	1.75	\$2	1.5	12	0	1	2		2	0	2	2	1.35	2	2

Figure B.2.2.5 e Sample Industrial/Internship/Summer training outcome mapping to program outcome.



Figure B.2.2.5 f Training & Placement Officer Visit to Internship Company

C. Impact Analysis:

- These training programs have helped students in the development of good projects in their final year.
- Students learn the industry standards and workplace culture.
- Students gain the basic needed skills for the development of real-world projects.
- Gain valuable work experience.
- Students gain confidence.
- The communication skills of the students improved.
- To expand teamwork and leadership skills.
- The internship program helps students get placed in the same domain or same company as that internship.

Student Feedback on Initiative

- The feedback on the initiative taken by the program is collected from the students when he joins back the institute after the completion of the internship in the industry.
- The feedback is conducted to understand the satisfaction of the students with the initiative and the scope for improvement in the initiative for future students.
- It is observed that the initiative is helpful for the students from the perspective of career advancement and life-long learning.
- The feedback of the students is also taken while submitting the report. The sample feedback form is as below.

Internship/ Field Training Feedbac Students should give feedback of Internship/ Field Training.	ck
egeepac2019@gmail.com (not shared) Switch accounts	e
Are you satisfied with training initiative? *	
Ves	
O NO	
Have you received internship/ training letter from organization? *	
O Yes	
O No	

Have y	ou got guidance from supervisor/ senier members? *
O Ye	6
() No	2
Have y	ou observed safety measures/precautions taken while working? *
O Ye	s
() No	
Have y	ou applied engineering knowledge during training? *
⊖ Ye	s
() No	
Have y	ou identified latest tools and technologies? *
() Ye	s ;
	1

Have you got	pportunity to work in team? *	
O Yes		
O No		
Was there arr	le opportunity of Learning? *	
O Yes		
Would you re	ommend your juniors for training in this company? *	
O Yes		
O No		
Have you got	ealistic preview of career field ? *	
O Yes		
O No		

	Google Forms
This cornect is neither created in	or endorsed by Goople, <u>Report Aturas - Jerma of Service</u> - Privacy Palloy
liever submit passwords through Goop	gle Forma.
Submit	Clear form
Your answer	
0.07501.0303	
Suggestions *	

Figure B.2.2.5 g Sample Feedback Form of Industrial Training/Internship

CRITERION 03	COURSE OUTCOMES AND PROGRAM OUTCOMES	120
-----------------	---	-----

A.Y. 2022-23

3.1. Establish the correlation between the courses and the Program

Outcomes (POs) and Program Specific Outcomes (PSOs) (20)

Program Outcomes as mentioned in Annexure-I and Program Specific Outcomes as defined by the Program.

A. PROGRAM OUTCOMES (POs)

	The students of Mechanical Engineering will be able to:
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.			
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.			
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.			

B. PROGRAM SPECIFIC OUTCOMES (PSO)

Mechanical Engineering graduates will be able to						
PSO1	The students will be able to acquire competencies in the usage of design, thermal an manufacturing principles to develop a					
	product and process.					
PSO2	The students will be able to impart technological inputs and acquire managerial skills to become technocrats and entrepreneurs.					

3.1.1. Course Outcomes (COs) (SAR should include course outcomes of one course fromeach semester of study, however, should be prepared for all courses and made availableas evidence, if asked)(05)

Sem	Course	CO	Course Outcome
SEM-3	Thermodynamics (BTMEC305)	BTMEC305.1	Define the terms like system, boundary, properties, equilibrium, work, heat, ideal gas, entropy etc. used in thermodynamics.
		BTMEC305.2	Explain different laws of thermodynamics and apply these to simple thermal systems to study energy balance.
		BTMEC305.3	Apply Carnot theorem to heat engine and heat pump, Clausius theorem, Clausius inequality
		BTMEC305.4	Analyze the universal gas constant, ideal processes with question for ideal gas, p-v, T-s, and h-s diagrams properties of steam. Solve problems related to temperature measurement, study flow energy equation, first law of thermodynamics etc.
	Theory of Machines I (BTMEC 402)	BTMC402.1	Discuss the terminology and various concepts of mechanisms, friction and lubrication.
SEM 4		BTMC402.2	Determine the velocity and acceleration of various types of mechanisms.
5EIVI-4		BTMC402.3	Classify various follower motions by drawing the cam profiles.
		BTMC402.4	Evaluate the performance of clutch, brakes, dynamometers and balancing machines.
	Theory of Machines II (BTMEC 504)	BTMOE504.1	Discuss the terminology and working principles for various types of transmission drives.
		BTMOE504.2	Calculate velocity ratio and power transmitted by transmission drives.
SEM-5		BTMOE504.3	Analyze the performance of governor, flywheel and gyroscope
		BTMOE504.4	Evaluate the effect of various types of vibration on mechanical systems.
SEM-6	Applied Thermodynamics- II (BTMEC603)	BTMOE502.1	Define the nomenclature related to IC engines, fundamental difference between SI and CI engines.
		BTMOE502.2	Explain Various Engine Systems, Engine Testing and Performance of SI and CI Engines
		BTMOE502.3	Apply the methods of cooling, Refrigeration systems, Thermodynamics of Refrigeration, Air refrigeration system.
-------	---------------------------------	-------------	---
		BTMOE502.4	Analyze the types of Power Plant like Thermal Power Plant, Diesel Power Plant, Gas Turbine power plant, Hydro-electric Power Plant, Nuclear Power Plant
		BTMEC704B.1	Define the terms related management like, functions of management, evolution of management theory, contributions of Taylor, Fayol and others
SEM-7	Industrial Engineering	BTMEC703.2	Explain Leading: Managing and human factor, motivation, leadership, morale, team building, communication. Controlling: The system and process of controlling control techniques, overall and preventive control
	and management (BTMEC704B)	BTMEC703.3	Apply Operations management in corporate profitability and competitiveness, types and characteristics of manufacturing systems, types and characteristics of services systems.
		BTMEC703.4	Analyze Concurrent Engineering: Producibility, manufacturability, productivity improvement, Total Quality Management: Just in time (JIT), total quality control, quality circles, six sigma
	Non-Conventional	BTMEC802F.1	Demonstrate the generation of electricity from various non-conventional sources of energy, have a working knowledge on types of fuel cells.
SEM-8	Energy Resources (BTMEC802F)	BTMEC802F.2	Estimate the solar energy, Utilization of it, Principles involved in solar energy collection and conversion of it to electricity generation.
		BTMEC802F.3	Explore the concepts involved in wind energy conversion system by studying its components, types and performance
		BTMEC802F.4	Illustrate ocean energy and explain the operational methods of their utilization.

3.1.2. CO-PO matrices of courses selected in 3.1.1 (six matrices to be

mentioned; one per semester from the 3rd to the 8th semester) (05)

All the courses in curriculum are studied in detail and correlation with POs and PSOs are declared. Six matrices are mentioned here from the 3^{rd} to the 8^{th} semester. Record for all courses is available with the program.

CO-PO matrices

	Course Name: BTMC305												
Course				Progra	m Out	come (PO)						
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
BTMES305.1	3												
BTMES305.2	3	2	2									2	
BTMES305.3	2	3	3				2			3		3	
BTMES305.4			3							2		2	
Average	2.67	2.50	2.67				2.00			2.50		2.33	

	Co	Course Name: BTMEC 402										
Course Program Outcome (PO)												
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTMC402.1	2			1		1				1		1
BTMC402.2	3	2	2	1		2						
BTMC402.3	3	3	2	3	2	2	1					1
BTMC402.4	3	3	2	3	2	3	1	1				
Average	2.75	2.67	2.00	2.00	2.00	2.00	1.00	1.00		1.00	0.00	1.00

		Course Name: BTMEC504													
Course		Program Outcome (PO)													
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12			
BTMOE504C.1	2			1		1				1		1			

BTMOE504C.2	3	2	2	1		2				
BTMOE504C.3	3	3	2	3	2	2	1			1
BTMOE504C.4	3	3	2	3	2	3	1	1		
Average	2.75	2.67	2.00	2.00	2.00	2.00	1.00	1.00		1.00

		Course Name: BTMEC603										
Course					Pro	gram Outcome (PO)						
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTMEC603.1	3											
BTMEC603.2	3	2	2									2
BTMEC603.3	2	3	3			2						3
BTMEC603.4			3			2	2		1			2
Average	2.67	2.50	2.67			2.00	2.00		1.00			2.33

		Course Name: BTMEC704B													
Course Outcome	Program Outcome (PO)														
outcome	PO1	PO2	PO3	P O4	PO5	PO 6	PO7	P O8	PO9	PO10	PO11	PO12			
BTMEC704B .1	3														
BTMEC704B .2	3	2	2									2			
BTMEC704B .3	2	3	3				2			3		3			
BTMEC704B .4			3							2		2			
Average	2.67	2.50	2.67				2.00			2.50		2.33			

		Course Name: BTMEC802F													
Course		Program Outcome (PO)													
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12			
BTMEC802F.1	1			1		3	2			1		1			
BTMEC802F.2	2	2	1	1		2	3								

BTMEC802F.3	2	1	2	2	2	2	3			1
BTMEC802F.4	3	2	2	2	2	3	3	1		
Average	2.00	1.67	1.67	1.50	2.00	2.50	2.75	1.00	1.00	1.00

CO-PSO matrices

Course Name: BTMEC305										
Course	PSO1	PSO2								
BTMEC305.1	1									
BTMEC305.2		2								
BTMEC305.3	2	2								
BTMEC305.4	2									
Average	1.66	2.00								

Course Name: BTMEC402										
Course PSO1 PSO2										
BTMEC402.1	1									
BTMEC402.2		2								
BTMEC402.3		2								
BTMEC402.4	2									
Average	1.50	2.00								

Course Name: BTMEC504										
Course	PSO1	PSO2								
BTMEC504.1	1	1								
BTMEC504.2		2								
BTMEC504.3		2								
BTMEC504 .4 2										
Average	1.50	1.66								

Course Name: BTMEC603								
Course	PSO1	PSO2						
BTMEC603.1	2							
BTMEC603.2		2						
BTMEC603.3								
BTMEC603.4								
Average	2.00	2.00						

Course Name: BTMEC704B						
Course	PSO1	PSO2				
BTMEC704B.1	1					
BTMEC704B.2		2				
BTMEC704B.3	2	2				
BTMEC704B.4	2					
Average	1.66	2.00				

Course Name: BTMEC801F									
Course PSO1 PSO2									
BTMEC801F.1	1	· · ·							
BTMEC801F .2		2							
BTMEC801F.3		2							
BTMEC801F.4	2								
Average	1.50	2.00							

3.1.3. Program level Course-PO matrix of all courses INCLUDING first year courses (10)

CO-PO correlation matrix for all courses in the program is given below. Course code is mentioned in the first column and correlation with POs is indicated as 1) slight, 2) moderate and 3) High. Courses not having any correlation is indicated by '-'. This correlation is derived from CO-PO mapping of the individual course. Average of all COs is taken and mapped at level 1, 2 and 3.

Class	Course Name & Code	PO1	PO2	PO3	PO4	POS	PO6	PO7	PO8	PO9	PO10	PO11	PO12
		101	102	105	104	105	100	107	100	10)	1010	1011	1012
		1.50	2.25	2.00	2 00		1.00					1.50	1.22
FY-SEMI	Engineering Mathematics – I	1.50	2.25	2.00	2.00		1.00					1.50	1.33
	Engineering Physics	2.00	2.00	2.00	3.00		2.00	2.00					2.00
	Engineering Graphics	1.67	3.00	2.50	3.00	1.67					2.50		2.00
	Communication Skills	2.88				2.88	2.82		2.94		2.92		2.91
	Energy and Environment Engineering	2.33		2.50				3.00	2.00				
	Basic Civil and Mechanical Engineering	2.25	2.00	2.50	2.50		2.00	2.00	2.00		2.50	2.00	
	Engineering Physics Lab	2.65	2.45	2.48	2.71		2.94	2.94		2.94			2.70
	Engineering Graphics Lab	1.67	3.00	2.50	3.00	1.67				2.50	2.50		2.50
	Communication Skills Lab	1.00				1.67	1.67		2.00		3.00		2.75
FY-SEMII	Engineering Mathematics- II	2.75	2.00	1.00	1.50		1.00					3.00	1.33
	Engineering Chemistry	1.75	1.33				1.50	1.00		3.00			
	Engineering Mechanics	2.25	2.50	2.00			3.00			2.00			2.00
	Computer Programming in C	3.00	2.25	2.00						3.00	3.00		1.50
	Workshop Practices	3.00				2.00				3.00	1.00		
	Computer Programming Lab	1.75	2.00	2.25		3.00				2.00	2.50		
	Engineering Mechanics Lab	2.67	3.00	2.00			3.00	1.00		2.00	2.00		
	Engineering Chemistry Lab	1.75	1.33				1.50	1.00		3.00			
	Basic Electrical and Electronics Engineering	3.00					2.00	1.00					
	Mini Project	2.67	3.00			1.00	3.00	2.00	3.00	2.00	2.00		
SY-SEMIII	Engineering Mathematics-III	1.00	1.50	2.00		1.25				2.00		1.00	1.75
	Materials Science and Metallurgy	2.00	1.75	1.50	2.00	3.00	1.50	1.50	1.00	1.00	1.50	0.00	0.00

	Fluid Mechanics	1.50	1.63	1.75									0.88
	Machine Drawing and CAD	2.00	1.75	1.75									0.88
	Thermodynamics	1.63	1.66	1.75		3.00							0.88
	Basic Human Rights	3.00	2.75	2.50	2.75	2.50	3.00	3.00	2.00	3.00	2.00	1.00	3.00
	Materials Science and Metallurgy Lab	2.03	1.95	1.94		3.00				3.00			1.41
	Fluid Mechanics Lab	2.16	2.03	1.98		3.00				3.00			1.54
	Machine Drawing and CAD Lab	1.70	1.65	1.75		3.00							0.88
	Field Training /Internship/Industrial Training I	2.67	2.00	3.00	2.00	2.50	3.00	2.00	3.00	2.67	2.50	3.00	3.00
SV-SEM IV	Manufacturing Processes - I	1.75	1.50	1.00			1.00	1.00			1.00		1.00
51 SEWIY	Theory of Machines-I	2.75	2.67	2.00	2.00	2.00	2.00	1.00	1.00	0.00	1.00	0.00	1.00
	Strength of Materials	2.00	2.67	2.00	2.00	2.00	2.00	1.00	1.00	0.00	1.00	0.00	1.00
	Numerical Methods in Mechanical Engineering	3.00	3.00		1.00	3.00							
	Product Design Engineering – I	3.00	2.75	2.50	2.75	2.50	3.00	3.00	2.00	3.00	2.00	1.00	3.00
	Interpersonal Communication Skill& Self Development	2.00	2.00	1.67	2.00	1.67	1.67	2.00	1.50	3.00	2.00	2.00	2.00
	Manufacturing Processes Lab – I	1.75	1.50	1.00		3.00	1.00	1.00			1.00		1.00
	Theory of Machines Lab- I	3.00	2.75	2.50		3.00	3.00	2.00			2.00		3.00
	Strength of Materials Lab	3.00	2.66	2.50		3.00	3.00	2.00			2.00		3.00
	Numerical Methods Lab	3.00	3.00		1.00	3.00							
SEM V	Heat Transfer	2.25	2.50	2.67	2.00		1.00	1.00	1.00		1.00		2.00
	Applied Thermodynamics – I	2.50	2.50	1.67	2.00	1.00	1.33	1.00				1.00	1.00
	Machine Design – I	1.25	1.25	2.00	1.00	1.00	1.00						1.00
	Theory of Machines- II	2.75	2.67	2.00	2.00	2.00	2.00	1.00	1.00		1.00	0.00	1.00
	Metrology and Quality Control	3.00	3.00	2.00	2.00	3.00						1.00	2.00
	Product Design Engineering - II	2.99	2.99	2.99	2.99	2.99	2.98	2.99	2.99	2.99	2.99	2.99	2.99
	Automobile Engineering	2.75	2.67	2.00	2.00	2.00	2.00	1.00	1.00	0.00	1.00	0.00	1.00
	Heat Transfer Lab	3.00	2.75	2.50		3.00	3.00	2.00			2.00		3.00
	Applied Thermodynamics Lab	3.00	2.25	2.50	2.50	3.00	2.00	2.00	0.00	3.00	2.00	1.67	3.00
	Machine Design Practice- I	3.00	2.75	2.50		3.00	3.00	2.00			2.00		3.00
	Theory of Machines Lab- II	3.00	2.75	2.50		3.00	3.00	2.00			2.00		3.00

	Field training/Internship	2.67	2.00	3.00	2.00	2.50	3.00	2.00	3.00	2.67	2.50	3.00	3.00
TY-SEM VI	Manufacturing Processes- II	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	Machine Design-II	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	Applied Thermodynamics- II	1.50	1.25		1.00		1.00		0.00	0.00	0.00		1.00
	IC Engines	2.67	2.50	2.67		3.00		2.00					2.33
	Renewable Energy Sources	1.50	2.50	2.67		3.00		2.00					2.33
	Solar Energy	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	Metrology and Quality Control Lab	1.50	1.67	2.00	2.00	1.00	1.00	1.50					
	Machine Design Practice-II	3.00	2.00	2.00		3.00		1.00					2.00
	IC Engine Lab	2.00	3.00	3.00	2.00	2.00		2.00			2.00		2.00
	Refrigeration and Air Conditioning Lab	3.00	3.00	2.00	2.00	2.00		2.00			2.00		2.00
	Technical Project for Community Services	2.00	3.00	2.00	2.00	2.00		2.00			2.00		2.00
BTech-SEM VII	Mechatronics	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	CAD/CAM	2.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	Manufacturing Processes - III	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	Industrial Engineering and Management	2.67	2.50	2.67		3.00		2.00			2.50		2.33
	Wind Energy	3.00	3.00	2.67		3.00		2.00			2.50		2.33
	Manufacturing Processes Lab - II	2.75	3.00	2.00			1.00	1.00		1.00	1.00		1.00
	Mechatronics Lab	1.75	1.50	1.00		3.00	1.00	1.00			1.00		1.00
	CAD/CAM Lab	2.75	1.50	1.00		3.00	1.00	1.00			1.00		1.00
	Seminar	1.25	1.50	1.67	1.33	1.67			1.50	1.25	2.00		
	Field Training /Internship/Industrial Training III	2.67	2.00	3.00	2.00	2.50	3.00	2.00	3.00	2.67	2.50	3.00	3.00
	Project Stage-I	2.00	2.00	1.67	2.00	1.67	1.67	2.00	1.50	3.00	2.00	2.00	2.00
	Fundamental of automotive systems												
		2.33	2.33	2.50	2.00	2.33	2.00	2.00		2.00	3.00	3.00	
BTech-SEM VIII													
	Non-Conventional Energy Resourses	2.00	1.67	1.67	1.50	2.00		2.75	1.00				1.00
	Project Stage-II	2.00	2.00	1.67	2.00	1.67	1.67	2.00	1.50	3.00	2.00	2.00	2.00
 	ACTUAL AVERAGE PO	2.40	2.36	2.04	2.23	2.48	1.79	1.72	1.64	2.02	1.81	1.88	1.80

Program level Course- PSO matrix:

CO-PSO correlation matrix for all courses in the program is given below. Course code is mentioned in the first column and correlation with PSOs is indicated as 1) slight, 2) moderate and 3) High. Courses not having any correlation are indicated by-. This correlation is derived from CO-PSO mapping of the individual course. Average of all Cos is taken and mapped at level 1, 2 and 3

	Academic Year: 2020-21		ne Specific e (PSO)
Class	Course	PSO1	PSO2
	Engineering Mathematics – I	2.50	1.50
	Engineering Physics	2.00	2.50
	Engineering Graphics	2.00	
	Communication Skills	2.00	2.50
FY- SEMI	Energy and Environment Engineering	2.00	2.00
	Basic Civil and Mechanical Engineering	2.50	2.00
	Engineering Physics Lab	1.67	2.50
	Engineering Graphics Lab	2.50	
	Communication Skills Lab	3.00	2.00
	Engineering Mathematics- II	2.00	1.00
	Engineering Chemistry	3.00	
	Engineering Mechanics	3.00	2.00
FY- SEMII	Computer Programming in C		
	Workshop Practices	2.00	3.00
	Computer Programming Lab		
	Engineering Mechanics Lab	3.00	1.00

	Engineering Chemistry Lab	2.00	
	Basic Electrical and Electronics Engineering		
	Mini Project	3.00	1.00
	Engineering Mathematics-III	1.99	1.98
	Materials Science and Metallurgy	2.88	2.95
	Fluid Mechanics	2.98	2.96
	Machine Drawing and CAD	2.98	2.96
SY- SEMIII	Thermodynamics	1.33	2.00
	Basic Human Rights	2.93	2.92
	Materials Science and Metallurgy Lab	2.64	2.71
	Fluid Mechanics Lab	2.74	2.74
	Machine Drawing and CAD Lab	2.74	2.74
	Field Training /Internship/Industrial Training I	2.85	2.90
	Manufacturing Processes - I	2.78	2.78
	Theory of Machines-I	2.78	2.76
	Strength of Materials	2.78	2.76
	Numerical Methods in Mechanical Engineering	2.76	2.86
SY- SEM IV	Product Design Engineering – I	2.93	2.92
	Interpersonal Communication Skill& Self Development	2.85	2.90
	Manufacturing Processes Lab – I	2.78	2.76
	Theory of Machines Lab- I	2.78	2.76
	Strength of Materials Lab	2.78	2.76
	Numerical Methods Lab	2.76	2.94
	Heat Transfer	1.50	1.50
TY- SEM V	Applied Thermodynamics – I	1.50	1.50
	Machine Design – I	1.50	1.50
	Theory of Machines- II	1.50	1.66

	Metrology and Quality Control	3.00	1.00
	Product Design Engineering - II	2.99	2.98
	Automobile Engineering	1.50	2.00
	Heat Transfer Lab	1.00	1.50
	Applied Thermodynamics Lab	1.75	2.00
	Machine Design Practice- I	1.00	1.50
	Theory of Machines Lab- II	1.00	1.50
	Field training/Internship	2.67	2.00
	Manufacturing Processes- II	3.00	1.00
	Machine Design-II	1.50	1.50
	Applied Thermodynamics- II	2.00	2.00
	IC Engines	2.00	2.00
TY- SEM VI	Renewable Energy Sources	3.00	1.00
	Solar Energy	1.00	1.00
	Metrology and Quality Control Lab	3.00	2.00
	Machine Design Practice-II	2.00	2.00
	IC Engine Lab	2.00	2.00
	Refrigeration and Air Conditioning Lab	2.00	2.00
	Technical Project for Community Services	2.67	2.00
	Mechatronics	3.00	1.00
	CAD/CAM	3.00	1.00
BTech- SEM	Manufacturing Processes - III	3.00	1.00
7 11	Industrial Engineering and Management	1.66	2.00
	Wind Energy	1.50	2.00
	Manufacturing Processes Lab - II	3.00	1.00

	Mechatronics Lab	3.00	1.00
	CAD/CAM Lab	3.00	1.00
	Seminar	1.25	1.00
	Field Training /Internship/Industrial Training III	2.67	2.00
	Project Stage-I	2.00	2.00
	Fundamental of automotive systems	1.50	2.00
BTech- SEM VIII	Non-conventional Energy Resources	1.50	2.00
	Project Stage-II	2.00	2.00
Average PSO		2.21	1.62

3.2 Attainment of Course Outcomes

(50)

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

(Examples of data collection processes may include, but are not limited to tutorial questions, assignments, laboratory tests, project evaluation, student portfolios(A portfolio is a collection of artifacts that demonstrate skills, personal characteristics and accomplishments created by the student during study period), internally developed assessmente xams, project presentations, oral exams etc.)

The key aspects in Outcome Based Education (OBE) are the assessment of course outcomes. At the initial stage of OBE implementation, the Course Outcomes (COs) for each course are defined based on the Program Outcome (POs) and other requirements. At the end of each course, the COs needs to be assessed and evaluated, to check whether it has been attained or not. Assessment is one more processes, carried out by the department, that identify, collect, and prepare data to evaluate the achievement of program educational objectives and program outcomes. Attainment is the action or fact of achieving a standard result towards accomplishment of desired goals. Primarily attainment is the standard of academic attainment as observed by test or examination result. Attainment of the COs can be measured by using direct and indirect tools. Direct attainment basically displays the student's knowledge and skills from their academic performance. It can be determined from the performance of the students in all the relevant assessment tools – like internal assessments, assignments, quiz and final university examination etc. These methods provide a sampling of what students know and /or actions they can perform, offering substantial.

This program consists of various types of courses for fulfillment of POs and PSOs. The process of data collection for attainment of COs is properly identified depending on the type of course. Major types of courses are

- 1. Theory
- 2. Practical/Oral/TW
- 3. Tutorial
- 4. Seminar
- 5. Project
- 6. Audit course

The Institution strives hard to ensure that the Learning across all the courses of the curriculum is Outcome oriented. There is continuous assessment of learning outcomes attainment and this procedure has been refined over a period of time.

The following are the two broadly classified tools used for assessment of Learning Outcome Attainment

• Direct Assessment Method:

Data collection mechanism includes direct assessment process which is

Theory

- 1. Continuous Assessment Test 1
- 2. Mid Semester Examination
- 3. Continuous Assessment Test 2
- 4. End Semester Examination

Lab

- 1. Continuous Assessment Test 1
- 2. Continuous Assessment Test 2
- 3. End Semester Examination

Data collection process for all above type of courses is clearly defined in table 3.2.1a given below.

Table 3.2.1a: Assessment Tools

Sr. No.	Assessment tools	Tool type	Time Span
1	Continuous Assessment Test1[CA1]		One test/semester
2	Mid Semester Examination [MSE]	Direct	One test/semester
3	Continuous Assessment Test 2 [CA2]	Assessment	One/Semester
4	End Semester Examination [ESE]		One/Semester

Lab

Sr.	Assessment tools	Tool type	Time Span
No.		• •	-
1	Continuous Assessment Test1[CA1]		One test/semester
2	Continuous Assessment Test 2[CA2]	Direct	One test/semester
3	End Semester Examination [ESE]	Assessment	One/Semester

Course Outcomes for the entire course are defined and they are 4 in number. As the program is affiliated to DBATU, external assessment is done as per the evaluation scheme of university and internal assessment is done as per the policy of the program.

All courses are categorized into 2 categories

- 1. Courses with theory examination: CO attainment is calculated considering 60 % of university examination and 40% of internal semester evaluation (CA1, MSE CA2)
- 2. Courses with practical examination: CO attainment is calculated considering 60% internal evaluation and 40% university examination evaluation

Attainment levels are assigned based on performance in Internal Semester Evaluation and University examinations

Theory

Sr. No.	Assessment tools	Tool type	Attainment Level
1	ContinuousAssessmentTest1[CA1]		3 - 71%-100% 2 - 51%-70% 1 - 40%-50%
2	Mid Semester Examination [MSE]	Direct	3 - 71%-100% 2 - 51%-70% 1 - 40%-50%
3	Continuous Assessment Test 2[CA2]	Assessment	3 - 71%-100% 2 - 51%-70% 1 - 40%-50%
4	End Semester Examination [ESE]		3 - 71%-100% 2 - 51%-70% 1 - 40%-50%

Lab

Sr. No.	Assessment tools	Tool type	Attainment Level
1	ContinuousAssessmentTest1 [CA1]		3 - 81% -100% 2 - 61%-80% 1 - 40%-60%
2	Continuous Assessment Test 2 [CA2]	Direct Assessment	3 - 81%-100% 2 - 61%-80% 1 - 40%-60%
3	End Semester Examination [ESE]		3 - 81%-100% 2 - 61%-80% 1 - 40%-60%

Theory



Lab



Fig2Process of defining CO attainment practical examination

3.2.2 Record of the attainment of Course Outcomes of all courses with respect to set attainment levels (40)

Course Name: Thermodynamics Year: 2020-21 Course Name: BTMC303								
Sem-III	[TT • •.	D' 1D'	Γ	Г		
Course	Assessment Tools	Internal	University	Final Direct				
Outcomes		Assessment	Result	Course	Torrat	Domort		
		Attainment	A 44 - Sec. 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19	A	Target	Kelliark		
			Attainment	Attainment				
C303.1		1.2	1.8	3.00	1.8	Attained		
C303.2	[CA1]/MSE/	1.15	1.8	2.95	1.8	Attained		
	[CA2]/ [ESE]							
C303.3		1.2	1.8	3.00	1.8	Attained		
C303.4		1.2	1.8	3.00	1.8	Attained		

Course Outcome

Attainment: 2.99

Course Name: Theory of Machines I Year: 2020-21							
Course Co	de: BTMEC 402			Se	m-IV		
Course	Assessment Tools	Internal	University	Course			
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark	
C402.1		1.2	1.8	2.95	1.8	Attained	
C402.2	[CA1]/MSE/ [CA2]/ [ESE]	1.15	1.8	2.92	1.8	Attained	
C402.3		1.2	1.8	2.95	1.8	Attained	
C402.4		1.2	1.8	2.96	1.8	Attained	

Course Outcome Attainment: 2.95

Course	Course Name: Theory of Machines II 2021-22								
Course	Course Code: BTMEC 504 Sem-V								
Course	Assessment Tools	Internal	University	Course					
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark			
C504.1		0.9	1.8	2.71	1.95	Attained			
C504.2	[CA1]/MSE/ [CA2]/ [ESE]	1.2	1.8	2.95	1.95	Attained			
C504.3		1.1	1.8	2.84	1.95	Attained			
C504.4		1	1.8	2.78	1.95	Attained			

Course Outcome

Attainment: 2.82

Course Name: Applied Thermodynamics- II Year: 2021-22 Course Code: (BTMEC603) Sem-VI								
Course	Assessment Tools	Internal	University	Course				
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark		
C603.1		1.2	1.8	2.94	1.95	Attained		
C603.2	[CA1]/MSE/ [CA2]/ [ESE]	1.05	1.8	2.85	1.95	Attained		
C603.3		1.2	1.8	2.99	1.95	Attained		
C603.4		1.2	1.8	2.96	1.95	Attained		

Course Outcome Attainment: 2.93

Course Name: Industrial Engineering and management								
Year: 2022-23								
Course Co	de: BTMEC704B	Sem-VII						
Course	Assessment Tools	Internal	University	Course				
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark		
C704B.1		1.2	1.2	2.40	2.1	Attained		
C704B.2	[CA1]/MSE/ [CA2]/ [ESE]	1.1	1.2	2.31	2.1	Attained		
C704B.3		1.1	1.2	2.30	2.1	Attained		
C704B.4		1.1	1.2	2.27	2.1	Attained		

Course Outcome Attainment: 2.32

Course Name: Non-Conventional Energy Resources Year : 2022-23								
Course Code: BTMEC802F Sem-VIII								
Course	Assessment Tools	Internal	University	Course				
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark		
C802F.1		0.9	1.2	2.16	2.1	Attained		
C802F.2	[CA1]/MSE/ [CA2]/ [ESE]	1.05	1.2	2.27	2.1	Attained		
C802F.3		1.1	1.2	2.30	2.1	Attained		
C802F.4		1.1	1.2	2.27	2.1	Attained		

Course Outcome

Attainment: 2.25

Course No	Course Name	CO1	CO2	CO3	CO4	Average CO Attainment
SY set CO att	ainment Target	1.8	138	1.8	1.8	1.8
BTBSC301	Engineering	2.83	2.87	2.92	2.91	2.88
BIBBESUI	Mathematics-III	Attained	Attained	Attained	Attained	Attained
BTMEC302	Materials Science	2.86	2.87	2.87	2.74	2.83
BTWIEC302	and Metallurgy	Attained	Attained	Attained	Attained	Attained
BTMEC303	Fluid Mechanics	2.99	2.78	2.98	2.98	2.93
		Attained	Attained	Attained	Attained	Attained
BTMEC304	Machine Drawing	2.93	2.94	2.97	2.84	2.92
	and CAD	Attained	Attained	Attained	Attained	Attained
BTMEC305	Thermodynamics	2.97	2.93	2.97	2.97	2.96
	Thermodynamics	Attained	Attained	Attained	Attained	Attained
BTHM3401	Basic Human	2.93	2.93	2.92	2.93	2.93
	Rights	Attained	Attained	Attained	Attained	Attained
BTMEL307	Materials Science	2.96	2.47	2.47	2.50	2.60
	and Metallurgy Lab	Attained	Attained	Attained	Attained	Attained
BTMEL308	Fluid Mechanics	2.96	2.48	2.48	2.00	2.48
	Lab	Attained	Attained	Attained	Attained	Attained
BTMEL309	Machine Drawing	2.11	2.13	2.13	2.11	2.12
	and CAD Lab	Attained	Attained	Attained	Attained	Attained
BTMEL310	Field Training	2.55	2.54	2.53	2.54	2.54
	/Internship/Industr ial Training I	Attained	Attained	Attained	Attained	Attained
	Manufacturing	2.81	2.88	2.65	2.58	2.73
BTMEC401	Processes - I	Attained	Attained	Attained	Attained	Attained
BTMEC402	Theory of	2.95	2.96	2.95	2.92	2.94
	Machines-I	Attained	Attained	Attained	Attained	Attained
BTMEC403	Strength of	2.72	2.88	2.95	2.96	2.88
	Materials	Attained	Attained	Attained	Attained	Attained
BTMEC404	Numerical	2.85	2.89	2.86	2.61	2.80
	Methods in	Attained	Attained	Attained	Attained	Attained
	Mechanical Engineering					
BTID405	Product Design	2.95	2.45	2.93	2.94	2.82
	Engineering – I	Attained	Attained	Attained	Attained	Attained
BTHM3402	Interpersonal	2.93	2.93	2.92	2.93	2.93
	Communication	Attained	Attained	Attained	Attained	Attained

	Skill& Salf					
	Development					
DTMEL 407	Manufasturing	2.40	2.42	2.44	2.40	2.42
BIMEL40/	Manufacturing	2.40 Attained	2.43	2.44 Attained	2.40 Attained	2.42 Attained
	Processes Lab – I	Attailleu	Attained	Attained	Attained	Attained
DTMEL 409	Theory of	2.08	3.00	2.08	2.00	2.08
DIWEL408	Mashinga Lah	Attained	Attained	Attained	Attained	Attained
	Machines Lab- I	7 Humou	7 ttuilleu	7 Ittuilleu	7 Humou	1 Humbu
BTMEL409	Strength of	2.93	2.93	2.92	2.93	2.93
DIWILLAU	Materials Lab	Attained	Attained	Attained	Attained	Attained
	Waterials Lau	11000011000		1 100001100	1 100001100	1 100001100
	Numerical	1.83	2.32	1.85	2.32	2.08
BTMEL410	Methods Lab	Attained	Attained	Attained	Attained	Attained
	Wiethous Lab					
TY set CO Attair	iment Target					
		1.95	1.95	1.95	1.95	1.95
BTMEC501	Heat Transfer	2.98	2.93	2.97	2.98	2.97
		Attained	Attained	Attained	Attained	Attained
BTMEC502	Applied	2.73	2.91	2.89	2.81	2.84
DIMLC302	Thermodynamics	Attained	Attained	Attained	Attained	Attained
	Inclinicarynamics					
	-1					
BTMEC503	Machine Design –	2.88	2.81	2.78	2.70	2.79
DIMLC303	I	Attained	Attained	Attained	Attained	Attained
	1					
BTMEC504	Theory of	2.71	2.95	2.84	2.78	2.82
BINECCOT	Machines- II	Attained	Attained	Attained	Attained	Attained
	Widelines II					
BTMEC505	Metrology and	2.88	2.87	2.86	2.85	2.86
	Ouality Control	Attained	Attained	Attained	Attained	Attained
	2					
BTID506	Product Design	2.95	2.96	2.93	2.95	2.95
	Engineering - II	Attained	Attained	Attained	Attained	Attained
	0 0					
BTMEC506A	Automobile	2.95	2.98	2.97	2.95	2.96
	Engineering	Attained	Attained	Attained	Attained	Attained
BTMEL507	Heat Transfer Lab	2.94	2.41	2.92	2.68	2.68
		Attained	Attained	Attained	Attained	Attained
BTMEL508	Applied	2.64	2.64	2.61	2.14	2.51
	Thermodynamics	Attained	Attained	Attained	Attained	Attained
	Lab					
	Machine Design	2.10	2.10	2.09	2.05	2.08
BTMEL509	Practice- I					
		Attained	Attained	Attained	Attained	Attained
	There	2.62	2.62	2.60	2.62	2.62
BTMEL510	Theory of	2.03 Attained	2.03	2.00 Attained	2.02	2.02 Attained
	Machines Lab- II	Anamea	Anameu	Anameu	Anallicu	Attaineu
	Eald	2.55	2.54	2.52	2.54	2.54
DTMEE511		2.55 Attained	2.34 Attained	2.55 Attained	4ttained	4.54
DIMERSII	1 raining/internshi	¹ stuffied		¹ stuanicu		
	p					
		2 82	2.92	2.67	2.59	2 72
		2.02	2.03	2.07	2.30	2.12

BTMEC601	Manufacturing Processes- II	Attained	Attained	Attained	Attained	Attained
	110003565-11					
	Machine Design-	2.85	2.80	2.75	2.69	2.77
BIMEC602	II	Attained	Attained	Attained	Attained	Attained
	Applied	2.94	2.85	2.99	2.96	2.93
BTMEC603	Thermodynamics- II	Attained	Attained	Attained	Attained	Attained
BTMEC604B	IC Engines	2.97	2.99	2.74	2.98	2.92
	U	Attained	Attained	Attained	Attained	Attained
BTMEC605C	Renewable Energy Sources	2.25	2.28	2.30	2.26	2.27
	8,	Attained	Attained	Attained	Attained	Attained
BTMEC606B	Solar Energy	2.95	2.95	2.94	2.95	2.95
		Attained	Attained	Attained	Attained	Attained
BTMEC606B	Solar Energy	2.95	2.95	2.94	2.95	2.95
		Attained	Attained	Attained	Attained	Attained
	Metrology and	2.39	2.86	2.39	2.88	2.63
BTMEL607	Quality Control Lab	Attained	Attained	Attained	Attained	Attained
	Machine Design	2.44	2.43	2.42	2.41	2.42
BTMEL608	Practice-II	Attained	Attained	Attained	Attained	Attained
BTMEL609	IC Engine Lab	2.88	2.88	2.91	2.92	2.90
	0	Attained	Attained	Attained	Attained	Attained
	Refrigeration and	2.44	2.89	2.43	2.91	2.67
BTMEL610	Air Conditioning Lab	Attained	Attained	Attained	Attained	Attained
	Technical Project	2.90	2.38	2.36	2.38	2.51
BTMEM611	for Community Services	Attained	Attained	Attained	Attained	Attained
BTech Set CO A	Attainment Target	2.1	2.1	2.1	2.1	2.1
BTMEC701	Mechatronics	2.94	2.85	2.92	2.83	2.88
		Attained	Attained	Attained	Attained	Attained
BTMEC702	CAD/CAM	2.81	2.80	2.84	2.86	2.83
		Attained	Attained	Attained	Attained	Attained
BTMEC703	Manufacturing	2.87	2.79	2.81	2.85	2.83
	Processes - III	Attained	Attained	Attained	Attained	Attained
BTMEC704B	Industrial Engineering and	2.40	2.31	2.30	2.27	2.32
	Management	Attained	Attained	Attained	Attained	Attained
BTMEC705C	Wind Energy	2.87	2.76	2.72	2.86	2.80
		Attained	Attained	Attained	Attained	Attained

DTMEL 706	Manufacturing	2.09	2.06	2.07	2.06	2.07
BIWEL/00	Processes Lab - II	Attained	Attained	Attained	Attained	Attained
BTMEL707	Mechatronics Lab	2.08	2.03	2.05	2.03	2.05
		Attained	Attained	Attained	Attained	Attained
BTMEL708	CAD/CAM Lab	2.07	2.03	2.05	2.03	2.05
		Attained	Attained	Attained	Attained	Attained
BTMEL709	Seminar	2.40	2.36	2.38	2.34	2.37
		Attained	Attained	Attained	Attained	Attained
	Field Training	2.42	2.40	2.40	2.40	2.41
BTMEL710	/Internship/Industr ial Training III	Attained	Attained	Attained	Attained	Attained
	Project Stage-I	2.09	2.06	2.07	2.06	2.07
BIMEM/II		Attained	Attained	Attained	Attained	Attained
		Attained	Attained	Attained	Attained	Attained
	Fundamental of Automotive	2.15	2.27	2.33	2.27	2.26
BTMEC801A	Systems (BTMEC801A)	Attained	Attained	Attained	Attained	Attained
	Non-conventional	2.16	2.27	2.30	2.27	2.25
BTMEC801F	Energy Resources (BTMEC802F)	Attained	Attained	Attained	Attained	Attained
BTMEP803	Project Stage-II	2.57	2.06	2.07	2.06	2.19
		Attained	Attained	Attained	Attained	Attained

(10)

3.3. Attainment of Program Outcomes and Program Specific Outcomes (50)

3.3.1. Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific

Outcomes

(Describe the assessment to ols and process esused to gather the data upon which the

evaluation of each of the Program Outcomes and Program Specific Outcomes is based indicating the frequency with which these processes are carried out. Describe the assessmentprocesses that demonstrate the degree to which the Program Outcomes and Program Spe cific Outcomes are attained and document the attainment levels)

List of PO and PSO Assessment Tools:

Assessment tools are categorized into two types for Program Outcomes (POs), Program Specific Outcomes (PSOs).

- 1. Direct Assessment Method– Through CO attainment in relevant courses.
- 2. Indirect Assessment Method Employer Feedback, Alumni feedback, Program Exit Survey.

Direct Assessment methods:

CO attainment of course shows knowledge and skills obtained by students from respective courses derived from their performance in the continuous assessment, unit tests, online examinations, insemester examinations, end-semester examinations, reviews, assignments etc. These methods provide strong evidence of student learning.

Indirect Assessment methods:

Surveys of students are taken to know their learning. Feedback of various stake holders like employer, alumni etc is taken to know the capabilities and necessary improvements.

For e.g.

Program exit Feedback: To evaluate the success of program in providing students with opportunities to achieve the POs and PSOs every year. After completion of program students are able evaluate easily so here given 40% weightage.

Alumni Feedback: To evaluate the success of program in providing alumni with opportunities to achieve the POs and PSOs every year and given 30% weightage.

Employer Feedback: To provide information about our graduate's skills and capability and given 30 % weightage.

Process for Evaluation and Assessment of POs & PSOs

The activity, questionaries and frequency of feedback is defined by the Program for POs and PSOs attainment through in direct tools.

- The CO-PO mapping and CO attainment is considered as reference for PO attainment as a part of direct tool. If the CO average attainment (Internal & External) is achieved at level 3 then the PO attainment level is same CO-PO mapping level.
- If CO attainment level is 2/1/0 then CO PO mapping level is transformed as per the CO attainment level as given below,
- 1. If CO attainment level is 1 and CO-PO mapping is at level 2 then PO attainment level will be (2*1)/3 = 0.667, here value 3 is maximum CO attainment level.
- 2. The same process is followed to calculate PSO attainment.

PO and PSO attainment are calculated by considering 80% weightage to direct assessment and 20% weightage to indirect assessment through surveys as shown in following figure

PO/PSO Attainment = 0.8 * Direct Attainment + 0.2 * Indirect Attainment



Fig 3 Process of defining PO/PSO Attainment

Direct Assessment Tools:

Continuous Assessment Test1[CA1]
Mid Semester Examination [MSE]
Continuous Assessment Test 2[CA2]
End Semester Examination [ESE]
Lab Continuous Assessment Test 1
Lab Continuous Assessment Test 2

Indirect Assessment Tools:

Program End Survey
Employer Feedback
Examiner Feedback

3.3.2. Provide results of evaluation of each PO&PSO

(40)

Program shall set Program Outcome attainment levels for all POs & PSOs.

(The attainment levels by direct (student performance) and indirect (surveys) are to be presented through Program level Course–PO & PSO matrix as indicated).

	-				r		1			1		
Course Name & Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Fngineering	1.85	1.85	1.80	1 78		1.80					1.80	1 84
Mathematica I	1.00	1.05	1.00	1.70		1.00					1.00	1.04
Mathematics – 1												
Engineering Physics	1.85	1.71	1.95	1.98		1.75	1.69					1.79
Engineering Graphics	1.40	1.40	1.42	1.42	1.42					1.43		1.38
Communication Skills	2.73				2.81	2.84		2.82		2.80		2.80
Energy and Environment Engineering	2.66	2.69	2.66	2.58		2.61		2.63		2.70		
Basic Civil and	2.41	2.29	2.39	2.45		2.51	2.43			2.42	2.63	
Mechanical Engineering												
Engineering Physics	2.65	2.45	2.48	2.94		2.94	2.94		2.47			2.70
Lab												
Engineering Graphics	2.76	2.98	2.98	2.98	2.76				2.98	2.75		2.76
Lab												
Communication Skills	1.95				2.52	2.62		2.59		2.43		2.47
Lab												
Engineering Mathematics- II	1.89	1.89	1.87	1.92		1.87					1.87	1.89
Engineering Chemistry	2.95	2.92				2.98	2.94		2.87			
Engineering Mechanics	2.97	2.97	2.94			2.91			2.95			2.95
Computer Programming in C	2.91	2.91	2.90						2.93	2.93		2.90
Workshop Practices	2.93				2.93				2.93	2.93		

PO Attainment:

Computer Programming Lab	2.97	2.97	2.97						2.95	2.94		
Flogramming Lab			1							• • •		
Engineering Mechanics Lab	2.77	2.79	2.71			2.46	2.46		2.50	2.94		
Engineering	2 34	2 29				2 09	2 4 3		1 92			
Chemistry Lab	2.34	2.2)				2.07	2.43		1.72			
Basic Electrical and	2.56					2.56	2.58					
Electronics												
Engineering												
	2.49	2 40			2.40	2.45	2 40	2 40	2.47	2 40		
Mini Project	2.48	2.48			2.49	2.45	2.48	2.48	2.47	2.49		
Engineering	2.92	2.86	2.87									
Mathematics-III												
Materials Science and	2.85	2 85	2 85	2.83	283	2 78	283	287	2.81	283		
Matellurger	2.65	2.85	2.85	2.05	2.83	2.78	2.05	2.07	2.01	2.83		
Metanurgy		2.0.6	• • • •	• • • •		• • • •	• • • •	• • • •		• • • •		• • • •
Fluid Mechanics	2.92	2.86	2.93	2.98		2.98	2.98	2.98		2.98		2.91
Machine Drawing and	2 97	2 97	2 96	1.86		1 56	2.12	2 97		2 97		2.96
CAD	<u>2.91</u>	<u> 2.77</u>	<u>2.90</u>	1.00		1.00	2.12	<u>2.71</u>		<u>2.71</u>		<u>2.70</u>
	2 49	2 34	2 40				1 89			2 40		2 40
Thermodynamics	2.19	2.51	2.10				1.07			2.10		2.10
<u>inernioù ynamies</u>	2.02	2.02	2.02	2.16	2.02	1.56	1.80	2.02	2.02	2.02	2.02	2.02
Pagia Human Dighta	<u>2.75</u>	2.92	<u> 2.95</u>	2.10	2.95	1.30	1.07	2.95	<u> 2.95</u>	<u>2.95</u>	2.92	<u>2.75</u>
Basic Hullian Kights	2.62	0.46	2 (2		2 50	0.47	0.71		2.46	2 40		0.47
Materials Science and	2.63	2.46	2.62		2.50	2.47	2.71		2.46	2.48		2.47
<u>Metallurgy Lab</u>												
	2.59	1.48	2.33		2.00	2.48	1.30		1.25	1.80		1.70
Fluid Mechanics Lab												
Machine Drawing and	2.75	2.00	1.75		2.00				1.00	1.00		1.00
CAD Lab												
Field Training												
/Internship/Industrial	2.86	<u>2.91</u>	<u>2.89</u>	<u>2.16</u>	<u>2.87</u>		<u>2.85</u>	<u>2.89</u>	<u>2.85</u>	<u>2.88</u>	<u>2.88</u>	<u>2.90</u>
<u>Iraining I</u>	2.74	2.02	0.70			0.70	0.70			0.70		0.70
Manufacturing	2.74	2.83	2.73			2.73	2.73			2.73		2.73
Processes - I												
	2.95	2.95	2.94	2.95	2.95	2.95	2.95	2.96		2.95		2.95
Theory of Machines-I												
	2.49	2.94	2.71		2.47	2.48		2.71	2.64	2.71	0.00	0.00
Strength of Materials												
Numerical Methods in	2 80	2.80			2 80							
Mechanical Engineering	2.00	<u></u>			2.00							
Product Design	2 82	2.85	284	2.81	2.05	2.02	2.04	282	282	2 82	2.04	2 82
Floduct Design	2.02	2.85	2.04	2.01	2.95	2.95	2.94	2.02	2.02	2.02	2.94	2.02
<u>Engineering – I</u>												
T												
Interpersonal												
Communication Skill&		<u>2.91</u>	2.89	2.16	<u>2.87</u>		<u>2.85</u>	<u>1.48</u>	2.85	2.88	<u>2.88</u>	<u>2.90</u>
Self Development												
Manufacturing	2 41	2 40	2 4 2			2 4 2	2 4 2			2 4 2		2 4 2
Processes Lab _ I	2.11	2.10	2.12			2.12	2.12			2.12		2.12
Theory of Machines	2 00	2 00	2 00	2 00	2 00	2.00	2 00	2 00	2 00	2 00	2 00	2.00
<u>Theory of Widelines</u>	2.99	2.99	2.77	2.99	2.99	2.70	4.99	2.99	2.77	2.99	2.77	2.77
Lab-1												
		1					1					

Strength of Materials													٦
<u>Lab</u>	<u>2.47</u>	<u>2.48</u>		<u>1.88</u>	<u>2.64</u>		<u>0.00</u>						
Numerical Methods Lab		<u>2.71</u>		2.12	<u>2.71</u>								-
	2.96	2.95	2.96	2 97		2.98	2.98	2.98		2 97		2.96	-
Heat Transfer	2.90	2.95	2.90	2.57	• • • •	2.90	2.90	2.70		2.77	• • •	2.90	_
<u>Applied</u> <u>Thermodynamics – I</u>	2.83	2.86	2.87	2.85	2.86	2.82	2.81				2.91	2.81	
Machine Design – I	2.5	2.5	1.7	2.0		1.5	1.0	1.0		1.0		1.0	
Theory of Machines- II	2.83	2.85	2.86	2.81	2.81	2.83	2.81	2.78		2.71		2.77	-
Metrology and Quality Control	2.87	2.87	2.86	2.86	2.87						2.87	2.87	-
Product Design	2.95	2.95	2.95	2.95	2.96	2.93	2.95	2.95	2.95	2.95	2.95	2.95	
<u>Automobile</u> Engineering	2.96		2.98	2.95	2.98		2.97	2.95	2.97	2.95		2.96	
Heat Transfor Lab	2.71	2.58	2.73		2.46	2.92	2.77		2.44	2.46		2.67	-
<u>Applied</u>	2.51	2.46	2.48	2.48	2.39	2.38	2.38		2.51	2.51	2.43	2.51	-
Machine Design	2.50	2.50	1.67	2.00		1.50	1.00	1.00		1.00		1.00	-
Theory of Machines	2.62	2.62	2.62	2.62	2.62	2.60	2.61	2.62	2.62	2.62	2.62	2.62	
Field Training /Internship/Industrial Training II	2.86	2.91	2.89	2.01	2.87		2.22	1.25	2.85	2.88	2.88	2.90	-
Manufacturing Processes- II	2.72	2.72	2.72	2.65	2.74		2.82	2.82				2.72	
110003505-11	2.0	1.5	2.0	2.0		1.0		1.0		1.0		1.0	-
<u>Applied</u>	2.92	2.93	2.94			2.97	2.96		2.96			2.94	+
IC Engines	2.92	2.91	2.74	2.90	2.89	2.88	2.88	2.74			2.86	2.92	╞
Renewable Energy	1.8	2.0	1.5	1.0	2.0	3.0	3.0	3.0	2.0	1.7		1.8	+
Solar Energy	2.95	2.95	2.95	1.80	2.94		2.22						T
Metrology and Quality	2.63	2.71	2.39		2.69		2.63					2.63	╞
Machine Design	2.00	1.50	2.00	2.00		1.00		1.00		1.00		1.00	╞
IC Engine Lab	2.89	2.91	2.90	2.90	2.89	2.90	2.90	null	2.89	2.90	2.88	2.90	╞
Refrigeration and Air	2.72	2.59	2.61		2.71			2.20	2.43	2.90		2.62	╞
Technical Project for	2.67	2.00	3.00	2.00	2.50	3.00	2.00	3.00	2.67	2.50	3.00	3.00	╞
community bervices			I	1	1	I	1	L	I	1	1		

Mechatronics	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00	
CAD/CAM	2.50	2.00	2.00	3.00	1.33							1.00	
Manufacturing Processes - III	3.0	3.0	1.8	2.0	3.0		2.3		2.0	2.0	2.0	1.3	
Industrial Engineering and Management	3.0	3.0	1.8	2.0	3.0		2.3		2.0	2.0	2.0	1.3	
Wind Energy	3.0	3.0	1.8	2.0	3.0		2.3		2.0	2.0	2.0	1.3	
Manufacturing Processes Lab - II	2.75	3.00	2.00			1.00	1.00		1.00	1.00		1.00	
Mechatronics Lab	2.75	2.75	1.50	3.00	2.33	1.00	1.00		1.00	1.00			
CAD/CAM Lab	1.00	2.00	1.75	1.67	3.00		3.00		3.00	2.50			
Seminar	3.00	2.75	1.50	3.00	2.00	1.00	1.00	2.00	1.00	1.67	2.00	2.00	
Field Training /Internship/Industrial Training III	3.00	2.75	3.00	3.00	3.00	2.75	2.75	2.50	2.75	2.75	2.50	2.25	
Project Stage-I	2.00	3.00		3.00	3.00	1.00	1.00	2.00	3.00	3.00	3.00	3.00	
Fundamental of automotive systems	2.3	2.3	2.5	2.0	2.3		2.0		2.0	3.0	3.0		
Non-Conventional Energy Resourses	3.0	3.0	1.8	2.0	3.0		2.3		2.0	2.0	2.0	1.3	
Project Stage-II	2.00	3.00		2.33	3.00	1.00	1.00	2.00	3.00	3.00	3.00	3.00	
Direct Attainment	2.57	2.57	2.36	2.48	2.56	2.41	2.27	2.44	2.26	2.24	2.40	2.29	

PSO Attainment:

Class	Code	Course	PSO1	PSO2
	BTBS101	Engineering	1.87	1.78
		Mathematics – I		
	BTBS102	Engineering Physics	1.69	1.75
	BTES 103	Engineering Graphics	1.36	
	BTHM104	Communication Skills	2.72	2.86
FY-	BTES105	Energy and Environment Engineering	2.69	2.58
SEMI	BTES106	Basic Civil and Mechanical Engineering	2.29	2.56
	BTBS107L	Engineering Physics Lab	2.45	2.95
	BTES108L	Engineering Graphics Lab	2.96	
	BTHM109L	Communication Skills Lab	2.41	2.92
	BTBS201	Engineering Mathematics- II	1.87	1.87
FY- SEMII	BTBS202	Engineering Chemistry	3.00	
	BTES203	Engineering Mechanics	2.91	2.98

		_		
	BTBS 204	Computer		
		Programming in C		
	BTBS205	Workshop Practices	2.94	2.93
	BTBS206	Computer		
		Programming Lab		
	BTES207L	Engineering	2.46	2.50
		Mechanics I ab		
		Wieenames Lab		
	BTBS208L	Engineering	2.41	
		Chemistry Lab		
	BTES 209L	Basic Electrical and		
		Electronics		
		Engineering		
	BTES210L	Mini Project	2.48	2.47
		Engineering	2.85	
	BTBSC301	Mathematics-III		
		Materials Science	2 00	0.05
	BTMEC302	and Metallurgy	2.88	2.95
	BTMEC303	Fluid Mechanics	2.98	2.96
	DIMECSUS	Machine Drawing		
	BTMEC304	and CAD	2.98	2.96
~ .				
SY- SEMIII			2.97	2.95
5EMII	BTMEC305	Thermodynamics Pagia Human Bighta	2.02	2.02
	Б1ПVI3401	Basic numan Rights	2.93	2.92
		Materials Science	2.64	2.71
	BTMEL307	and Metallurgy Lab		
	BTMEL308	Fluid Mechanics Lab	2.74	2.74
		Machine Drawing		
	BTMEL309	and CAD Lab	2.74	2.74
		Field Training	2.85	2.90
	BTMFF310	/Internship/Industrial		
				1

		Manufacturing	2.78	2.78
	BTMEC401	Processes - I		
		Theory of Machines-	2.78	2.76
	BTMEC402	Ι		
			2.78	2.76
	BTMEC403	Strength of Materials		
		Numerical Methods	276	206
		in Mechanical	2.70	2.80
	BTMEC404	Engineering		
SV		Product Design	2.93	2.92
51- SEM	BTID405	Engineering – I		
SENI		Interpersonal		
IV		Communication	2.85	2.90
		Skill& Self		
	BTHM3402	Development		
		Manufacturing	2.78	2.76
	BTMEL407	Processes Lab – I		
		Theory of Machines	2.78	2.76
	BTMEL408	Lab- I		
		Strength of Materials	2.78	2.76
	BTMEL409	Lab		
		Numerical Methods	2.76	2.94
	BTMEL410	Lab		
			2.96	2.95
	BTMEC501	Heat Transfer		
		Applied	1.50	1.50
	BTMEC502	<u>Thermodynamics – I</u>		
			2.87	2.90
	BTMEC503	<u>Machine Design – I</u>		
		Theory of Machines-	2.90	2.88
	BTMEC504	II		
		Metrology and	2.88	2.88
TY-	BTMEC505	Quality Control		
SEM V		Product Design	2.99	2.98
	BTID506	Engineering - II		
		Automobile	2.90	2.88
	BTMEC506A	Engineering	• • • •	• • • •
	DTMEL 507	II. et Terrefer I. d	2.99	2.98
	BIMEL30/	Heat Transfer Lab		
		<u>Applied</u> Thermodynamics	2.93	2.93
	DTMEL 500	<u>I nermodynamics</u>		
	DIWELJUS	Lao Maahing Design	2.00	2.00
	DTMET 500	Broatico J	2.99	2.98
	DIWELJUY	Theory of Machines	2.00	2.00
	DTMEL 510		2.99	2.98
	DIWELJU	Lau- II Field Training		
		/Internchin/Industrial	2.85	2.90
	DTMEE511	/internship/industrial		
TV	DIWEFJII	Manufacturing	2 71	2 71
1 I - Sem	BTMEC601	Processes II	2./1	2./1
SEIVI VI	DTWECOUL DTWEC602	Machine Design II	207	2.00
V I	DIWEC002	Machine Design-II	2.07	2.90
	1	1		1

	BTMEC603	<u>Applied</u> <u>Thermodynamics- II</u>	2.95	2.92
	BTMEC604B	IC Engines	2.95	2.92
	BTMEC605C	Renewable Energy Sources	2.81	2.81
	BTMEC606B	Solar Energy	2.95	2.95
	BTMEL607	Metrology and Quality Control Lab	2.40	2.40
	BTMEL608	<u>Machine Design</u> <u>Practice-II</u>	1.00	1.50
	BTMEL609	IC Engine Lab	1.50	1.00
	BTMEL610	Refrigeration and Air Conditioning Lab	1.50	1.00
	BTMEM611	Technical Project for Community Services	2.85	2.90
	BTMEC701	Mechatronics	2.80	2.80
	BTMEC702	CAD/CAM	2.80	2.80
	BTMEC703	Manufacturing Processes - III	2.84	2.84
	BTMEC704B	Industrial Engineering and Management	2.97	2.89
BTech-	BTMEC705C	Wind Energy	2.97	2.89
SEM VII	BTMEL706	Manufacturing Processes Lab - II	2.68	2.68
	BTMEL707	Mechatronics Lab	2.68	2.68
	BTMEL708	CAD/CAM Lab	2.68	2.68
	BTMES709	Seminar	2.48	2.69
	BTMEF710	<u>Field Training</u> /Internship/Industrial <u>Training III</u>	2.85	2.90
	BTMEP711	Project Stage-I	2.85	2.90
BTech- SEM	BTMEC801A	<u>Fundamental of</u> automotive systems	2.75	2.76
VIII	BTMEC802F	Non-Conventional Energy Resourses	2.86	2.80
	BTMEP803	Project Stage-II	2.85	2.90
	Average	2.51	2.21	
PO and PSO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
Attain ment	2.60	2.50	2.34	2.43	2.48	2.34	2.25	2.37	2.23	2.25	2.38	2.26	2.44	2.24
Direct Attain ment	2.57	2.57	2.36	2.48	2.57	2.41	2.27	2.44	2.26	2.24	2.40	2.29	2.51	2.21
Indire ct Attain ment	2.72	2.22	2.26	2.26	2.09	2.08	2.14	2.07	2.11	2.27	2.33	2.15	2.16	2.35

A.Y. 2021-22

3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20)

Program Outcomes as mentioned in Annexure-I and Program Specific Outcomes as defined by the Program.

A. PROGRAM OUTCOMES (POs)

	The students of Mechanical Engineering will be able to:
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

B. PROGRAM SPECIFIC OUTCOMES (PSO)

Mechani	Aechanical Engineering graduates will be able to										
PSO1	The students will be able to acquire competencies in the usage of design, thermal and manufacturing principles to develop a										
	product and process.										
PSO2	The students will be able to impart technological inputs and acquire managerial skills to become technocrats and entrepreneurs.										

3.1.1 Course Outcomes (COs) (SAR should include course outcomes of one coursefrom each semester of study, however, should be prepared for all courses and madeavailable as evidence, if asked)(05)

Sem	Course	СО	Course Outcome
		BTMEC303.1	Define the terms like system, boundary, properties, equilibrium, work, heat, ideal gas, entropy etc. used in thermodynamics.
SEM-3	TTI 1 .	BTMEC303.2	Explain different laws of thermodynamics and apply these to simple thermal systems to study energy balance.
	(BTMC303)	BTMEC303.3	Apply Carnot theorem to heat engine and heat pump, Clausius theorem, Clausius inequality
		BTMEC303.4	Analyze the universal gas constant, ideal processes with equation for ideal gas, p-v, T-s, and h-s diagrams properties of steam. Solve problems related to temperature measurement, study flow energy equation, first law of thermodynamics etc.
		BTMC402.1	Discuss the terminology and various concepts of mechanisms, friction and lubrication.
	Theory of Machines I	BTMC402.2	Determine the velocity and acceleration of various types of mechanisms.
SEM-4	(BTMEC 402)	BTMC402.3	Classify various follower motions by drawing the cam profiles.
		BTMC402.4	Evaluate the performance of clutch, brakes, dynamometers and balancing machines.
		BTMOE504.1	Discuss the terminology and working principles for various types of transmission drives.
SEM-5	Theory of Machines II (BTMEC 504)	BTMOE504.2	Calculate velocity ratio and power transmitted by transmission drives.
		BTMOE504.3	Analyze the performance of governor, flywheel and gyroscope

		BTMOE504.4	Evaluate the effect of various types of vibration on mechanical systems
		BTMOE502.1	Define the nomenclature related to IC engines, fundamental difference between SI and CI engines.
SEM-6		BTMOE502.2	Explain Various Engine Systems, Engine Testing and Performance of SI and CI Engines
	Applied Thermodynamics- II (BTMEC603)	BTMOE502.3	Apply the methods of cooling, Refrigeration systems, Thermodynamics of Refrigeration, Air refrigeration system.
		BTMOE502.4	Analyze the types of Power Plant like Thermal Power Plant, Diesel Power Plant, Gas Turbine power plant, Hydro-electric Power Plant, Nuclear Power Plant
CEM 7		BTMEC704B.1	Define the terms related management like, functions of management, evolution of management theory, contributions of Taylor, Fayol and others
SEIVI-7	Industrial Engineering	BTMEC703.2	Explain Leading: Managing and human factor, motivation, leadership, morale, team building, communication. Controlling: The system and process of controlling control techniques, overall and preventive control
	and management (BTMEC704B)	BTMEC703.3	Apply Operations management in corporate profitability and competitiveness, types and characteristics of manufacturing systems, types and characteristics of services systems.
		BTMEC703.4	Analyze Concurrent Engineering: Producibility, manufacturability, productivity improvement, Total Quality Management: Just in time (JIT), total quality control, quality circles, six sigma
	Non-Conventional	BTMEC802F.1	Demonstrate the generation of electricity from various non-conventional sources of energy, have a working knowledge on types of fuel cells.
SEM-8	Energy Resources (BTMEC802F)	BTMEC802F.2	Estimate the solar energy, Utilization of it, Principles involved in solar energy collection and conversion of it to electricity generation.

BT	MEC802F.3	Explore the concepts involved in wind energy conversion system by studying its components, types and performance
BT	MEC802F.4	Illustrate ocean energy and explain the operational methods of their utilization.

3.1.3 CO-PO matrices of courses selected in 3.1.1 (six matrices to

be mentioned; one per semester from the 3rd to the 8th semester) (05)

All the courses in curriculum are studied in detail and correlation with POs and PSOs are declared. Six matrices are mentioned here from the 3^{rd} to the 8^{th} semester. Record for all courses is available with the program.

Course Name: BTMC303														
Course				Progra	am Ou	tcome	(PO)							
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
BTMES303.1	3													
BTMES303.2	3	2	2									2		
BTMES303.3	2	3	3				2			3		3		
BTMES303.4			3							2		2		
Average	2.67	2.50	2.67				2.00			2.50		2.33		
				Cou	rse Na	me: BT	MEC 4	402						
Course		Program Outcome (PO)												
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	POS	9 PO10	PO11	PO12		
BTMC402.1	2			1		1				1		1		
BTMC402.2	3	2	2	1		2								
BTMC402.3	3	3	2	3	2	2	1					1		
BTMC402.4	3	3	2	3	2	3	1	1						
Average	2.75	2.67	2.00	2.00	2.00	2.00	1.00	1.00		1.00	0.00	1.00		

CO-PO matrices

				(Course	Name	BTMI	EC504						
Course	Program Outcome (PO)													
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
BTMOE504C.1	2			1		1				1		1		
BTMOE504C.2	3	2	2	1		2								
BTMOE504C.3	3	3	2	3	2	2	1					1		
BTMOE504C.4	3	3	2	3	2	3	1	1						
Average	2.75	2.67	2.00	2.00	2.00	2.00	1.00	1.00	0.00	1.00	0.00	1.00		

		Course Name: BTMEC603												
Course	Program Outcome (PO)													
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
BTMEC603.1	3													
BTMEC603.2	3	2	2									2		
BTMEC603.3	2	3	3			2						3		
BTMEC603.4			3			2	2		1			2		
Average	2.67	2.50	2.67			2.00	2.00		1.00			2.33		

		Course Name: BTMEC704B												
Course Outcome	Program Outcome (PO)													
outcome	PO1	PO2	PO3	P O4	PO5	PO 6	PO7	P O8	PO9	PO10	PO11	PO12		
BTMEC704B .1	3													
BTMEC704B .2	3	2	2									2		
BTMEC704B .3	2	3	3				2			3		3		
BTMEC704B .4			3							2		2		
Average	2.67	2.50	2.67				2.00			2.50		2.33		

		Course Name: BTMEC802F													
Course		Program Outcome (PO)													
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12			
BTMEC802F.1	1			1		3	2			1		1			
BTMEC802F.2	2	2	1	1		2	3								
BTMEC802F.3	2	1	2	2	2	2	3					1			
BTMEC802F.4	3	2	2	2	2	3	3	1							
Average	2.00	2.00 1.67 1.50 2.00 2.50 2.75 1.00 1.00 1.00													

CO-PSO matrices

Course Name: BTMEC305									
Course	PSO1	PSO2							
BTMES303.1	1								
BTMES303.2	2	2							
BTMES303.3		2							
BTMES303.4	2								
Average	1.33	2.00							

Course Name: BTMEC402									
Course	PSO1 PSO2								
BTMC402.1	1								
BTMC402.2		2							
BTMC402.3		2							
BTMC402.4	2								
Average	1.50	2.00							

Course Name: BTMEC504									
Course	e PSO1 PSO2								
BTMEC504.1	1	1							
BTMEC504 .2		2							
BTMEC504 .3		2							
BTMEC504 .4	2								
Average	1.50	1.66							

Course Name: BTMEC603									
Course	PSO1	PSO2							
BTMEC603.1	2								
BTMEC603.2		2							
BTMEC603.3									
BTMEC603.4									
Average	2.00	2.00							

Course Name: BTMEC704B									
Course	PSO1	PSO2							
BTMEC704B.1	1								
BTMEC704B.2		2							
BTMEC704B.3	2	2							
BTMEC704B.4	2								
Average	1.66	2.00							

Course Name: BTMEC801F									
Course	PSO1	PSO2							
BTMEC801F.1	1								
BTMEC801F .2		2							
BTMEC801F.3		2							
BTMEC801F.4	2								
Average	1.50	2.00							

3.1.3 Program level Course-PO matrix of all courses INCLUDING first year courses (10)

CO-PO correlation matrix for all courses in the program is given below. Course code is mentioned in the first column and correlation with POs is indicated as 1) slight, 2) moderate and 3) High. Courses not having any correlation is indicated by '-'. This correlation is derived from CO-PO mapping of the individual course. Average of all COs is taken and mapped at level 1, 2 and 3.

Class	Course Name & Code	DO1	DOO	DOJ	DO 4	DOG	DOC	D07	DOO	DOO	DO10	DO11	DO12
		POI	PO2	PO3	PO4	POS	PO6	PO/	PO8	PO9	POIO	POIT	PO12
FY-SEMI	Engineering Mathematics – I	2.75	1.75	2.00	3.00		2.00					2.00	1.50
	Engineering Physics	2.25	1.50	2.00	1.00		1.00	1.00					1.50
	Engineering Graphics	1.67	3.00	2.50	3.00	1.67					2.50		2.50
	Communication Skills	1.00				1.67	1.67		2.00		3.00		2.75
	Energy and Environment Engineering	2.33	2.00	2.50	3.00		1.50	3.00	2.00		2.00	1.00	
	Basic Civil and Mechanical Engineering	2.25		1.50	1.00		1.50	1.00			1.67	1.00	
	Engineering Physics Lab	2.00	2.00	2.00			3.00	3.00		2.00			2.00
	Engineering Graphics Lab	1.67	3.00	2.50	3.00	1.67				2.50	2.50		2.50
	Communication Skills Lab	1.00				1.67	1.67		2.00		3.00		2.75
FY-SEMII	Engineering Mathematics- II	2.75	2.00	1.00	1.50		1.00					3.00	1.33
	Engineering Chemistry	1.75	1.33				1.50	1.00		3.00			
	Engineering Mechanics	2.25	2.50	2.00			3.00			2.00			2.00
	Computer Programming in C	3.00	2.25	2.00						3.00	3.00		1.50
	Workshop Practices	3.00				2.00				3.00	1.00		
	Computer Programming Lab	1.75	2.00	2.25		3.00				2.00	2.50		
	Engineering Mechanics Lab	2.67	3.00	2.00			3.00	1.00		2.00	2.00		
	Engineering Chemistry Lab	1.75	1.33				1.50	1.00		3.00			
	Basic Electrical and Electronics Engineering	3.00					2.00	1.00					
	Mini Project	2.67	3.00			1.00	3.00	2.00	3.00	2.00	2.00		
SY-SEMIII	Engineering Mathematics-III	1.00	1.50	2.00		1.25				2.00		1.00	1.75
	Materials Science and Metallurgy	2.00	1.75	1.50	2.00	3.00	1.50	1.50	1.00	1.00	1.50	0.00	0.00

	Fluid Mechanics	1.50	1.63	1.75									0.88
	Machine Drawing and CAD	2.00	1.75	1.75									0.88
	Thermodynamics	1.63	1.66	1.75		3.00							0.88
	Basic Human Rights	3.00	2.75	2.50	2.75	2.50	3.00	3.00	2.00	3.00	2.00	1.00	3.00
	Materials Science and Metallurgy Lab	2.03	1.95	1.94		3.00				3.00			1.41
	Fluid Mechanics Lab	2.16	2.03	1.98		3.00				3.00			1.54
	Machine Drawing and CAD Lab	1.70	1.65	1.75		3.00							0.88
	Field Training /Internship/Industrial Training I	2.67	2.00	3.00	2.00	2.50	3.00	2.00	3.00	2.67	2.50	3.00	3.00
	Manufacturing Processes - I												
		1.75	1.50	1.00			1.00	1.00			1.00		1.00
SV-SEM IV													
51-5210110	Theory of Machines-I	2.75	2.67	2.00	2.00	2.00	2.00	1.00	1.00	0.00	1.00	0.00	1.00
	Strength of Materials	2.00	2.67	2.00	2.00	2.00	2.00	1.00	1.00	0.00	1.00	0.00	1.00
	Numerical Methods in Mechanical Engineering	3.00	3.00		1.00	3.00							
	Product Design Engineering – I	3.00	2.75	2.50	2.75	2.50	3.00	3.00	2.00	3.00	2.00	1.00	3.00
	Interpersonal Communication Skill& Self Development	2.00	2.00	1.67	2.00	1.67	1.67	2.00	1.50	3.00	2.00	2.00	2.00
	Manufacturing Processes Lab – I	1.75	1.50	1.00		3.00	1.00	1.00			1.00		1.00
	Theory of Machines Lab- I	3.00	2.75	2.50		3.00	3.00	2.00			2.00		3.00
	Strength of Materials Lab	3.00	2.66	2.50		3.00	3.00	2.00			2.00		3.00
	Numerical Methods Lab	3.00	3.00		1.00	3.00							
	Heat Transfer												
		2.25	2.50	2.67	2.00		1.00	1.00	1.00		1.00		2.00
TY-SEM V													
	Applied Thermodynamics – I	2.50	2.50	1.67	2.00	1.00	1.33	1.00	0.00	0.00	0.00	1.00	1.00
	Machine Design – I	1.25	1.25	2.00	1.00	1.00	1.00		0.00	0.00	0.00		1.00
	Theory of Machines- II	2.75	2.67	2.00	2.00	2.00	2.00	1.00	1.00	0.00	1.00	0.00	1.00
	Metrology and Quality Control	3.00	3.00	2.00	2.00	3.00						1.00	2.00
	Product Design Engineering - II	2.99	2.99	2.99	2.99	2.99	2.98	2.99	2.99	2.99	2.99	2.99	2.99

	Automobile Engineering	2.75	2.67	2.00	2.00	2.00	2.00	1.00	1.00	0.00	1.00	0.00	1.00
	Heat Transfer Lab	3.00	2.75	2.50		3.00	3.00	2.00			2.00		3.00
	Applied Thermodynamics Lab	3.00	2.25	2.50	2.50	3.00	2.00	2.00	0.00	3.00	2.00	1.67	3.00
	Machine Design Practice- I	3.00	2.75	2.50		3.00	3.00	2.00			2.00		3.00
	Theory of Machines Lab- II	3.00	2.75	2.50		3.00	3.00	2.00			2.00		3.00
	Field training/Internship	2.67	2.00	3.00	2.00	2.50	3.00	2.00	3.00	2.67	2.50	3.00	3.00
TY-SEM VI													
	Manufacturing Processes- II	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	Machine Design-II	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	Applied Thermodynamics- II	1.50	1.25		1.00		1.00		0.00	0.00	0.00		1.00
	IC Engines	2.67	2.50	2.67		3.00		2.00					2.33
	Renewable Energy Sources	1.50	2.50	2.67		3.00		2.00					2.33
	Solar Energy	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	Metrology and Quality Control Lab	1.50	1.67	2.00	2.00	1.00	1.00	1.50					
	Machine Design Practice-II	3.00	2.00	2.00		3.00		1.00					2.00
	IC Engine Lab	2.00	3.00	3.00	2.00	2.00		2.00			2.00		2.00
	Refrigeration and Air Conditioning Lab	3.00	3.00	2.00	2.00	2.00		2.00			2.00		2.00
	Technical Project for Community Services	2.00	3.00	2.00	2.00	2.00		2.00			2.00		2.00
	Mechatronics	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
BTech-SEM VII	CAD/CAM	2.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	Manufacturing Processes - III	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	Industrial Engineering and Management	2.67	2.50	2.67		3.00		2.00			2.50		2.33
	Wind Energy	3.00	3.00	2.67		3.00		2.00			2.50		2.33
	Manufacturing Processes Lab - II	2.75	3.00	2.00			1.00	1.00		1.00	1.00		1.00
	Mechatronics Lab	1.75	1.50	1.00		3.00	1.00	1.00			1.00		1.00
	CAD/CAM Lab	2.75	1.50	1.00		3.00	1.00	1.00			1.00		1.00
	Seminar	1.25	1.50	1.67	1.33	1.67			1.50	1.25	2.00		
	Field Training /Internship/Industrial Training III	2.67	2.00	3.00	2.00	2.50	3.00	2.00	3.00	2.67	2.50	3.00	3.00
	Project Stage-I	2.00	2.00	1.67	2.00	1.67	1.67	2.00	1.50	3.00	2.00	2.00	2.00

	Fundamental of automotive systems	2.33	2.33	2.50	2.00	2.33	2.00	2.00		2.00	3.00	3.00	
BTech-SEM VIII													
	Non-Conventional Energy Resourses	2.00	1.67	1.67	1.50	2.00		2.75	1.00				1.00
	Project Stage-II	2.00	2.00	1.67	2.00	1.67	1.67	2.00	1.50	3.00	2.00	2.00	2.00
ŀ	CTUAL AVERAGE PO	2.35	2.27	2.09	1.99	2.17	1.92	1.71	1.71	2.27	1.87	1.77	1.96

Program level Course- PSO matrix:

CO-PSO correlation matrix for all courses in the program is given below. Course code is mentioned in the first column and correlation with PSOs is indicated as 1) slight, 2) moderate and 3) High. Courses not having any correlation are indicated by-. This correlation is derived from CO-PSO mapping of the individual course. Average of all Cos is taken and mapped at level 1, 2 and 3

	Academic Year: 2020-21		ne Specific le (PSO)
Class	Course	PSO1	PSO2
	Engineering Mathematics – I	1.00	2.00
	Engineering Physics	1.00	2.00
	Engineering Graphics	1.00	
	Communication Skills	1.00	3.00
FY- SEMI	Energy and Environment Engineering	1.00	2.00
	Basic Civil and Mechanical Engineering	1.00	2.00
	Engineering Physics Lab	1.00	2.00
	Engineering Graphics Lab	1.00	
	Communication Skills Lab	3.00	2.00
FY- SEMII	Engineering Mathematics- II	2.00	1.00

	Engineering Chemistry	3.00	
	Engineering Mechanics	3.00	2.00
	Computer Programming in C		
	Workshop Practices	2.00	3.00
	Computer Programming Lab		
	Engineering Mechanics Lab	3.00	1.00
	Engineering Chemistry Lab	2.00	
	Basic Electrical and Electronics Engineering		
	Mini Project	3.00	1.00
	Engineering Mathematics-III	1.99	1.98
	Materials Science and Metallurgy	2.88	2.95
	Fluid Mechanics	2.98	2.96
	Machine Drawing and CAD	2.98	2.96
SY- SEMIII	Thermodynamics	1.33	2.00
51 SEMI	Basic Human Rights	2.93	2.92
	Materials Science and Metallurgy Lab	2.64	2.71
	Fluid Mechanics Lab	2.74	2.74
	Machine Drawing and CAD Lab	2.74	2.74
	Field Training /Internship/Industrial Training I	2.85	2.90
	Manufacturing Processes - I	2.78	2.78
	Theory of Machines-I	2.78	2.76
	Strength of Materials	2.78	2.76
SY- SEM IV	Numerical Methods in Mechanical Engineering	2.76	2.86
	Product Design Engineering – I	2.93	2.92
	Interpersonal Communication Skill& Self Development	2.85	2.90
	Manufacturing Processes Lab – I	2.78	2.76
	Theory of Machines Lab- I	2.78	2.76

	Strength of Materials Lab	2.78	2.76
	Numerical Methods Lab	2.76	2.94
	Heat Transfer	1.50	1.50
	Applied Thermodynamics – I	1.50	1.50
	Machine Design – I	1.50	1.50
	Theory of Machines- II	1.50	1.66
	Metrology and Quality Control	3.00	1.00
TV CEMN	Product Design Engineering - II	2.99	2.98
IY-SEM V	Automobile Engineering	1.50	2.00
	Heat Transfer Lab	1.00	1.50
	Applied Thermodynamics Lab	1.75	2.00
	Machine Design Practice- I	1.00	1.50
	Theory of Machines Lab- II	1.00	1.50
	Field training/Internship	2.67	2.00
	Manufacturing Processes- II	3.00	1.00
	Machine Design-II	1.50	1.50
	Applied Thermodynamics- II	2.00	2.00
	IC Engines	2.00	2.00
TY- SEM VI	Renewable Energy Sources	3.00	1.00
	Solar Energy	1.00	1.00
	Metrology and Quality Control Lab	3.00	2.00
	Machine Design Practice-II	2.00	2.00
	IC Engine Lab	2.00	2.00
	Refrigeration and Air Conditioning Lab	2.00	2.00

1			1
	Technical Project for Community Services	2.67	2.00
	Mechatronics	3.00	1.00
	CAD/CAM	3.00	1.00
	Manufacturing Processes - III	3.00	1.00
	Industrial Engineering and Management	1.66	2.00
BTech-SFM	Wind Energy	1.50	2.00
VII	Manufacturing Processes Lab - II	3.00	1.00
	Mechatronics Lab	3.00	1.00
	CAD/CAM Lab	3.00	1.00
	Seminar	1.25	1.00
	Field Training /Internship/Industrial Training III	2.67	2.00
	Project Stage-I	2.00	2.00
	Fundamental of automotive systems	1.50	2.00
BTech- SEM VIII	Non-conventional Energy Resources	1.50	2.00
	Project Stage-II	2.00	2.00
Average PSO	·	2.00	1.65

3.2 Attainment of Course Outcomes

(50)

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

(Examples of data collection processes may include, but are not limited to tutorial questions, assignments, laboratory tests, project evaluation, student portfolios (A portfolio is a collection of artifacts that demonstrate skills, personal characteristics and accomplishments created by the student during study period), internally developed assessment exams, project presentations, oral exams etc.)

The key aspects in Outcome Based Education (OBE) are the assessment of course outcomes. At the initial stage of OBE implementation, the Course Outcomes (COs) for each course are defined based on the Program Outcome (POs) and other requirements. At the end of each course, the COs needs to be assessed and evaluated, to check whether it has been attained or not. Assessment is one more processes, carried out by the department, that identify, collect, and prepare data to evaluate the achievement of program educational objectives and program outcomes. Attainment is the action or fact of achieving a standard result towards accomplishment of desired goals. Primarily attainment is the standard of academic attainment as observed by test or examination result. Attainment of the COs can be measured by using direct and indirect tools. Direct attainment basically displays the student's knowledge and skills from their academic performance. It can be determined from the performance of the students in all the relevant assessment tools – like internal assessments, assignments, quiz and final university examination etc. These methods provide a sampling of what students know and /or actions they can perform, offering substantial.

This program consists of various types of courses for fulfillment of POs and PSOs. The process of data collection for attainment of COs is properly identified depending on the type of course. Major types of courses are

- 1. Theory
- 2. Practical/Oral/TW
- 3. Tutorial
- 4. Seminar
- 5. Project
- 6. Audit course

The Institution strives hard to ensure that the Learning across all the courses of the curriculum is Outcome oriented. There is continuous assessment of learning outcomes attainment and this procedure has been refined over a period of time.

The following are the two broadly classified tools used for assessment of Learning Outcome Attainment

• Direct Assessment Method:

Data collection mechanism includes direct assessment process which is

Theory

- 5. Continuous Assessment Test 1
- 6. Mid Semester Examination
- 7. Continuous Assessment Test 2
- 8. End Semester Examination

Lab

- 4. Continuous Assessment Test 1
- 5. Continuous Assessment Test 2
- 6. End Semester Examination

Data collection process for all above type of courses is clearly defined in table 3.2.1a given below.

Table 3.2.1a: Assessment Tools

Sr.	Assessment tools	Tool type	Time Span
No.			_
1	Continuous Assessment Test1[CA1]		One test/semester
2	Mid Semester Examination [MSE]	Direct	One test/semester
3	Continuous Assessment Test 2 [CA2]	Assessment	One/Semester
4	End Semester Examination [ESE]		One/Semester

Lab

Sr.	Assessment tools	Tool type	Time Span
No.			-
1	Continuous Assessment Test1[CA1]		One test/semester
2	Continuous Assessment Test 2[CA2]	Direct	One test/semester
3	End Semester Examination [ESE]	Assessment	One/Semester

Course Outcomes for the entire course are defined and they are 4 in number. As the program is affiliated to DBATU, external assessment is done as per the evaluation scheme of university and internal assessment is done as per the policy of the program.

All courses are categorized into 2 categories

3. Courses with theory examination: CO attainment is calculated considering 60 % of university

examination and 40% of internal semester evaluation (CA1, MSE CA2)

4. Courses with practical examination: CO attainment is calculated considering 60% internal evaluation and 40% university examination evaluation

Attainment levels are assigned based on performance in Internal Semester Evaluation and University examinations

Theory

Sr. No.	Assessment tools	Tool type	Attainment Level
1	ContinuousAssessmentTest1[CA1]		3 - 67%-100% 2 - 55%-66% 1 - 40%-54%
2	Mid Semester Examination [MSE]	Direct	3 - 67%-100% 2 - 55%-66% 1 - 40%-54%
3	Continuous Assessment Test 2[CA2]	Assessment	3 - 67%-100% 2 - 55%-66% 1 - 40%-54%
4	End Semester Examination [ESE]		3 - 67%-100% 2 - 55%-66% 1 - 40%-54%

Lab

Sr. No.	Assessment tools	Tool type	Attainment Level
1	ContinuousAssessmentTest1 [CA1]		3 - 81% -100% 2 - 61%-80% 1 - 40%-60%
2	Continuous Assessment Test 2 [CA2]	Direct Assessment	3 - 81%-100% 2 - 61%-80% 1 - 40%-60%
3	End Semester Examination [ESE]		3 - 81%-100% 2 - 61%-80% 1 - 40%-60%

Theory



<u>Lab</u>



Fig2 Process of defining CO attainment practical examination

3.2.2 Record of the attainment of Course Outcomes of all courses with respect to set attainment levels (40)

Course Name: Thermodynamics Year: 2019-20 Course Name: BTMC303							
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Final Direct Course Attainment	Target	Remark	
C303.1		1.2	3	3.00	1.8	Attained	
C303.2	[CA1]/ [CA2]/ [ESE]	1.15	3	2.95	1.8	Attained	
C303.3		1.2	3	3.00	1.8	Attained	
C303.4		1.2	3	3.00	1.8	Attained	

Course Outcome

Attainment: 2.99

Course Name: Theory of Machines I Year: 2019-20						
Course Co	de: BTMEC 402			Se	m-IV	
Course	Assessment Tools	Internal	University	Course		
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark
C402.1		0.9	3	2.70	1.8	Attained
C402.2	[CA1]/ [CA2]/ [ESE]	1.1	3	2.90	1.8	Attained
C402.3		1.2	3	3.00	1.8	Attained
C402.4		1.2	3	3.00	1.8	Attained

Course Outcome Attainment: 2.90

Course Name: Theory of Machines II 2020-21						
Course	Code: BTMEC 504	Sem-V				
Course	Assessment Tools	Internal	University	Course		
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark
C504.1		1	3	2.80	1.95	Attained
C504.2	[CA1]/ [CA2]/ [ESE]	1.1	3	2.90	1.95	Attained
C504.3		1.15	3	2.95	1.95	Attained
C504.4		1.2	3	3.00	1.95	Attained

Course Outcome

Attainment: 2.91

Course Name: Applied Thermodynamics- II Year Year: 2020-21 Course Code: (BTMEC603) Sem-VI						
Course	Assessment Tools	Internal	University	Course		
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark
C603.1		1.2	3	3.00	1.95	Attained
C603.2	[CA1]/ [CA2]/ [ESE]	1.15	3	2.95	1.95	Attained
C603.3		1.2	3	3.00	1.95	Attained
C603.4		1.2	3	3.00	1.95	Attained

Course Outcome Attainment: 2.99

Course Name: Industrial Engineering and management							
Year: 2020	-21						
Course Co	de: BTMEC704B	Sem-VII					
Course	Assessment Tools	Internal	University	Course			
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark	
C704B.1		1.2	3	3.00	2.1	Attained	
C704B.2	[CA1]/ [CA2]/ [ESE]	1.0	3	2.80	2.1	Attained	
C704B.3		1.2	3	3.00	2.1	Attained	
C704B.4		1.2	3	3.00	2.1	Attained	

Course Outcome

Attainment: 2.95

Course Name: Non-Conventional Energy Resources Year : 2021-22						
Course Code: BTMEC802F Sem-VIII						
Course	Assessment Tools	Internal	University	Course		
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark
C802F.1		1.2	3	3.00	2.1	Attained
C802F.2	[CA1]/ [CA2]/ [ESE]	1.2	3	3.00	2.1	Attained
C802F.3		1.2	3	2.95	2.1	Attained
C802F.4		1.2	3	3.00	2.1	Attained

Course Outcome

Attainment: 2.99

Course No	Course Name	CO1	CO2	CO3	CO4	Average CO Attainment
SY Set attain	nment Target	1.8	1.8	1.8	1.8	1.8
PTPSC201	Engineering	2.00	1.97	1.95	1.97	1.97
B1B5C501	Mathematics-III	Attained	Attained	Attained	Attained	Attained
BTMEC302	Materials Science and Metallurgy	2.93	2.94	2.97	2.84	2.92
		Attained	Attained	Attained	Attained	Attained
BTMEC303	Fluid Mechanics	2.99	2.93	2.97	2.97	2.97
		Attained	Attained	Attained	Attained	Attained
		2.93	2.94	2.97	2.84	2.92

BTMEC304	Machine Drawing and CAD	Attained	Attained	Attained	Attained	Attained
BTMEC305	Thermodynamics	2.97 Attained	2.93 Attained	2.97 Attained	2.97 Attained	2.96 Attained
BTHM3401	Basic Human	2.93	2.93	2.92	2.93	2.93
	Rights	Attained	Attained	Attained	Attained	Attained
BTMEL307	Materials Science and Metallurgy Lab	2.96 Attained	2.47 Attained	2.94 Attained	2.49 Attained	2.72 Attained
BTMEL308	Fluid Mechanics	2.98	2.50	2.98	2.50	2.74
	Lab	Attained	Attained	Attained	Attained	Attained
BTMEL309	Machine Drawing and CAD Lab	2.93	2.93	2.92	2.93	2.93
BTMEL310	Field Training	2.55	2.54	2.53	2.54	2.54
	/Internship/Industr	Attained	Attained	Attained	Attained	Attained
BTMEC401	Manufacturing	2.83	2.87	2.72	2.69	2.78
	Processes - I	Attained	Attained	Attained	Attained	Attained
BTMEC402	Theory of	2.72	2.88	2.95	2.96	2.88
	Machines-I	Attained	Attained	Attained	Attained	Attained
BTMEC403	Strength of	2.72	2.88	2.95	2.96	2.88
	Materials	Attained	Attained	Attained	Attained	Attained
BTMEC404	Numerical Methods in Mechanical Engineering	2.85 Attained	2.89 Attained	2.86 Attained	2.61 Attained	2.80 Attained
BTID405	Product Design	2.93	2.93	2.92	2.93	2.93
	Engineering – I	Attained	Attained	Attained	Attained	Attained
BTHM3402	Interpersonal Communication Skill& Self Development	2.93 Attained	2.93 Attained	2.92 Attained	2.93 Attained	2.93 Attained
BTMEL407	Manufacturing	2.37	2.40	2.39	2.42	2.39
	Processes Lab – I	Attained	Attained	Attained	Attained	Attained
BTMEL408	Theory of	2.93	2.93	2.92	2.93	2.93
	Machines Lab- I	Attained	Attained	Attained	Attained	Attained
BTMEL409	Strength of	2.93	2.93	2.92	2.93	2.93
	Materials Lab	Attained	Attained	Attained	Attained	Attained
		1.83	2.32	1.85	2.32	2.08

BTMEL410	Numerical Methods Lab	Attained	Attained	Attained	Attained	Attained	
TY Set attainment	Target	1.95	1.95	1.95	1.95	1.95	
BTMEC501	Heat Transfer	2.95	2.92	2.96	2.96	2.95	
	ficat fransier	Attained	Attained	Attained	Attained	Attained	
BTMEC502	Applied	2.76	2.90	2.90	2.92	2.87	
	Thermodynamics – I	Attained	Attained	Attained	Attained	Attained	
BTMEC503	Machine Design -	2.91	2.92	2.95	2.95	2.93	
	Ι	Attained	Attained	Attained	Attained	Attained	
BTMEC504	Theory of	2.79	2.91	2.91	2.93	2.88	
	Machines- II	Attained	Attained	Attained	Attained	Attained	
BTMEC505	Metrology and	2.89	2.91	2.94	2.95	2.92	
	Quality Control	Attained	Attained	Attained	Attained	Attained	
BTID506	Product Design	2.81	2.91	2.91	2.93	2.89	
	Engineering - II	Attained	Attained	Attained	Attained	Attained	
BTMEC506A	Automobile	2.98	3.00	2.98	2.99	2.99	
	Engineering	Attained	Attained	Attained	Attained	Attained	
BTMEL507	Heat Transfer Lab	2.25	2.33	2.33	2.35	2.31	
		Attained	Attained	Attained	Attained	Attained	
BTMEL508	Applied	2.92	2.94	2.94	2.92	2.93	
	Thermodynamics Lab	Attained	Attained	Attained	Attained	Attained	
BTMEL509	Machine Design	2.38	2.45	2.45	2.46	2.44	
	Practice- I	Attained	Attained	Attained	Attained	Attained	
DTMEL 510	Theory of	2.81	2.84	2.84	2.83	2.83	
BIMEL510	Machines Lab- II	Attained	Attained	Attained	Attained	Attained	
	Field	2.55	2.54	2.53	2.54	2.54	
BTMEF511	Training/Internshi p	Attained	Attained	Attained	Attained	Attained	
	Manufacturing	2.79	2.84	2.65	2.55	2.71	
BTMEC601	Processes- II	Attained	Attained	Attained	Attained	Attained	
	Machine Design-	2.76	2.90	2.90	2.92	2.87	
BTMEC602	II	Attained	Attained	Attained	Attained	Attained	
	Applied	2.95	2.92	2.96	2.96	2.95	
BTMEC603	Thermodynamics- II	Attained	Attained	Attained	Attained	Attained	
BTMEC604B	IC Engines	2.95	2.92	2.96	2.96	2.95	
	-	Attained	Attained	Attained	Attained	Attained	

BTMEC605C	Renewable	2.89	2.93	2.77	2.65	2.81	
DIWLC005C	Energy Sources	A	A	A	A	A 1	
		Attained	Attained	Attained	Attained	Attained	
BTMEC606B	Solar Energy	2.95	2.95	2.94	2.95	2.95	
		Attained	Attained	Attained	Attained	Attained	
BTMEC606B	Solar Energy	2.95	2.95	2.94	2.95	2.95	
		Attained	Attained	Attained	Attained	Attained	
	Metrology and	2.39	2.40	2.42	2.37	2.40	
BTMEL607	Quality Control Lab	Attained	Attained Attained Attaine		Attained	Attained	
	Machine Design	2.39	2.40	2.42	2.37	2.40	
BIMEL608	Practice-II	Attained	Attained	Attained	Attained	Attained	
BTMEL609	IC Engine Lab	2.44	2.89	2.43	2.91	2.67	
		Attained	Attained	Attained	Attained	Attained	
	Refrigeration and	2.44	2.89	2.43	2.91	2.67	
BTMEL610	Air Conditioning Lab	Attained	Attained	Attained	Attained	Attained	
	Technical Project	2.55	2.54	2.53	2.54	2.54	
BTMEM611	for Community Services	Attained	Attained	Attained	Attained	Attained	
B.Tech Set Attainment Target		2.1	2.1	2.1	2.1	2.1	
BTMEC701	Mechatronics	2.93	2.93	2.73	2.61	2.80	
		Attained	Attained	Attained	Attained	Attained	
BTMEC702	CAD/CAM	2.88	2.84	2.76	2.88	2.84	
	Manufacturing			Attained			
BTMEC703	Processes - III	Attained	Attained	Attained	Attained	Attained	
BTMEC704B	Industrial Engineering and	2.97	2.81	2.97	2.97	2.93	
DIMLETOND	Management	Attained	Attained	Attained	Attained	Attained	
BTMEC705C	Wind Energy	2.97	2.81	2.97	2.97	2.93	
		Attained	Attained	Attained	Attained	Attained	
BTMEL706	Manufacturing	2.37	2.85	2.80	2.70	2.68	
	Processes Lab - II	Attained	Attained	Attained	Attained	Attained	
BTMEL707	Mechatronics Lab	2.51	2.51	2.51	2.51	2.51	
		Attained	Attained	Attained	Attained	Attained	
BTMEL708	CAD/CAM Lab	2.37	2.85	2.80	2.70	2.68	
		Attained	Attained	Attained	Attained	Attained	
BTMEL709	Seminar	2.24	2.54	2.53	2.85	2.54	
		Attained	Attained	Attained	Attained	Attained	
		2.55	2.54	2.53	2.54	2.54	

BTMEL710	Field Training /Internship/Industr ial Training III	Attained	Attained	Attained	Attained	Attained	
BTMEM711	Project Stage-I	2.85	2.86	2.85	2.95	2.88	
		Attained	Attained	Attained	Attained	Attained	
BTMEL708	CAD/CAM Lab	2.37	2.85	2.80	2.70	2.68	
		Attained	Attained	Attained	Attained	Attained	
BTMEC801A	Fundamental of Automotive	2.87	2.80	2.73	2.69	2.77	
	Systems (BTMEC801A)	Attained	Attained	Attained	Attained	Attained	
	Non-conventional	2.87	2.80	2.81	2.85	2.83	
BTMEC801F	Energy Resources (BTMEC802F)	Attained	Attained	Attained	Attained	Attained	
BTMEP803	Project Stage-II	2.85	2.86	2.85	2.95	2.88	
	-	Attained	Attained	Attained	Attained	Attained	

3.3 Attainment of Program Outcomes and Program Specific Outcomes (50)

3.3.1 Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)

(Describe the assessment to ols and process esused to gather the data upon which the

evaluation of each of the Program Outcomes and Program Specific Outcomesis basedindicating the frequency with which these processes are carried out. Describe the assessmentprocessesthat demonstrate the degree to which the Program Outcomes and Program Spe cific Outcomes are attained and document the attainment levels)

List of PO and PSO Assessment Tools:

Assessment tools are categorized into two types for Program Outcomes (POs), Program Specific Outcomes (PSOs).

- 3. Direct Assessment Method– Through CO attainment in relevant courses.
- 4. Indirect Assessment Method Employer Feedback, Alumni feedback, Program Exit Survey.

Direct Assessment methods:

CO attainment of course shows knowledge and skills obtained by students from respective courses derived from their performance in the continuous assessment, unit tests, online examinations, insemester examinations, end-semester examinations, reviews, assignments etc. These methods provide strong evidence of student learning.

Indirect Assessment methods:

Surveys of students are taken to know their learning. Feedback of various stake holders like employer, alumni etc. is taken to know the capabilities and necessary improvements.

For e.g.

Program exit Feedback: To evaluate the success of program in providing students with opportunities to achieve the POs and PSOs every year. After completion of program students are able evaluate easily so here given 40% weightage.

Alumni Feedback: To evaluate the success of program in providing alumni with opportunities to achieve the POs and PSOs every year and given 30% weightage.

Employer Feedback: To provide information about our graduate's skills and capability and given 30 % weightage.

PO/PSO Indirect Attainment = 0.4 * Program exit Feedback + 0.3 * Alumni Feedback + 0.3 *

Employer Feedback

Process for Evaluation and Assessment of POs & PSOs

> The activity, questionaries and frequency of feedback is defined by the Program for POs and

PSOs attainment through in direct tools.

The CO-PO and PSO mapping and CO attainment is considered as reference for PO and PSO attainment as a part of direct tool. Here sums weighted formula is used i.e., CO w. r. t. PO attainment = (CO1 attainment* CO-PO and PSO mapping) +

(CO1 attainment* CO-PO and PSO mapping) +
(CO1 attainment* CO-PO and PSO mapping) +
(CO1 attainment* CO-PO and PSO mapping)

Sum of mapping level

The same process is followed to calculate PSO attainment.

PO and PSO attainment are calculated by considering 80% weightage to direct assessment and 20% weightage to indirect assessment through surveys as shown in following figure

PO/PSO Attainment = 0.8 * Direct Attainment + 0.2 * Indirect Attainment



Fig 3 Process of defining PO/PSO Attainment

Direct Assessment Tools:

Continuous Assessment Test1[CA1]
Mid Semester Examination [MSE]
Continuous Assessment Test 2[CA2]
End Semester Examination [ESE]
Lab Continuous Assessment Test 1
Lab Continuous Assessment Test 2

Indirect Assessment Tools:

Course End Survey
Program End Survey
Employer Feedback
Examiner Feedback

3.3.2 Provide results of evaluation of each PO&PSO (40)

Program shall set Program Outcome attainment levels for all POs & PSOs.

(The attainment levels by direct (student performance) and indirect (surveys) are to be presented through Program level Course–PO & PSO matrix as indicated).

·	1	O mila		1		1	1					
Course Name & Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Engineering	1.85	1.85	1.80	1.78		1.80					1.80	1.84
Mathematics – I												
Engineering Physics	1.85	1.71	1.95	1.98		1.75	1.69					1.79
Engineering Graphics	1.40	1.40	1.42	1.42	1.42					1.43		1.38
Communication Skills	2.73				2.81	2.84		2.82		2.80		2.80
Energy and Environment Engineering	2.66	2.69	2.66	2.58		2.61		2.63		2.70		
Basic Civil and	2.41	2.29	2.39	2.45		2.51	2.43			2.42	2.63	
Mechanical Engineering												
Engineering Physics	2.65	2.45	2.48	2.94		2.94	2.94		2.47			2.70
Lab												
Engineering Graphics	2.76	2.98	2.98	2.98	2.76				2.98	2.75		2.76
Lab												
Communication Skills	1.95				2.52	2.62		2.59		2.43		2.47
Lab												
Engineering Mathematics- II	1.89	1.89	1.87	1.92		1.87					1.87	1.89
Engineering Chemistry	2.95	2.92				2.98	2.94		2.87			
Engineering Mechanics	2.97	2.97	2.94			2.91			2.95			2.95
Computer Programming in C	2.91	2.91	2.90						2.93	2.93		2.90
Workshop Practices	2.93				2.93				2.93	2.93		
Computer Programming Lab	2.97	2.97	2.97						2.95	2.94		

PO Attainment:

Engineering Mechanics Lab	2.77	2.79	2.71			2.46	2.46		2.50	2.94		
Engineering Chemistry Lab	2.34	2.29				2.09	2.43		1.92			
Basic Electrical and Electronics Engineering	2.56					2.56	2.58					
Mini Project	2.48	2.48			2.49	2.45	2.48	2.48	2.47	2.49		
Engineering Mathematics-III	<u>1.95</u>	<u>1.99</u>	<u>1.97</u>		<u>1.98</u>				<u>1.97</u>		<u>1.97</u>	<u>1.98</u>
Materials Science and Metallurgy	<u>2.93</u>	<u>2.93</u>	<u>2.93</u>	<u>1.85</u>	<u>2.92</u>	<u>1.48</u>	<u>1.52</u>	<u>1.08</u>	<u>2.91</u>	<u>2.93</u>		
Fluid Mechanics	<u>2.96</u>	<u>2.95</u>	<u>2.96</u>	<u>1.87</u>		<u>1.48</u>	<u>2.12</u>	<u>1.08</u>		<u>2.97</u>		<u>2.96</u>
Machine Drawing and CAD	<u>2.97</u>	<u>2.97</u>	<u>2.96</u>	<u>1.86</u>		<u>1.56</u>	<u>2.12</u>	<u>2.97</u>		<u>2.97</u>		<u>2.96</u>
Thermodynamics	<u>2.96</u>	<u>2.95</u>	<u>2.96</u>				<u>1.83</u>			<u>2.97</u>		<u>2.96</u>
Basic Human Rights	<u>2.93</u>	<u>2.92</u>	<u>2.93</u>	<u>2.16</u>	<u>2.93</u>	<u>1.56</u>	<u>1.89</u>	<u>2.93</u>	<u>2.93</u>	<u>2.93</u>	<u>2.92</u>	<u>2.93</u>
Materials Science and Metallurgy Lab	<u>2.74</u>	<u>2.47</u>	<u>2.76</u>		<u>2.49</u>	<u>2.16</u>	<u>1.89</u>		<u>2.47</u>	<u>2.48</u>		<u>2.71</u>
Fluid Mechanics Lab	<u>2.76</u>	<u>2.66</u>	<u>2.78</u>		<u>2.50</u>		<u>2.82</u>		<u>2.50</u>	<u>2.50</u>		<u>2.74</u>
Machine Drawing and CAD Lab	<u>2.95</u>	<u>2.95</u>	<u>2.78</u>		<u>2.50</u>		<u>1.48</u>		<u>2.50</u>	<u>2.50</u>		<u>2.74</u>
<u>Field Training</u> /Internship/Industrial Training I	<u>2.86</u>	<u>2.91</u>	<u>2.89</u>	<u>2.16</u>	<u>2.87</u>		<u>2.85</u>	<u>2.89</u>	<u>2.85</u>	<u>2.88</u>	<u>2.88</u>	<u>2.90</u>
Manufacturing Processes - I	<u>2.78</u>	<u>2.84</u>	<u>2.78</u>				<u>2.78</u>			<u>2.78</u>		<u>2.78</u>
Theory of Machines-I	<u>2.49</u>	<u>2.16</u>	<u>1.89</u>		<u>2.47</u>			<u>2.71</u>	<u>2.64</u>	<u>2.71</u>	<u>0.00</u>	<u>0.00</u>
Strength of Materials	<u>2.49</u>	<u>2.94</u>	<u>2.71</u>		<u>2.47</u>	<u>2.48</u>		<u>2.71</u>	<u>2.64</u>	<u>2.71</u>	<u>0.00</u>	<u>0.00</u>
Numerical Methods in Mechanical Engineering	<u>2.80</u>	<u>2.80</u>			<u>2.80</u>							
<u>Product Design</u> Engineering – I	<u>2.93</u>	<u>2.92</u>	<u>2.93</u>		<u>2.93</u>		<u>2.93</u>	<u>1.45</u>	<u>2.93</u>	<u>2.93</u>	<u>2.92</u>	<u>2.93</u>
Interpersonal Communication Skill& Self Development		<u>2.91</u>	<u>2.89</u>	<u>2.16</u>	<u>2.87</u>		<u>2.85</u>	<u>1.48</u>	<u>2.85</u>	<u>2.88</u>	<u>2.88</u>	<u>2.90</u>
<u>Manufacturing</u> Processes Lab – I			<u>2.78</u>					<u>2.78</u>	<u>2.78</u>	<u>2.78</u>	<u>0.00</u>	<u>0.00</u>
Theory of Machines Lab- I	<u>2.47</u>			<u>1.89</u>	<u>2.64</u>		<u>0.00</u>					
Strength of Materials Lab	<u>2.47</u>	<u>2.48</u>		<u>1.88</u>	<u>2.64</u>		0.00					
Numerical Methods Lab		<u>2.71</u>		<u>2.12</u>	<u>2.71</u>							
---	-------------	------------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------
	<u>2.94</u>	<u>2.94</u>	<u>2.95</u>			<u>2.18</u>	<u>2.96</u>	<u>1.42</u>		<u>2.96</u>		<u>2.95</u>
<u>Heat Transfer</u> Applied	2.50	2.50	1 67		1.00	1 33	1.00				1.00	1.00
<u>Thermodynamics – I</u>	2.00	<u> <u> </u></u>	1.07		1.00	1.00	1.00				1.00	1.00
<u>Machine Design – I</u>	<u>2.88</u>		<u>2.92</u>		<u>2.92</u>	<u>2.90</u>		<u>2.87</u>		<u>2.91</u>		<u>2.87</u>
Theory of Machines- II	<u>2.92</u>	<u>2.92</u>	<u>2.91</u>		<u>2.91</u>	<u>2.93</u>	<u>2.96</u>		<u>2.79</u>		<u>2.85</u>	<u>2.90</u>
Metrology and Quality Control	<u>2.88</u>	<u>2.88</u>	<u>2.88</u>	<u>2.20</u>	<u>2.87</u>						<u>2.88</u>	<u>2.88</u>
Product Design	<u>2.99</u>	<u>2.99</u>	<u>2.99</u>	<u>2.12</u>	<u>2.99</u>	<u>2.21</u>	<u>2.22</u>	<u>1.50</u>	<u>2.99</u>	<u>2.99</u>	<u>2.99</u>	<u>2.99</u>
<u>Automobile</u> Engineering	<u>2.92</u>	<u>2.92</u>	<u>2.91</u>		<u>2.91</u>	<u>2.22</u>	2.22		<u>2.79</u>		<u>2.85</u>	<u>2.90</u>
Heat Transfer Lab	<u>2.99</u>	<u>2.99</u>	<u>2.99</u>		<u>2.99</u>	<u>2.22</u>	2.22	<u>2.02</u>	<u>2.99</u>	<u>2.99</u>	<u>1.05</u>	<u>2.99</u>
<u>Applied</u> Thermodynamics Lab	<u>2.93</u>	<u>2.93</u>	<u>2.93</u>	<u>1.89</u>	<u>2.92</u>	<u>2.21</u>	<u>2.22</u>	<u>1.89</u>	<u>2.93</u>	<u>2.93</u>	<u>2.93</u>	<u>2.93</u>
Machine Design Practice- I	<u>2.99</u>	<u>2.99</u>	<u>2.99</u>	1.88	<u>2.99</u>		2.22	<u>1.05</u>	<u>2.99</u>	<u>2.99</u>	<u>2.99</u>	<u>2.99</u>
Theory of Machines	2.99	2.99	2.99	2.03	2.99		2.22	1.25	2.99	2.99	2.99	2.99
Field Training /Internship/Industrial	2.86	2.91	2.89	2.01	2.87		2.22	1.25	2.85	2.88	2.88	2.90
Manufacturing Processes- II	2.71	2.71	2.70	2.03	2.72		2.79	2.79				2.71
Machine Design-II	<u>2.88</u>	<u>2.88</u>		<u>2.12</u>		<u>1.50</u>		<u>1.25</u>		<u>2.91</u>		<u>2.87</u>
<u>Applied</u>	<u>2.94</u>	<u>2.95</u>	<u>2.95</u>			<u>2.21</u>	<u>2.23</u>		<u>2.96</u>			<u>2.95</u>
IC Engines	2.88	2.95	2.95			2.21	2.23		2.96			2.95
Renewable Energy	2.81	2.81	2.80	1.80	2.83		2.21	2.89				2.81
Solar Energy	2.95	2.95	2.95	1.80	2.94		2.22					
Metrology and Quality Control Lab	2.40	2.40	2.39		2.38		2.12					2.40
Machine Design Practice-II	2.72	2.59	2.61		2.71			2.20	2.43	2.90		2.62
IC Engine Lab	2.40	2.59	2.61		2.71			2.19	2.43	2.90		2.62
Refrigeration and Air Conditioning Lab	2.72	2.59	2.61		2.71			2.20	2.43	2.90		2.62
Technical Project for Community Services	2.86	2.91	2.89		2.87	2.21	2.21	2.20	2.85	2.88	1.25	2.90
Mechatronics	2.80	2.80	2.80	1.80	2.83		1.85	2.22				2.80
CAD/CAM	2.84	2.80	2.85	2.02	2.83		1.25	2.20				2.80
		1	1	1	1				1	1	1	

Attainment	2.66	2.68	2.69	2.63	2.67	2.62	2.74	2.74	2.70	2.71	2.66	2.68	
Project Stage-II	2.86	2.91	2.89	2.19	2.87	1.58	2.13	1.12	2.85	2.88	1.13	2.90	
Energy Resourses	2.96	2.01	2.90	2.10	207	1.50	2.12	1 1 2	2.05	200	1 1 2	2.00	<u> </u>
Non-Conventional	2.83	2.82	2.82	2.21	2.83	1.23	2.21	1.13		2.87		2.84	
Fundamental of automotive systems	2.91	2.96	3.00		2.88	1.25	2.20		3.00	3.00	1.12		
Project Stage-I	2.55	2.91	2.54		2.55	1.58	2.21	2.20	2.85	2.88	1.05	2.90	
Field Training /Internship/Industrial Training III	2.54	2.54	2.54		2.55	2.21	2.54	2.21	2.54	2.55	1.05	2.54	
Seminar	2.54	2.64	2.66		2.48			1.05	2.54	2.39			
CAD/CAM Lab	2.67	2.80	2.72			2.68	1.55		2.68	2.68		2.68	
Mechatronics Lab	2.53	2.83	2.72			1.56	1.68		2.68	2.68		2.68	
Manufacturing Processes Lab - II	2.67	2.83	2.72			2.68	1.90		2.68	2.68		2.68	
Wind Energy	2.80	2.81	2.94		2.97	2.21	1.54		2.81	2.87		2.89	
Industrial Engineering and Management	2.92	2.81	2.94		2.97	2.21	1.55		2.81	2.87		2.89	
Manufacturing Processes - III	2.84	2.84	2.85	2.01	2.82		1.56	2.20				2.84	

PSO Attainment:

Class	Code	Course	PSO1	PSO2
	BTBS101	Engineering	1.87	1.78
		Mathematics – I		
FY-	BTBS102	Engineering Physics	1.69	1.75
SEMI	BTES 103	Engineering Graphics	1.36	
	BTHM104	Communication	2.72	2.86
		Skills		

	BTES105	Energy and	2.69	2.58
		Environment		
		Engineering		
		Engineering		
	BTES106	Basic Civil and	2.29	2.56
		Mechanical		
		Engineering		
		8 - 6		
	BTBS107L	Engineering Physics	2.45	2.95
		Lab		
	BTES108L	Engineering Graphics	2.96	
		Lab		
			-	
	BTHM109L	Communication	2.41	2.92
		Skills Lab		
			1.05	1.07
	BTBS201	Engineering	1.87	1.87
		Mathematics- II		
	DTDG202	D u sin series	2.00	
	B1B5202	Engineering	3.00	
		Chemistry		
	BTES203	Engineering	2 01	2.08
	D1E3203	Engineering	2.91	2.90
		Mechanics		
	BTBS 204	Computer		
EV	2122 201	Programming in C		
F I - SEMII				
	BTBS205	Workshop Practices	2.94	2.93
		*		
	BTBS206	Computer		
		Programming Lab		
	BTES207L	Engineering	2.46	2.50
		Mechanics Lab		
	BTBS208L	Engineering	2.41	
		Chemistry Lab		

	BTES 209L	Basic Electrical and		
		Electronics		
		Fngineering		
		Lingineering		
	BTES210L	Mini Project	2.48	2.47
		Engineering	1.00	1.00
	BTBSC301	Mathematics-III	1.99	1.98
		Materials Science		
	BTMEC302	and Metallurgy	2.88	2.95
	BTMEC303	Fluid Mechanics	2.98	2.96
		Machine Drawing	• • • •	• • •
	BTMEC304	and CAD	2.98	2.96
SY-			2.97	2.95
SEMIII	BTMEC305	Thermodynamics		
	BTHM3401	Basic Human Rights	2.93	2.92
	BTMEL307	Materials Science and Metallurgy Lab	2.64	2.71
	BTMEL308	Fluid Mechanics Lab	2.74	2.74
		Machine Drawing		
	BTMEL309	and CAD Lab	2.74	2.74
	BTMEF310	Field Training /Internship/Industrial Training I	2.85	2.90
	BTMEC401	Manufacturing Processes - I	2.78	2.78
	BTMEC402	Theory of Machines- I	2.78	2.76
	BTMEC403	Strength of Materials	2.78	2.76
SY- SEM	BTMEC404	Numerical Methods in Mechanical Engineering	2.76	2.86
IV	BTID405	Product Design Engineering – I	2.93	2.92
		Interpersonal Communication Skill& Self	2.85	2.90
	BTHM3402	Development Manufacturing	2 70	2.76
	BTMEL407	Processes Lab – I	2.18	2.70

	BTMEL408	Theory of Machines Lab- I	2.78	2.76
	BTMEI 409	Strength of Materials Lab	2.78	2.76
	BTMEL 10	Numerical Methods	2.76	2.94
	BTMEC501	Heat Transfer	2.96	2.95
	BTMEC502	<u>Applied</u>	1.50	1.50
	DTMEC502	Machina Dasign J	2.87	2.90
	DTMEC504	<u>Theory of Machines-</u>	2.90	2.88
	DTMEC504	<u>Metrology and</u>	2.88	2.88
TY- SEM V	BIMEC505	Product Design	2.99	2.98
	BTID506	<u>Automobile</u>	2.90	2.88
	BIMEC506A	Engineering	2.99	2.98
	BTMEL507	<u>Heat Transfer Lab</u> <u>Applied</u>	2.93	2.93
	BTMEL508	<u>Thermodynamics</u> <u>Lab</u>	2.75	2.95
	BTMEL509	<u>Machine Design</u> <u>Practice- I</u>	2.99	2.98
	BTMEL510	Theory of Machines Lab- II	2.99	2.98
	BTMEF511	Field Training /Internship/Industrial Training II	2.85	2.90
	BTMEC601	Manufacturing Processes- II	2.71	2.71
	BTMEC602	Machine Design-II	2.87	2.90
	BTMEC603	Applied Thermodynamics- II	2.95	2.92
	BTMEC604B	IC Engines	2.95	2.92
TY- SEM VI	BTMEC605C	Renewable Energy Sources	2.81	2.81
	BTMEC606B	Solar Energy	2.95	2.95
	BTMEL607	Metrology and Quality Control Lab	2.40	2.40
	BTMEL608	<u>Machine Design</u> <u>Practice-II</u>	1.00	1.50
	BTMEL609	IC Engine Lab	1.50	1.00

		Refrigeration and Air	1.50	1.00
	BTMEL610	Conditioning Lab		
		Technical Project for	2.85	2.90
	BTMEM611	Community Services	• • • •	• • • •
	BTMEC/01	Mechatronics	2.80	2.80
	BTMEC702	CAD/CAM	2.80	2.80
	BTMEC703	Manufacturing Processes - III	2.84	2.84
	BTMEC704B	Industrial Engineering and Management	2.97	2.89
BTech-	BTMEC705C	Wind Energy	2.97	2.89
VII	BTMEL706	<u>Manufacturing</u> <u>Processes Lab - II</u>	2.68	2.68
	BTMEL707	Mechatronics Lab	2.68	2.68
	BTMEL708	CAD/CAM Lab	2.68	2.68
	BTMES709	<u>Seminar</u>	2.48	2.69
		<u>Field Training</u> /Internship/Industrial	2.85	2.90
	BTMEF710 BTMEP711	Project Stage-I	2.85	2.90
BTech- SEM	BTMEC801A	<u>Fundamental of</u> automotive systems	2.75	2.76
VIII	BTMEC802F	Non-Conventional Energy Resourses	2.86	2.80
	BTMEP803	Project Stage-II	2.85	2.90
	Average	PSO	2.65	2.70

PO and PSO Attainment

Cou rse	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
Attai nme nt	2.65	2.62	2.63	2.54	2.58	2.55	2.66	2.65	2.62	2.65	2.62	2.61	2.55	2.59
Dire ct Attai nme nt	2.66	2.68	2.69	2.63	2.67	2.62	2.74	2.74	2.70	2.71	2.66	2.68	2.65	2.70
Indi rect Attai nme nt	2.58	2.37	2.38	2.20	2.22	2.30	2.31	2.29	2.27	2.42	2.46	2.30	2.17	2.15

A.Y. 2020-21

3.1 Establish the correlation between the courses and the ProgramOutcomes (POs) and Program Specific Outcomes (PSOs)(20)

Program Outcomes as mentioned in Annexure-I and Program Specific Outcomes as defined by the Program.

A. PROGRAM OUTCOMES (POs)

	The students of Mechanical Engineering will be able to:
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

B. PROGRAM SPECIFIC OUTCOMES (PSO)

Mechani	Achanical Engineering graduates will be able to					
PSO1	The students will be able to acquire competencies in the usage of design, thermal and nanufacturing principles to develop a					
	product and process.					
PSO2	The students will be able to impart technological inputs and acquire managerial skills to become technocrats and entrepreneurs.					

3.1.1 Course Outcomes (COs) (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (05)

Sem	Course	СО	Course Outcome
	Material Science and Mettalurgy (BTMEC302)	BTMEC302.1	Study various crystal structures of materials
		BTMEC302.2	Understand mechanical properties of materials and calculations of same using appropriate equations and Evaluate phase diagrams of various materials
SEM-3		BTMEC302.3	Evaluate phase diagrams of various materials and Suggest appropriate heat treatment process for a given application
		BTMEC302.4	Prepare samples of different materials for metallography and Recommend appropriate NDT technique for a given application

		BTMEC402.1	Discuss the terminology and various concepts of mechanisms, friction and lubrication.				
SEM-4	Theory of Machines I (BTMEC402)	BTMEC402.2	Determine the velocity and acceleration of various types of mechanisms.				
		BTMEC402.3	Classify various follower motions by drawing the cam profiles.				
		BTMEC402.4	Evaluate the performance of clutch, brakes, dynamometers and balancing machines.				
	Theory of Machines II (BTMEC 504)	BTMEC504.1	Discuss the terminology and working principles for various types of transmission drives.				
		BTMEC504.2	Calculate velocity ratio and power transmitted by transmission drives.				
SEM-5		BTMEC504.3	Analyze the performance of governor, flywheel and gyroscope				
		BTMEC504.4	Evaluate the effect of various types of vibration on mechanical systems.				

		BTMEC603.1	Define the nomenclature related to IC engines, fundamental difference between SI and CI engines.
		BTMEC603.2	Explain Various Engine Systems, Engine Testing and Performance of SI and CI Engines
SEM-6 Applied Thermodynamics- I (BTMEC603)	Applied Thermodynamics- II (BTMEC603)	BTMEC603.3	Apply the methods of cooling, Refrigeration systems, Thermodynamics of Refrigeration, Air refrigeration system.
		BTMEC603.4	Analyze the types of Power Plant like Thermal Power Plant, Diesel Power Plant, Gas Turbine power plant, Hydro-electric Power Plant, Nuclear Power Plant
		BTMEC704B.1	Define the terms related management like, functions of management, evolution of management theory, contributions of Taylor, Fayol and others
SEM-7	7	BTMEC704B.2	Explain Leading: Managing and human factor, motivation, leadership, morale, team building, communication. Controlling: The system and process of controlling control techniques, overall and preventive control
	and management (BTMEC704B)	BTMEC704B.3	Apply Operations management in corporate profitability and competitiveness, types and characteristics of manufacturing systems, types and characteristics of services systems.
		BTMEC704B.4	Analyze Concurrent Engineering: Producibility, manufacturability, productivity improvement, Total Quality Management: Just in time (JIT), total quality control, quality circles, six sigma
	Non-Conventional	BTMEC802F.1	Demonstrate the generation of electricity from various non-conventional sources of energy, have a working knowledge on types of fuel cells.
SEM-8	Energy Resources (BTMEC802F)	BTMEC802F.2	Estimate the solar energy, Utilization of it, Principles involved in solar energy collection and conversion of it to electricity generation.
		BTMEC802F.3 BTMEC802F.4	Explore the concepts involved in wind energy conversion system by studying its components, types and performance Illustrate ocean energy and explain the operational
			methods of their utilization.

3.3.1 CO-PO matrices of courses selected in 3.1.1 (six matrices to be mentioned; one per semester from the 3rd to the 8th semester) (05)

All the courses in curriculum are studied in detail and correlation with POs and PSOs are declared. Six matrices are mentioned here from the 3^{rd} to the 8^{th} semester. Record for all courses is available with the program.

CO-PO matrices

	Course Name: BTMEC305												
Course		Program Outcome (PO)											
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
BTMEC305.1	2	2	1										
BTMEC305.2	3	2	2	3	2								
BTMEC305.3	2	2	2	1	2	1	2	1	1	2			
BTMEC305.4	1	1	1	2	2	2	1		1	1			
Average	2.00	1.75	1.50	2.00	3.00	1.50	1.50	1.00	1.00	1.50			
		Course Name: BTMEC402											
Course			P	rogran	n Outc	ome (P	0)						
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	B PO	9 PO1	0 PO11	PO12	
BTMEC402.1	3			1								2	
BTMEC402.2	3	2	2	1								2	
BTMEC402.3	3	3	2	3								1	
BTMEC402.4	3	3	2	3								2	
Average	3.00	2.67	2.00	2.00								1.75	

		Course Name: BTMEC504										
Course	Program Outcome (PO)											
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTMOE504C.1	2			1		1				1		1
BTMOE504C.2	3	2	2	1		2						
BTMOE504C.3	3	3	2	3	2	2	1					1
BTMOE504C.4	3	3	2	3	2	3	1	1				
Average	2.75	2.67	2.00	2.00	2.00	2.00	1.00	1.00		1.00		1.00

		Course Name: BTMEC603										
Course	Program Outcome (PO)											
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTMEC603.1	3											
BTMEC603.2	3	2	2									2
BTMEC603.3	2	3	3			2						3
BTMEC603.4			3			2	2		1			2
Average	2.67	2.50	2.67		3.00		2.00		1.00			2.33

		Course Name: BTMEC704B										
Course Outcome	Program Outcome (PO)											
outcome	PO1	PO2	PO3	P O4	PO5	PO 6	PO7	P O8	PO9	PO10	PO11	PO12
BTMEC704B .1	3											
BTMEC704B .2	3	2	2									2
BTMEC704B .3	2	3	3				2			3		3
BTMEC704B .4			3							2		2
Average	2.67	2.50	2.67		3.00		2.00			2.50		2.33

		Course Name: BTMEC802F										
Course	Program Outcome (PO)											
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTMEC802F.1	3	1	1	1		3	3	1		2		2
BTMEC802F.2	3	2	2	2		3	3	2		2	2	1
BTMEC802F.3	3	2	2			3	3	1		1	2	2
BTMEC802F.4	3	2	2			3	3	1		1		1
Average	3.0	1.8	1.8	1.5		3.0	3.0	1.3		1.5		1.5

CO-PSO matrices

Course Name: BTMEC302							
Course	PSO1	PSO2					
BTMEC302.1	2						
BTMEC302.2		2					
BTMEC302.3		2					
BTMEC302.4	2						
Average	2.00	2.00					

Course Name: BTMEC402								
Course	PSO1	PSO2						
BTMC402.1	1	1						
BTMC402.2	2	2						
BTMC402.3	1	1						
BTMC402.4	2	2						
Average	1.50	1.50						

Course Name: BTMEC504								
Course	PSO1	PSO2						
BTMEC504.1	1							
BTMEC504 .2		2						
BTMEC504 .3		2						
BTMEC504 .4	2							
Average	1.50	2.00						

Course Name: BTMEC603								
Course	PSO1	PSO2						
BTMEC603.1	2							
BTMEC603.2		2						
BTMEC603.3								
BTMEC603.4								
Average	2.00	2.00						

Course Name: BTMEC704B							
Course	PSO1	PSO2					
BTMEC704B.1	1						
BTMEC704B.2		2					
BTMEC704B.3		2					
BTMEC704B.4	2						
Average	1.50	2.00					

Course Name: BTMEC802F								
Course	PSO1	PSO2						
BTMEC802F.1	3							
BTMEC802F.2		2						
BTMEC802F.3		1						
BTMEC802F.4	2							
Average	2.5	1.5						

3.1.3 Program level Course-PO matrix of all courses INCLUDING first year courses (10)

CO-PO correlation matrix for all courses in the program is given below. Course code is mentioned in the first column and correlation with POs is indicated as 1) slight, 2) moderate and 3) High. Courses not having any correlation is indicated by '-'. This correlation is derived from CO-PO mapping of the individual course. Average of all COs is taken and mapped at level 1, 2 and 3.

Class	Course Name & Code	DOI	DOG	DOI	DO 4	DOS	DOG	D 07	DOG	DOG	DOID	POIL	DOIO
		POI	P02	P03	PO4	P05	P06	P07	P08	P09	POIO	POIT	P012
FY-SEMI	Engineering Mathematics – I	2.00	2.33	2.00	2.00		1.00					2.00	1.50
	Communication Skills	2.50				2.00	3.00		1.50		2.50		1.50
	Engineering Physics	2.00	2.00	2.00	3.00		1.50	2.00					2.00
	Engineering Graphics	1.67	3.00	2.00	3.00	2.50					2.50		2.00
	Basic Civil Engineering	2.25	2.00	2.50	2.50		2.00	2.00	2.00		2.50	2.00	
	Energy and Environment Engineering	2.00	2.50	2.00	1.50		1.50	3.00	2.00		2.00	1.00	
	Communication Skills Lab	2.50				2.50	3.00		2.50		2.50		1.67
	Engineering Physics Lab	2.33	2.00	2.00	3.00		2.50	2.00		2.50			2.00
	Engineering Graphics Lab	1.50	2.50	2.50	2.50	2.00				2.00	2.50		2.50
	Basic Civil Engineering Lab	2.25	2.50	2.50	2.50		2.50	2.00	2.00		2.50	2.50	
	Workshop Practices	2.50				2.00				2.00	2.00		
FY-SEMII	Engineering Mathematics- II	1.50	2.67	2.00	2.00		2.50					2.00	1.50
	Engineering Mechanics	2.50	3.00	2.00			1.50			1.50			
	Engineering Chemistry	2.00	1.50				2.00	2.00		2.00			
	Basic Electrical Engineering	2.50					2.00	1.50					
	Basic Electronics Engineering	2.50					2.00	2.00					
	Basic Computer Programming	2.25	2.50	2.50						2.00	2.00		
	Engineering Mechanics Laboratory	2.50	2.00	2.00			2.00	2.50		2.50	2.50		
	Engineering Chemistry Laboratory	2.33	2.00				2.50	2.00		2.50			

	Basic Electrical Engineering Laboratory	3.00					2.50	2.00					
	Basic Electronics Engineering Laboratory	3.00					2.50	2.00					
	Basic Computer Programming Laboratory	2.25	1.50	2.50						2.50	2.50		
SY-SEMIII	Engineering Mathematics-III	1.00	1.50	2.00									
	Materials Science and Metallurgy	2.00	1.75	1.50	2.00	3.00	1.50	1.50	1.00	1.00	1.50		
	Fluid Mechanics	3.00	3.00	1.75	2.00	3.00		2.25		2.00	2.00	2.00	1.25
	Machine Drawing and CAD	2.00	1.75	1.50	2.00	2.00	1.50	1.50	1.00	1.00	1.50		
	Thermodynamics	3.00	3.00	1.75	2.00	3.00		2.25		2.00	2.00	2.00	1.25
	Basic Human Rights	1.60	1.40	1.00	2.00	1.20	1.00	1.00	1.00	1.00	1.00	1.00	3.00
	Materials Science and Metallurgy Lab	2.25	2.00	2.00		3.00	2.00	2.00		2.00	2.50		2.00
	Fluid Mechanics Lab	2.25	1.50	2.50		3.00	3.00	1.50		1.50	2.00		2.00
	Machine Drawing and CAD Lab	2.50	1.00	1.00		1.00				2.00	1.33		1.25
	Field Training /Internship/Industrial Training I	2.67	2.00	3.00	2.00	2.50	3.00	2.00	3.00	2.67	2.50	3.00	3.00
SY-SEM IV	Manufacturing Processes - I	1.75	1.50	1.00			1.00	1.00			1.00		1.00
	Theory of Machines-I	3.00	2.67	2.00	2.00								1.75
	Strength of Materials	2.50	2.50	3.00	2.67								2.25
	Numerical Methods in Mechanical Engineering	3.00	3.00		1.00	2.00							
	Product Design Engineering – I	3.00	2.75	2.50	2.75	2.50	3.00	3.00	2.00	3.00	2.00	1.00	3.00
	Interpersonal Communication Skill& Self Development								2.00	2.00	1.67	1.75	2.75
	Manufacturing Processes Lab – I	1.75	1.50	1.00			1.00	1.00			1.00		1.00
	Theory of Machines Lab- I	3.00	2.50	1.67	2.00	1.00				2.00	2.00		1.50
	Strength of Materials Lab	1.00	1.25	2.00	1.50		1.00		1.00				
	Numerical Methods Lab	3.00	3.00		1.00	3.00							

TY-SEM V	Heat Transfer	2.25	2.50	2.67	2.00		1.00	1.00	1.00		1.00		2.00
	Applied Thermodynamics – I	2.50	2.50	1.67	2.00	1.00	1.33	1.00		0.00		0.00	1.00
	Machine Design – I	2.50	2.50	1.67	2.00	1.00	1.33	1.00		0.00		0.00	1.00
	Theory of Machines- II	2.75	2.67	2.00	2.00	2.00	2.00	1.00	1.00	0.00	1.00	0.00	1.00
	Metrology and Quality Control	3.00	3.00	2.00	2.00	3.00						1.00	2.00
	Product Design Engineering - II	3.00	2.75	2.50	2.75	2.50	3.00	3.00	2.00	3.00	2.00	1.00	3.00
	Automobile Engineering	3.00		3.00	3.00	3.00		2.00	2.00	2.67	2.00		2.67
	Heat Transfer Lab	2.25	1.50	2.50		3.00	3.00	1.50		1.50	2.00		2.00
	Applied Thermodynamics Lab	3.00	2.25	2.50		3.00	2.00	2.00			2.00		3.00
	Machine Design Practice- I	2.50	2.50	1.67		3.00	1.50	1.00			1.00		1.00
	Theory of Machines Lab- II	3.00	2.75	2.50		3.00	3.00	2.00			2.00		3.00
	Field Training /Internship/Industrial Training II	2.67	2.00	3.00	2.00	2.50	3.00	2.00	3.00	2.67	2.50	3.00	3.00
TY-SEM VI	Manufacturing Processes- II	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	Machine Design-II	2.00	1.50	2.00	2.00		1.00		1.00		1.00		1.00
	Applied Thermodynamics- II	2.67	2.50	2.67		3.00		2.00					2.33
	IC Engines	3.00	2.50	2.00	2.25	1.67		2.50	1.00			1.00	1.00
	Renewable Energy Sources	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	Solar Energy	2.00	1.50	2.00	2.00		1.00		1.00		1.00		1.00
	Metrology and Quality Control Lab	3.00	2.00	2.00		3.00		1.00					2.00
	Machine Design Practice-II	2.00	1.50	2.00		3.00	1.00				1.00		1.00
	IC Engine Lab	2.00	1.75	1.00	2.00	2.50	1.00	1.00		1.67	1.00	2.00	1.00
	Refrigeration and Air Conditioning Lab	1.00	2.00	1.75	1.67	3.00		3.00		3.00	2.50	3.00	2.00
	Technical Project for Community Services	1.00	1.33	1.75	1.67	3.00		3.00		3.00	2.50	1.67	2.00
BTech-SEM VII	Mechatronics	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	CAD/CAM	2.00	3.00	1.33	2.00	3.00	<u> </u>	2.00	2.00				1.00

	Manufacturing Processes - III	3.00	3.00	1.33	2.00	3.00		2.00	2.00				1.00
	Industrial Engineering and Management	2.67	2.50	2.67		3.00		2.00			2.50		2.33
	Wind Energy	3.00	2.75	1.50	3.00	2.00	1.00	1.00		1.00	1.67		2.00
	Manufacturing Processes Lab - II	2.75	3.00	2.00			1.00	1.00		1.00	1.00		1.00
	Mechatronics Lab	2.75	2.75	1.50	3.00	2.33	1.00	1.00		1.00	1.00		
	CAD/CAM Lab	1.00	2.00	1.75	1.67	3.00		3.00		3.00	2.50	3.00	2.00
	Seminar	3.00	2.75	1.50	3.00	2.00	1.00	1.00		1.00	1.67		2.00
	Field Training /Internship/Industrial Training III	2.25	1.50	2.50		3.00	3.00	1.50		1.50	2.00		2.00
	Project Stage-I	2.00	3.00		1.50	3.00	1.00	1.00	2.00	3.00	3.00	3.00	3.00
BTech-SEM VIII	Fundamental of automotive systems	3.00	2.00	2.00	1.75		1.50	1.00	1.25		1.25		1.25
	Non-Conventional Energy Resourses	3.00	1.75	1.75	1.50		3.00	3.00	1.25		1.50		1.50
	Project Stage-II	2.00	3.00				1.00	1.00		3.00	3.00		3.00
P	ACTUAL AVERAGE PO	2.39	2.27	1.97	2.12	2.51	1.86	1.79	1.70	1.89	1.87	1.69	1.81

Program level Course- PSO matrix:

CO-PSO correlation matrix for all courses in the program is given below. Course code is mentioned in the first column and correlation with PSOs is indicated as 1) slight, 2) moderate and 3) High. Courses not having any correlation are indicated by-. This correlation is derived from CO-PSO mapping of the individual course. Average of all Cos is taken and mapped at level 1, 2 and 3

	Academic Year: 2020-21	Program Specific Outcome (PSO)		
Class	Course	PSO1	PSO2	
	Engineering Mathematics – I	2.50	1.50	
	Communication Skills	2.00	2.50	
	Engineering Physics	1.50	2.50	
	Engineering Graphics	2.00		
	Basic Civil Engineering	2.50	2.00	
FY- SEMI	Energy and Environment Engineering	2.00	1.50	
	Communication Skills Lab	2.00	2.50	
	Engineering Physics Lab	2.00	2.50	
	Engineering Graphics Lab	2.50		
	Basic Civil Engineering Lab	2.50	2.00	
	Workshop Practices	1.50	2.50	
	Engineering Mathematics- II	2.50	1.50	
	Engineering Mechanics	2.50	1.50	
FY- SEMII	Engineering Chemistry	2.50		
	Basic Electrical Engineering			
	Basic Electronics Engineering			

	Basic Computer Programming		
	Engineering Mechanics Laboratory	2.50	2.50
	Engineering Chemistry Laboratory	2.00	
	Basic Electrical Engineering Laboratory		
	Basic Electronics Engineering Laboratory		
	Basic Computer Programming Laboratory		
	Engineering Mathematics-III	2.00	
	Materials Science and Metallurgy	2.00	2.00
	Fluid Mechanics	3.00	1.00
	Machine Drawing and CAD	2.00	2.00
SY- SEMIII	Thermodynamics	3.00	1.00
	Basic Human Rights	3.00	2.00
	Materials Science and Metallurgy Lab	1.50	2.00
	Fluid Mechanics Lab	2.00	2.00
	Machine Drawing and CAD Lab	1.75	1.25
	Field Training /Internship/Industrial Training I	2.67	2.00
	Manufacturing Processes - I	3.00	1.00
	Theory of Machines-I	1.50	1.50
	Strength of Materials	1.50	1.75
	Numerical Methods in Mechanical Engineering		
	Product Design Engineering – I	1.00	1.50
SY- SEM IV	Interpersonal Communication Skill& Self Development	1.00	1.75
	Manufacturing Processes Lab – I	3.00	1.00
	Theory of Machines Lab- I	1.50	1.50
	Strength of Materials Lab		2.25
	Numerical Methods Lab	2.50	1.00

	Heat Transfer	1.50	1.50
	Applied Thermodynamics – I	1.50	1.50
	Machine Design – I	1.50	1.50
	Theory of Machines- II	1.50	2.00
	Metrology and Quality Control	3.00	1.00
TY- SEM V	Product Design Engineering - II	1.00	1.50
	Automobile Engineering		
	Heat Transfer Lab	2.00	2.00
	Applied Thermodynamics Lab	1.75	2.00
	Machine Design Practice- I	1.50	1.50
	Theory of Machines Lab- II	1.00	1.50
	Field Training /Internship/Industrial Training II	2.67	2.00
	Manufacturing Processes- II	3.00	1.00
	Machine Design-II	1.50	1.50
	Applied Thermodynamics- II	2.00	2.00
	IC Engines	3.00	1.00
	Renewable Energy Sources	3.00	1.00
TY- SEM VI	Solar Energy	1.50	1.50
	Metrology and Quality Control Lab	3.00	2.00
	Machine Design Practice-II	1.50	1.50
	IC Engine Lab	3.00	1.50
	Refrigeration and Air Conditioning Lab	3.00	1.00
	Technical Project for Community Services	3.00	1.00
	Mechatronics	3.00	1.00
BTech- SEM VII	CAD/CAM	3.00	1.00
	Manufacturing Processes - III	3.00	1.00

	Industrial Engineering and Management	1.50	2.00
	Wind Energy	3.00	1.75
	Manufacturing Processes Lab - II	3.00	1.00
	Mechatronics Lab	3.00	1.00
	CAD/CAM Lab	3.00	1.00
	Seminar	3.00	1.75
	Field Training /Internship/Industrial Training III	2.00	2.00
	Project Stage-I		
	Fundamental of automotive systems	1.50	1.50
VIII	Non-Conventional Energy Resourses	2.50	1.50
	Project Stage-II		
Average PSO	·	2.22	1.60

3.2 Attainment of Course Outcomes

(50)

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

(Examples of data collection processes may include, but are not limited to tutorial questions, assignments, laboratory tests, project evaluation, student portfolios(A portfolio is a collection of artifacts that demonstrate skills, personal characteristics and accomplishments created by the student during study period), internally developed assessment exam s, project presentations, oral exams etc.)

The key aspects in Outcome Based Education (OBE) are the assessment of course outcomes. At the initial stage of OBE implementation, the Course Outcomes (COs) for each course are defined based on the Program Outcome (POs) and other requirements. At the end of each course, the COs needs to be assessed and evaluated, to check whether it has been attained or not. Assessment is one more processes, carried out by the department, that identify, collect, and prepare data to evaluate the achievement of program educational objectives and program outcomes. Attainment is the action or fact of achieving a standard result towards accomplishment of desired goals. Primarily attainment is the standard of academic attainment as observed by test or examination result. Attainment of the COs can be measured by using direct and indirect tools. Direct attainment basically displays the student's knowledge and skills from their academic performance. It can be determined from the performance of the students in all the relevant assessment tools – like internal assessments, assignments, quiz and final university examination etc. These methods provide a sampling of what students know and /or actions they can perform, offering substantial.

This program consists of various types of courses for fulfillment of POs and PSOs. The process of data collection for attainment of COs is properly identified depending on the type of course. Major types of courses are

1.	Theory
2.	Practical/Oral/TW
3.	Tutorial
4.	Seminar
5.	Project
6.	Audit course

The Institution strives hard to ensure that the Learning across all the courses of the curriculum is Outcome oriented. There is continuous assessment of learning outcomes attainment and this procedure has been refined over a period of time. The following are the two broadly classified tools used for assessment of Learning Outcome Attainment

• Direct Assessment Method:

Data collection mechanism includes direct assessment process which is

Theory

- 1. Continuous Assessment Test 1
- 2. Mid Semester Examination
- 3. Continuous Assessment Test 2
- 4. End Semester Examination

Lab

- 1. Continuous Assessment Test 1
- 2. Continuous Assessment Test 2
- 3. End Semester Examination

Data collection process for all above type of courses is clearly defined in table 3.2.1a given below.

Table 3.2.1a: Assessment Tools

Sr.	Assessment tools	Tool type	Time Span
No.			
1	Continuous Assessment Test1[CA1]		One test/semester
2	Mid Semester Examination [MSE]	Direct	One test/semester
3	Continuous Assessment Test 2 [CA2]	Assessment	One/Semester
4	End Semester Examination [ESE]		One/Semester

Lab

Sr.	Assessment tools	Tool type	Time Span
No.			
1	Continuous Assessment Test1[CA1]		One test/semester
2	Continuous Assessment Test 2[CA2]	Direct	One test/semester
3	End Semester Examination [ESE]	Assessment	One/Semester

Course Outcomes for the entire course are defined and they are 4 in number. As the program is affiliated to DBATU, external assessment is done as per the evaluation scheme of university and internal assessment is done as per the policy of the program.

All courses are categorized into 2 categories

- 5. Courses with theory examination: CO attainment is calculated considering 60 % of university examination and 40% of internal semester evaluation (CA1, MSE CA2)
- 6. Courses with practical examination: CO attainment is calculated considering 60% internal evaluation and 40% university examination evaluation

Attainment levels are assigned based on performance in Internal Semester Evaluation and University examinations

Theory

Sr. No.	Assessment tools	Tool type	Attainment Level
1	ContinuousAssessmentTest1[CA1]		3 - 67%-100% 2 - 55%-66% 1 - 40%-54%
2	Mid Semester Examination [MSE]	Direct	3 - 67%-100% 2 - 55%-66% 1 - 40%-54%
3	Continuous Assessment Test 2[CA2]	Assessment	3 - 67%-100% 2 - 55%-66% 1 - 40%-54%
4	End Semester Examination [ESE]		3 - 67%-100% 2 - 55%-66% 1 - 40%-54%

Lab

Sr.No.	Assessment tools	Tool type	Attainment Level
1	ContinuousAssessmentTest1 [CA1]		3 - 81% -100% 2 - 61%-80% 1 - 40%-60%
2	Continuous Assessment Test 2 [CA2]	Direct Assessment	3 - 81%-100% 2 - 61%-80% 1 - 40%-60%
3	End Semester Examination [ESE]		3 - 81%-100% 2 - 61%-80% 1 - 40%-60%

Theory



<u>Lab</u>



Fig2 Process of defining CO attainment practical examination

3.2.2 Record of the attainment of Course Outcomes of all courses with respect to set attainment levels (40)

Course Na Year: 2020	me: Materials Scien -21	ce and Metallurg	3y			
Course Na	me: BTMEC302					
Sem-II	[
Course	Assessment Tools	Internal	University	Final Direct		
Outcomes		Assessment	Result	Course		
		Attainment	Attainment	Attainment	Target	Remark
BTMEC3		1.2	3	2.86	1.8	Attained
02.1						
BTMEC3	[CAI]/ [CA2]/	1.15	3	2.86	1.8	Attained
02.2	[ESE]					
BTMEC3		1.2	3	2.88	1.8	Attained
02.3						
BTMEC3		1.1	3	2.79	1.8	Attained
02.4						

Course Outcome

Attainment: 2.85

Course Na	me: Theory of Mac	hines I Year: 2	2020-21			
Course Co	de: BTMEC402			Sei	m-IV	
Course	Assessment Tools	Internal	University	Course		
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark
BTMEC40 2 .1	[CA1]/ [CA2]/ [ESE]	1	3	2.66	1.8	Attained
BTMEC40 2 .2	[202]	1	3	2.70	1.8	Attained
BTMEC40 2 .3		1	3	2.57	1.8	Attained
BTMEC40 2 .4		1	3	2.61	1.8	Attained

Course Outcome Attainment: 2.63

Course	Name: Theory of M	fachines II 2020	-21			
Course	Code: BTMEC 504	Sem-V				
Course	Assessment Tools	Internal	University	Course		
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark
BTMEC50 4.1	[CA1]/ [CA2]/	1.2	3	2.96	1.95	Attained
BTMEC50 4.2	[ESE]	1.15	3	2.92	1.95	Attained
BTMEC50 4.3		1.2	3	2.95	1.95	Attained
BTMEC50 4.4		1.2	3	2.96	1.95	Attained

Course Outcome

Attainment: 2.95

Course Course	Name: Applied The Code: (BTMH	ermodynamics- II EC603)	Year Year: 20	20-21		
Sem-VI	× ×	,				
Course	Assessment Tools	Internal	University	Course		
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark
BTMEC60 3.1	[CA1]/ [CA2]/	1.2	2	2.50	1.95	Attained
BTMEC60 3.2	[ESE]	1.15	2	2.46	1.95	Attained
BTMEC60 3.3		1.2	2	2.50	1.95	Attained
BTMEC60 3.4		1.2	2	2.50	1.95	Attained

Course Outcome Attainment: 2.49

Course Na	me: Industrial Engin	neering and mana	agement			
Year: 2020	-21					
Course Co	de: BTMEC704B	Sem-VII				
Course	Assessment Tools	Internal	University	Course		
Outcomes		Assessment Attainment	Result Attainment	Attainment	Target	Remark
BTMEC70 4B.1	[CA1]/ [CA2]/	1.2	3	2.99	2.1	Attained
BTMEC70 4B.2	[ESE]	1.15	3	2.95	2.1	Attained
BTMEC70 4B.3		1.2	3	2.99	2.1	Attained
BTMEC70 4B.4		1.2	3	2.99	2.1	Attained

Course Outcome

Attainment: 2.98

Course Nan	ne: Non-Conventio	nal Energy Res	ources Year: 2	2020-21		
Course Cod	e: BTMEC802F				S	Sem-VIII
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
BTMEC80 2F.1	[CA1]/ [CA2]/	1.1	3	2.80	2.1	Attained
BTMEC80 2F.2	[ESE]	1.1	3	2.76	2.1	Attained
BTMEC80 2F.3		1.2	3	2.85	2.1	Attained
BTMEC80 2F.4		1.2	3	2.85	2.1	Attained

Course Outcome

Attainment: 2.81

Course No	Course Name	CO1	CO2	CO3	CO4	Average CO Attainment
SY Set CO Attain	ment Target	1.8	1.8	1.8	1.8	1.8
	Engineering	2.91	2.79	2.64	2.91	2.81
BTBSC301	Mathematics-III	Attained	Attained	Attained	Attained	Attained
	Materials Science	2.86	2.86	2.88	2.79	2.85
BTMEC302	and Metallurgy	Attained	Attained	Attained	Attained	Attained
BTMEC303	Fluid Mechanics	2.84	2.62	2.69	2.86	2.75
		Attained	Attained	Attained	Attained	Attained
	Machine Drawing	2.62	2.84	2.73	2.54	2.68
BTMEC304	and CAD	Attained	Attained	Attained	Attained	Attained
BTMEC305	Thermodynamics	2.84	2.62	2.69	2.86	2.75
		Attained	Attained	Attained	Attained	Attained
	Basic Human	2.34	2.70	2.94	2.96	2.74
BTHM3401	Rights	Attained	Attained	Attained	Attained	Attained
	Materials Science	2.96	3.00	3.00	3.00	2.99
BTMEL307	and Metallurgy Lab	Attained	Attained	Attained	Attained	Attained
	Fluid Mechanics	2.97	2.49	2.01	2.49	2.49
BTMEL308	Lab	Attained	Attained	Attained	Attained	Attained
	Machine Drawing	2.62	2.94	2.95	2.95	2.87
BTMEL309	and CAD Lab	Attained	Attained	Attained	Attained	Attained
	Field Training	2.55	2.54	2.53	2.54	2.68
BTMEF310	/Internship/Industr ial Training I	Attained	Attained	Attained	Attained	Attained
	Manufacturing	2.93	2.88	2.73	2.60	2.79
BTMEC401	Processes - I	Attained	Attained	Attained	Attained	Attained
	Theory of	2.66	2.70	2.57	2.61	2.63
BTMEC402	Machines-I	Attained	Attained	Attained	Attained	Attained
	Strength of	2.60	2.92	2.93	2.93	2.84
BTMEC403	Materials	Attained	Attained	Attained	Attained	Attained
	Numerical	2.03	2.03	2.54	2.68	2.32
	Methods in	Attained	Attained	Attained	Attained	Attained
	Mechanical					
BTMEC404	Engineering					
	Product Design	2.66	2.70	2.57	2.61	2.63
BTID405	Engineering – I	Attained	Attained	Attained	Attained	Attained
BTHM3402	Interpersonal	2.49	2.79	2.57	2.68	2.63
-	Communication	Attained	Attained	Attained	Attained	Attained

	Skill& Self					
	Development					
	Manufacturing	2.52	2.68	2.74	2.81	2.73
BTMEL407	Processes Lab – I	Attained	Attained	Attained	Attained	Attained
	Theory of	2.47	2.00	2.90	2.96	2.58
BTMEL408	Machines Lab- I	Attained	Attained	Attained	Attained	Attained
	Strength of	2.82	2.83	2.86	2.74	2.81
BTMEL409	Materials Lab	Attained	Attained	Attained	Attained	Attained
	Numerical	2.92	2.95	2.91	2.86	2.91
BTMEL410	Methods Lab	Attained	Attained	Attained	Attained	Attained
TY Set CO attai	nment Target	1.95	1.95	1.95	1.95	1.95
BTMEC501	Heat Transfer	2.99	2.94	2.98	2.98	2.98
		Attained	Attained	Attained	Attained	Attained
	Applied	2.96	2.97	2.96	2.94	2.96
BTMEC502	Thermodynamics – I	Attained	Attained	Attained	Attained	Attained
	Machine Design –	2.96	2.97	2.92	2.94	2.95
BTMEC503	Ι	Attained	Attained	Attained	Attained	Attained
	Theory of	2.96	2.92	2.95	2.96	2.95
BTMEC504	Machines- II	Attained	Attained	Attained	Attained	Attained
	Metrology and	1.47	1.42	1.45	1.41	1.44
BTMEC505	Quality Control	Attained	Attained	Attained	Attained	Attained
	Product Design	2.93	2.93	2.92	2.93	2.93
BTID506	Engineering - II	Attained	Attained	Attained	Attained	Attained
	Automobile	2.95	2.93	2.68	2.68	2.81
BTMEC506A	Engineering	Attained	Attained	Attained	Attained	Attained
BTMEL507	Heat Transfer Lab	2.94	2.46	2.94	2.46	2.70
		Attained	Attained	Attained	Attained	Attained
	Applied	2.96	2.97	2.96	2.94	2.96
BTMEL508	Thermodynamics Lab	Attained	Attained	Attained	Attained	Attained
	Machine Design	2.96	2.97	2.96	2.94	2.96
BTMEL509	Practice- I	Attained	Attained	Attained	Attained	Attained
	Theory of	2.93	2.93	2.92	2.93	2.93
BTMEL510	Machines Lab- II	Attained	Attained	Attained	Attained	Attained
	Field Training	2.90	2.38	2.36	2.38	2.51
BTMEF511	/Internship/Industr ial Training II	Attained	Attained	Attained	Attained	Attained

	Manufacturing	2.79	2.84	2.65	2.54	2.71
BTMEC601	Processes- II	Attained	Attained	Attained	Attained	Attained
	Machine Design-	2.96	2.97	2.96	2.94	2.96
BTMEC602	II	Attained	Attained	Attained	Attained	Attained
	Applied	2.50	2.46	2.50	2.50	2.49
	Thermodynamics-	Attained	Attained	Attained	Attained	Attained
BTMEC603	Ш					
BTMEC604B	IC Engines	2.89	2.99	2.77	2.66	2.83
		Attained	Attained	Attained	Attained	Attained
	Renewable	2.82	2.92	2.89	2.94	2.89
BTMEC605C	Energy Sources	Attained	Attained	Attained	Attained	Attained
BTMEC606B	Solar Energy	2.96	2.97	2.96	2.94	2.96
		Attained	Attained	Attained	Attained	Attained
	Metrology and	2.39	2.41	2.39	2.43	2.41
	Quality Control	Attained	Attained	Attained	Attained	Attained
BTMEL607	Lab					
	Machine Design	2.98	2.98	2.98	2.94	2.97
BTMEL608	Practice-II	Attained	Attained	Attained	Attained	Attained
BTMEL609	IC Engine Lab	2.40	2.84	2.85	2.84	2.73
DIMELOU	10 21181110 2000	Attained	Attained	Attained	Attained	Attained
	Refrigeration and	2.40	2.84	2.37	2.36	2.49
	Air Conditioning	Attained	Attained	Attained	Attained	Attained
BTMEL610	Lab					
	Technical Project	2.40	2.84	2.38	2.36	2.50
	for Community	Attained	Attained	Attained	Attained	Attained
BTMEM611	Services					
BTech Set CO at	tainment Target	2.1	2.1	2.1	2.1	2.1
BTMEC701	Mechatronics	2.93	2.93	2.97	2.61	2.86
		Attained	Attained	Attained	Attained	Attained
BTMEC702	CAD/CAM	2.91	2.88	2.85	2.84	2.87
		Attained	Attained	Attained	Attained	Attained
	Manufacturing	2.87	2.88	2.65	2.58	2.75
BTMEC703	Processes - III	Attained	Attained	Attained	Attained	Attained
	Industrial	2.99	2.95	2.99	2.99	2.98
	Engineering and	Attained	Attained	Attained	Attained	Attained
BTMEC704B	Management					
BTMEC705C	Wind Energy	2.88	2.85	2.87	2.84	2.86
		Attained	Attained	Attained	Attained	Attained
	Manufacturing	2.39	2.88	2.42	2.88	2.64
BTMEL706	Processes Lab - II	Attained	Attained	Attained	Attained	Attained
		2.39	2.32	2.36	2.80	2.47

BTMEL707	Mechatronics Lab	Attained	Attained	Attained	Attained	Attained
		2.41	2.85	2.38	2.38	2.50
BTMEL708	CAD/CAM Lab	Attained	Attained	Attained	Attained	Attained
		2.88	2.85	2.87	2.84	2.86
BTMES709	Seminar	Attained	Attained	Attained	Attained	Attained
	Field Training /Internship/Industr	2.92	2.92	2.92	2.44	2.80
BTMEF710	ial Training III	Attained	Attained	Attained	Attained	Attained
BTMEP711	Project Stage-I	2.81	2.93	2.94	2.85	2.88
BTMEP711	Project Stage-I	2.81 Attained	2.93 Attained	2.94 Attained	2.85 Attained	2.88 Attained
BTMEP711	Project Stage-I Fundamental of	2.81 Attained 2.88	2.93 Attained 2.80	2.94Attained2.77	2.85Attained2.69	2.88Attained2.79
BTMEP711 BTMEC801A	Project Stage-I Fundamental of automotive systems	2.81 Attained 2.88 Attained	2.93 Attained 2.80 Attained	2.94Attained2.77Attained	2.85Attained2.69Attained	2.88 Attained 2.79 Attained
BTMEP711 BTMEC801A	Project Stage-I Fundamental of automotive systems Non-Conventional	2.81 Attained 2.88 Attained 2.80	2.93Attained2.80Attained2.76	2.94Attained2.77Attained2.85	2.85Attained2.69Attained2.85	2.88 Attained 2.79 Attained 2.81
BTMEC801A BTMEC802F	Project Stage-I Fundamental of automotive systems Non-Conventional Energy Resourses	2.81 Attained 2.88 Attained 2.80 Attained	2.93Attained2.80Attained2.76Attained	2.94 Attained 2.77 Attained 2.85 Attained	2.85 Attained 2.69 Attained 2.85 2.85 Attained	2.88 Attained 2.79 Attained 2.81 Attained
BTMEP711 BTMEC801A BTMEC802F	Project Stage-I Fundamental of automotive systems Non-Conventional Energy Resourses	2.81 Attained 2.88 Attained 2.80 Attained 2.57	2.93 Attained 2.80 Attained 2.76 Attained 2.06	2.94 Attained 2.77 Attained 2.85 Attained 2.07	2.85Attained2.69Attained2.85Attained2.06	2.88 Attained 2.79 Attained 2.81 Attained 2.19
3.3 Attainment of Program Outcomes and Program Specific Outcomes (50)

3.3.1 Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)

(Describe the assessment to ols and process esused to gather the data upon which the

evaluation of each of the Program Outcomes and Program Specific Outcomes is based indicating the frequency with which these processes are carried out. Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained and document the attainment levels)

List of PO and PSO Assessment Tools:

Assessment tools are categorized into two types for Program Outcomes (POs), Program Specific Outcomes (PSOs).

- 5. Direct Assessment Method– Through CO attainment in relevant courses.
- 6. Indirect Assessment Method Employer Feedback, Alumni feedback, Program Exit Survey.

Direct Assessment methods:

CO attainment of course shows knowledge and skills obtained by students from respective courses derived from their performance in the continuous assessment, unit tests, online examinations, in-semester examinations, end-semester examinations, reviews, assignments etc. These methods provide strong evidence of student learning.

Indirect Assessment methods:

Surveys of students are taken to know their learning. Feedback of various stake holders like employer, alumni etc is taken to know the capabilities and necessary improvements.

For e.g.

Program exit Feedback: To evaluate the success of program in providing students with opportunities to achieve the POs and PSOs every year. After completion of program students are able evaluate easily so here given 40% weightage.

Alumni Feedback: To evaluate the success of program in providing alumni with opportunities to achieve the POs and PSOs every year and given 30% weightage.

Employer Feedback: To provide information about our graduate's skills and capability and given 30 % weightage.

PO/PSO Indirect Attainment = 0.4 * Program exit Feedback + 0.3 * Alumni Feedback + 0.3 *

Employer Feedback

Process for Evaluation and Assessment of POs & PSOs

> The activity, questionaries and frequency of feedback is defined by the Program for POs and

PSOs attainment through in direct tools.

The CO-PO and PSO mapping and CO attainment is considered as reference for PO and PSO attainment as a part of direct tool. Here sums weighted formula is used i.e., CO w. r. t. PO attainment = (CO1 attainment* CO-PO and PSO mapping) +

(CO1 attainment* CO-PO and PSO mapping) +

(CO1 attainment* CO-PO and PSO mapping) +

(CO1 attainment* CO-PO and PSO mapping)

Sum of mapping level

The same process is followed to calculate PSO attainment.

PO and PSO attainment are calculated by considering 80% weightage to direct assessment and 20% weightage to indirect assessment through surveys as shown in following figure

PO/PSO Attainment = 0.8 * Direct Attainment + 0.2 * Indirect Attainment



Fig 3 Process of defining PO/PSO Attainment

Direct Assessment Tools:

Continuous Assessment Test1[CA1]
Mid Semester Examination [MSE]
Continuous Assessment Test 2[CA2]
End Semester Examination [ESE]
Lab Continuous Assessment Test 1
Lab Continuous Assessment Test 2

Indirect Assessment Tools:

Program End Survey
Employer Feedback
Examiner Feedback

3.3.2 Provide results of evaluation of each PO&PSO

(40)

Program shall set Program Outcome attainment levels for all POs & PSOs.

(The attainment levels by direct (student performance) and indirect (surveys) are to be presented through Program level Course–PO & PSO matrix as indicated).

			amm	ciit.								
Course Name & Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Engineering Mathematics – I	2.93	2.94	2.95	2.95		2.95					2.93	2.94
Communication Skills	2.93				2.93	2.92		2.93		2.94		2.93
Engineering Physics	2.94	2.95	2.95	2.95		2.94	2.94					2.94
Engineering Graphics	2.95	2.95	2.95	2.95	2.95					2.95		2.95
Basic Civil Engineering	2.94	2.96	2.93	2.94		2.94		2.93		2.93	2.94	
Energy and Environment Engineering	2.94	2.95	2.94	2.94		2.95	2.94	2.94		2.94	2.94	
Communication Skills Lab	2.77				2.78	2.97		2.97		2.67		2.68
Engineering Physics Lab	2.94	2.93	2.97	2.96		2.94	2.95		2.93			2.92
Engineering Graphics Lab	2.92	2.92	2.96	2.95	2.97				2.93	2.95		2.94
Basic Civil Engineering Lab	2.94	2.92	2.94	2.92		2.94	2.92	2.94		2.94	2.92	
Workshop Practices	2.97				2.81				2.73	2.89		
Engineering Mathematics- II	2.93	2.94	2.96	2.95		2.93					2.93	2.94
Engineering Mechanics	2.94	2.94	2.94			2.94			2.94			
Engineering Chemistry	2.94	2.95				2.95	2.94		2.95			

PO Attainment:	

Basic Electrical Engineering	2.93					2.94	2.93					
Basic Electronics Engineering	2.94					2.94	2.94					
Basic Computer Programming	2.95	2.96	2.96						2.97	2.95		
Engineering Mechanics Laboratory	2.94	2.93	2.94			2.92	2.94		2.95	2.94		
Engineering Chemistry Laboratory	2.92	2.91				2.91	2.91		2.91			
Basic Electrical Engineering Laboratory	2.94					2.94	2.94					
Basic Electronics Engineering Laboratory	2.94					2.94	2.94					
Basic Computer Programming Laboratory	2.94	2.95	2.93						2.93	2.94		
Engineering Mathematics-III	2.64	2.91	2.79									
Materials Science and Metallurgy	2.86	2.86	2.86	2.84	2.85	2.82	2.85	2.88	2.84	2.85		
Fluid Mechanics	2.75	2.75	1.59	1.84	2.72		2.07		1.75	1.82	1.83	1.15
Machine Drawing and CAD	2.60	2.62	2.57	2.50	2.50	2.52	2.51	2.51	2.51	2.51		
Thermodynamics	2.75	2.75	1.59	1.84	2.72		2.07		1.75	1.82	1.83	1.15
Basic Human Rights	1.33	1.40	0.67	0.49	1.11	0.98	0.42		0.98	0.25	0.98	2.74
Materials Science and Metallurgy Lab	2.99	3.00	2.99		3.00	3.00	2.98		3.00	3.00		3.00
Fluid Mechanics Lab	2.55	2.33	2.49		2.49	2.01	2.81		2.49	2.49		2.25
Machine Drawing and CAD Lab	2.50	1.00	1.00	0.00	1.00	0.00	0.00	0.00	2.00	1.00	0.00	1.25

Field Training /Internship/Industrial Training I	2.80	2.83	2.93	2.93	2.79	2.93	2.93	2.93	2.92	2.80	2.92	2.75
Manufacturing Processes - I	1.75	1.50	1.00			1.00	1.00			1.00		1.00
Theory of Machines-I	2.63	2.62	2.63	2.61								2.64
Strength of Materials	2.83	2.92	2.93	2.93								2.82
Numerical Methods in Mechanical Engineering	2.81	2.81		2.81	2.81							
Product Design Engineering – I	2.63	2.62	2.63	2.61								2.64
Interpersonal Communication Skill& Self Development								2.63	2.65	2.55	2.67	2.63
Manufacturing Processes Lab – I	2.69	2.60	2.68			2.68	2.68			2.68		2.68
Theory of Machines Lab- I	2.58	2.51	2.67	2.59	2.96				2.58	2.58		2.47
Strength of Materials Lab	2.76	2.73	2.71	2.76		2.93		2.91				
Numerical Methods Lab	2.68	2.68		2.68	2.68							
Heat Transfer	2.97	2.96	2.97	2.98		2.98	2.98	2.98		2.98		2.97
Applied Thermodynamics – I	2.96	2.96	2.96	2.95	2.95	2.95	2.95				2.97	2.95
Machine Design – I	2.95	2.95	2.95	2.94	2.95	2.95	2.94				2.97	2.94
Theory of Machines- II	2.95	2.95	2.94	2.95	2.95	2.95	2.95	2.96		2.96		2.95
Metrology and Quality Control	1.44	1.44	1.44	1.43	1.44						1.44	1.44
Product Design Engineering - II	2.93	2.92	2.93	2.92	2.93	2.92	2.93	2.93	2.93	2.93	2.92	2.93
Automobile Engineering	2.82		2.68	2.68	2.68		2.80	2.95	2.84	2.95		2.78

AGCE, Satara

Heat Transfer Lab	2.73	2.62	2.75		2.46	2.94	2.78		2.46	2.46		2.70
Applied Thermodynamics Lab	2.96	2.96	2.96	2.96	2.95	2.95	2.95		2.96	2.96	2.95	2.96
Machine Design Practice- I	2.96	2.96	2.96	2.95		2.96	2.95	2.96		2.96		2.96
Theory of Machines Lab- II	2.93	2.92	2.93	2.92	2.93	2.92	2.92	2.93	2.93	2.93	2.92	2.93
Field Training /Internship/Industrial Training II	2.29		2.38			2.36	1.59		2.11	2.15		2.64
Manufacturing Processes- II	2.71	2.71	2.69	2.62	2.72		2.79	2.79				2.71
Machine Design-II	2.00	1.50	2.00	2.00		1.00		1.00		1.00		1.00
Applied Thermodynamics- II	2.49	2.49	2.49			2.50	2.50		2.50			2.49
IC Engines	2.47	2.02	1.68	1.81	1.31	1.89	1.89	0.84			0.77	0.82
Renewable Energy Sources	2.79	2.79	2.80	2.70	2.83		2.93	2.93				2.79
Solar Energy	2.96	2.96	2.94	2.94		2.96		2.96		2.96		2.95
Metrology and Quality Control Lab	2.41	2.41	2.39		2.41		2.41					2.41
Machine Design Practice-II	2.96	2.97	2.94	2.94		2.97		2.97		2.97		2.97
IC Engine Lab	1.78	1.90	0.91			0.71	0.71		1.18	0.91		0.91
Refrigeration and Air Conditioning Lab	0.79	1.82	1.50				2.36		2.49	2.06		1.66
Technical Project for Community Services	0.79	0.87	1.46				2.36		2.50	2.06		1.66
Mechatronics	2.87	2.87	2.87	2.80	2.97		2.93	2.93				2.87
CAD/CAM	2.84	2.80	2.85	2.71	2.83		2.93	2.93				2.80
Manufacturing Processes - III	2.75	2.75	2.74	2.65	2.76		2.87	2.87				2.75

Industrial Engineering	2.98	2.95	2.98		2.99	2.99	2.97		2.95	2.97		2.97	
and Management												,	
Wind Energy	2.86	2.86	1.43			0.95	0.95		0.95	1.20		0.48	
Manufacturing Processes Lab - II	2.66	2.65	2.70			2.64	2.64		2.64	2.64		2.64	
Mechatronics Lab	2.27	2.34	1.21			0.82	0.82		0.82	0.86			
CAD/CAM Lab	2.31	2.62	1.27			0.83	0.83		0.83	0.79			
Seminar	2.86	2.86	1.43			0.95	0.95		0.95	1.20		0.48	
Field Training /Internship/Industrial Training III	2.87	2.92	2.83		2.44	2.92	2.92		2.60	2.44		2.92	
Project Stage-I	2.59	2.93		2.59	2.59	2.93	2.93	2.59	2.59	2.88	2.88	2.88	
Fundamental of automotive systems	2.33	2.31	1.53	1.83		1.38	0.93	0.93		0.93		0.93	
Non-Conventional Energy Resourses	2.81	1.64	1.64	1.38		2.81	2.81	1.17		1.40	1.87	1.41	
Project Stage-II	1.71	2.06				0.69	0.69		2.07	2.06		2.06	
Attainment	2.66	2.61	2.45	2.55	2.62	2.44	2.39	2.52	2.38	2.32	2.33	2.37	

PSO Attainment:

Class	Code	Course	PSO1	PSO2
	MATH101	Engineering Mathematics – I	2.94	2.93
	HS102	Communication Skills	2.93	2.92
FY- SEMI	PHY103	Engineering Physics	2.94	2.94
	ME104	Engineering Graphics	2.95	
	CV105	Basic Civil Engineering	2.94	2.93
	CHE106	Energy and Environment Engineering	2.95	2.94
	HS102L	Communication Skills Lab	2.85	2.97
	PHY103L	Engineering Physics Lab	2.95	2.92
	ME104L	Engineering Graphics Lab	2.92	
	CV105L	Basic Civil Engineering Lab	2.92	2.93
	WS100L	Workshop Practices	2.81	2.78
	MATH201	Engineering Mathematics- II	2.94	2.93
	ME202	Engineering Mechanics	2.94	2.94
FY- SFMII	CHE203	Engineering Chemistry	2.94	
SEIVIII	EE204	Basic Electrical Engineering		
	EXE205	Basic Electronics Engineering		

		1		
		Basic Computer		
	ICT206	Programming		
		Engineering Mechanics		
	ME202I	Laboratory	2.94	2.92
	WIE202L	Laboratory		
		Engineering Chemistry	2.01	
	CHM203L	Laboratory	2.91	
		5		
		Basic Electrical		
	EE204L	Engineering Laboratory		
		Basic Electronics		
	EXE205L	Engineering Laboratory		
		Programming		
	ICT206L	Laboratory		
		Engineering	• • •	
	BTBSC301	Mathematics-III	2.85	
		Materials Science and	2 82	2 87
	BTMEC302	Metallurgy		,
SY-	BTMEC303	Fluid Mechanics	2.75	0.92
SEMIII				
		Machine Drawing and	2 73	2 49
	BTMEC304	CAD	2.75	2.19
	BTMEC305	Thermodynamics	2.75	0.92
	BTHM3401	Basic Human Rights	2 74	1.82
	D TIMUS TOT	Dusio Human Hights	2.7 :	1.02
		Materials Science and	2 99	3.00
	BTMEL307	Metallurgy Lab	2.77	5.00
	BTMEL 308	Fluid Mechanics Lab	2 25	2.25
	211111111111111111		2.20	2.25
		Machine Drawing and	1 75	1 25
	BTMEL309	CAD Lab	1.75	1.43
		Field Training		
		/Internshin/Industrial	2.84	2 93
	BTMEF310	Training I	2.04	2.75
	511121510			
SV-		Manufacturing	3 00	1.00
SY- SEM	BTMEC401	Processes - I	5.00	1.00
IV	BTMEC402	Theory of Machines I	261	264
	DIMEC402	Theory of Wiachines-1	∠.04	∠.04

	BTMEC403	Strength of Materials	2.87	2.88
	BTMEC404	Numerical Methods in Mechanical Engineering	2.80	2.89
	BTID405	Product Design Engineering – I	2.64	2.64
	BTHM3402	Interpersonal Communication Skill& Self Development	2.63	2.63
	BTMEL407	Manufacturing Processes Lab – I	2.68	2.68
	BTMEL408	Theory of Machines Lab- I	2.47	2.47
	BTMEL409	Strength of Materials Lab		2.78
	BTMEL410	Numerical Methods Lab	2.73	2.61
	BTMEC501	Heat Transfer	2.99	2.97
	BTMEC502	Applied Thermodynamics – I	2.95	2.97
	BTMEC503	Machine Design – I	2.95	2.95
	BTMEC504	Theory of Machines- II	2.96	2.94
	BTMEC505	Metrology and Quality Control	1.44	1.44
TY- SEM V	BTID506	Product Design Engineering - II	2.93	2.92
	BTMEC506A	Automobile Engineering	2.77	2.80
-	BTMEL507	Heat Transfer Lab	2.70	2.70
	BTMEL508	Applied Thermodynamics Lab	2.96	2.95
	BTMEL509	Machine Design Practice- I	2.95	2.97

	BTMEL510	Theory of Machines Lab- II	2.93	2.92			
	BTMEF511	Field Training /Internship/Industrial Training II	2.23	1.57			
	BTMEC601	Manufacturing Processes- II	2.71	2.71			
	BTMEC602	Machine Design-II	1.50	1.50			
	BTMEC603	Applied Thermodynamics- II					
	BTMEC604B	IC Engines	2.47	0.82			
	BTMEC605C	2.79	2.79				
TY- SEM	BTMEC606B	Solar Energy	2.95	2.97			
VI	BTMEL607	Metrology and Quality BTMEL607 Control Lab					
	BTMEL608	Machine Design Practice-II	2.95	2.98			
	BTMEL609	IC Engine Lab	2.73	1.35			
	BTMEL610	2.49	0.87				
	BTMEM611	Technical Project for Community Services	2.50	0.87			
	BTMEC701	Mechatronics	2.87	2.87			
BTech-	BTMEC702	CAD/CAM	2.80	2.80			
SEM VII	BTMEC703	Manufacturing Processes - III	2.75	2.75			
	BTMEC704B	Industrial Engineering and Management	2.99	2.97			
	BTMEC705C	Wind Energy	2.86	1.67			
	BTMEL706	Manufacturing Processes Lab - II	2.64	2.64			

	Averag	2.71	2.36	
	BTMEP803	Project Stage-II		
SEM VIII	BTMEC802F	Non-Conventional Energy Resourses	2.35	1.39
BTech-	BTMEC801A	Fundamental of automotive systems	1.38	1.40
	BTMEP711	Project Stage-I		
	BTMEF710	Field Training /Internship/Industrial Training III	2.68	2.68
	BTMES709	Seminar	2.86	1.67
	BTMEL708	CAD/CAM Lab	2.50	0.44
	BTMEL707	Mechatronics Lab	2.47	0.39

PO and PSO Attainment

Cours e	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1 1	PO12	PSO 1	PSO 2
Attain ment	2.65	2.54	2.53	2.45	2.54	2.45	2.26	2.35	2.32	2.36	2.39	2.41	2.72	2.37
Direct Attain ment	2.66	2.61	2.45	2.55	2.62	2.44	2.39	2.52	2.38	2.32	2.33	2.37	2.71	2.36
Indire ct Attain ment	2.60	2.24	2.84	2.06	2.26	2.50	1.74	1.68	2.06	2.52	2.62	2.56	2.76	2.40

CRITERION	Students' Performance	150
04		

CRITERION4	Students' Performance	150
------------	-----------------------	-----

4. STUDENTS ' PERFORMANCE (150)

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY (2022-23)	CAYm1 (2021-22)	CAY <i>m</i> 2 (2020-21)	CAYm3 (2019-20)	CAYm4 (2018-19)	CAYm5 (2017-18)	CAYm6 (2016-17)
Sanctioned intake of the program (N)	90	120	120	120	120	120	90
Total number of students admitted in first year <i>minus</i> number of students migrated to other programs/institutions plus no. of students migrated to this program (N1)	28	21	37	22	17	37	28
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	37	103	110	107	102	69
Separate division students, if applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the Program (N1 + N2 + N3)	28	58	140	132	124	139	97

TableB.4a

CAY-Current Academic Year

CAYm1-Current Academic Year minus1 = Current Assessment Year

CAYm2- Current Academic Year minus2 = Current Assessment Year minus1

LYG-Last Year Graduate minus 1

LYGm 1– Last Year Graduate minus 1

LYGm 2– Last Year Graduate minus

Year of entry	N1+N2+N3 (As defined	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog+ without Backlog]					
	above)	I Year	II Year	III Year	IV Year		
CAY(2022-23)	28						
CAY(2021-22)	58	10					
CAY <i>m</i> 1(2020- 21)	140	20	96				
CAY <i>m</i> 2(2019- 2020)	132	17	115	100	65		
CAY <i>m3</i> (2018- 2019)	124	17	120	105	101		
CAYm4 (LYG) (2017-18)	139	34	104	102	95		
CAYm5 (LYGm1) (2016-17)	97	13	53	49	49		

Table no 4.2

Year of entry	N1+N2+N3 (As defined above)	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)				
		I Year	II Year	III Year	IV Year	
CAY(2022-23)	28	-				
CAYm1(2021-22)	58	03	-			
CAY <i>m</i> 2(2020-21)	140	12	52	-		
CAY <i>m</i> 3(2019-2020)	132	17	92	66	64	
CAY <i>m4</i> (2018-2019)	124	17	99	79	79	
CAY <i>m5</i> (LYG)(2017- 18)	139	08	36	35	35	
CAY <i>m6</i> (LYG <i>m</i> 1)(2016-17)	97	03	17	13	13	

Table no 4.3

TableB.4c

4.1. Enrolment Ratio (20) Enrolment Ratio=N1/N

	N from table B.4a	N1 from table B. 4a	Enrollment ratio			
CAY(2022-23)	90	28	31.11			
CAYm1(2021-22)	120	21	17.5			
CAYm2(2020-21)	120	37	30.83			
Average Enrollment=(ER1+ER2+ER3)/3=(31.11+17.5+30.38)/3=26.48						

Item	
(StudentsenrolledattheFirstYearLevelonaveragebasisduringthepreviousthreeacade	Marks
micyearsstartingfromcurrentacademicyear)	

>=90%studentsenrolled	20
>=80%studentsenrolled	18
>=70%studentsenrolled	16
>=60%studentsenrolled	14
>=50%studentsenrolled	12
Otherwise	٥

TableB.4.1

4.2. Success Rate in the stipulated period of the program (40)

4.2.1. Success rate without backlogs in any semester/year of study (25)

SI=(Number of students who have graduated from the program without backlog)/(Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI=Mean of Success Index (SI) for past three batches

Success rate without backlogs in any year of study =25×Average SI=25*0.45=11.25

ltem	Last Year of Graduate, LYG (2022-2023)	Last Year of Graduate, minus1,LYG1 (2021-22)	Last Year of Graduate, minus2,LYG2 (2020-21)	Last Year of Graduate minus3,LYG <i>m</i> 3 (2019-20)
Number of students admitted in the corresponding First Year+ admitted in 2 nd year via lateral entry and separate division, if applicable (x)	132	124	139	97
Number of students who have graduated without backlogs in the stipulated period(y)	64	79	36	13
Success Index(SI)=(y/x)	0.48	0.63	0.25	0.13
Average SI (SI1+SI2+SI3)/3	0.45	11.25		

TableB.4.2.1

4.2.2 Success rate in stipulated period of study (15)

SI= (Number of students who graduated from the program in the stipulated period of course duration)/(Number of students admitted in the first year of that batch and actual admitted in 2^{nd} year via lateral entry and separate division, if applicable)

Average SI=mean of Success Index (SI) for past three batches

Success rate=15×AverageSI=15 × 0.66= 9.5

NBA e-SAR 2022-23

ltem	Last Year of Graduate, LYG (2022-2023)	Last Year of Graduate, minus 1, LYGm1 (2021-2022)	Last Year of Graduate minus 2, LYGm2 (2020-21)	Last Year of Graduate minus 3, LYGm3 (2019-2020)
Numberofstudentsadmittedinthecorres pondingFirstYear+admittedin2ndyearv ialateralentryandseparatedivision,ifapp licable X	132	124	139	97
Number of students who have graduated in the stipulated period Y	65	101	95	49
Success Index(SI)=(y/x)	0.49	0.81	0.68	0.50
Average Success Index (SI1+SI2+SI3)/3	0.66	9.9		

TableB.4.2.2

4.3. Academic Performance in Third Year (15)

Academic Performance=1.5*Average API (Academic Performance Index) (11.30)

API=((Mean of 3rd Year Grade Point Average of all successful Students on a 10 point scale)or(Mean of the percentage of marks of all successful students in Third Year/10))x(number of successful students/number of students appeared in the examination)

Successful students are	those who are	permitted to	proceed to the final year.
2		1	1 5 5

Academic Performance	CAYm1 (2021-22)	CAYm2 (2020-21)	CAY <i>m3</i> (2019-20)
Mean of CGPA or Mean Percentage of all successful students(X)	8.54	8.66	7.81
Total no. of successful students (Y)	100	105	101
Total no. of students appeared in the examination(Z)	115	120	104
API=x*(Y/Z)=	7.46	7.57	7.58
Average API =(AP1+AP2+AP3)/3	7.53		

TableB.4.3

4.4 Academic Performance in Second Year (15)

Academic Performance Level=1.5*Average API (Academic Performance Index) 10.60

API= ((Mean of 2nd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/10))x(number of successful students/number of students appeared in the examination)

Successful students are those who are permitted to proceed to the Third year.

Academic Performance	CAY (2021- 22)	CAYm1 (2020- 21)	CAY <i>m2</i> (2019-20)
Mean of CGPA or Mean Percentage of all successful students(X)	7.84	8.59	7.53
Total no. of successful students(Y)	120	115	96
Total no. of students appeared in the examination(Z)	124	127	123
API=X*(Y/Z)	7.58	7.77	5.87
Average API=(AP1+AP2+AP3)/3		7.07	

TableB.4.4

4.5 Placement, Higher Studies and Entrepreneurship (32.80/40) =32.80

Assessment Points =40×averageplacement	
--	--

Item	CAY (2021-22)	CAY <i>m1</i> (2020-21)	CAY <i>m2</i> (2019-20)
Total No. of Final Year Students(N)	<mark>101</mark>	<mark>95</mark>	<mark>49</mark>
No. of students placed in companies or Government Sector(x)	83	73	38
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.)(y)	5	1	1
No. of students turned entrepreneur in engineering/technology(z)	2	1	0
x+y+z=	90	75	39
Placement Index:(x+y+z)/N	0.89	0.78	0.79
Average placement=(P1+P2+P3)/3		0.82	

TableB.4.5s

4.5 A Provide the placement data in the below mentioned form at with the

name of the program and the assessment year:

SR. NO	STUDENT NAME	ENROLLMENT NO.	EMPLOYEE NAME	APPOINTMENT NO
1	1965451612003	MADHAVE ROHIT KAILAS	Maharashtra Scooters LTD.Satara	TPC/1612/2022/003
2	1965451612004	YADAV OMKAR JAYANT	Shambhu Industries	TPC/1612/2022/004
3	1965451612007	YADAV ANIKET ANIL	Asia Tech Center, Pune	TPC/1612/2022/007
4	1965451612012	JAGADALE ANIKET RAJU	Shree Ganesh Industries, Satara	TPC/1612/2022/012
5	1965451612013	SHELAKE RUPESH SUNIL	Shree Mahalaxmi services, Pune	TPC/1612/2022/013
6	1965451612014	SHINDE SANKET HEMANT	Divide by zero	TPC/1612/2022/014
7	1965451612015	GODASE MANOJ PANDURANG	SATARA ENGINEERING , PVT. LTD. SATARA	TPC/1612/2022/015
8	1965451612017	PAWAR PRAMOD BHIKU	KPIT Technologies Limited	TPC/1612/2022/017
9	1965451612018	ANIT BALWANT MORE	Align Engineering	TPC/1612/2022/018
10	1965451612020	LAD PRITHVIRAJ MASU	Sarvgram	TPC/1612/2022/020
11	1965451612021	LEMBHE AKASH AVINASH	Test Yantra Software Solutions, pune	TPC/1612/2022/021
12	1965451612025	SURYAWANSHI JAYRAM DIPAK	Cooper Corporation Pvt. Ltd	TPC/1612/2022/025
13	1965451612027	MAYUR DILIP MONDE	Sutra Systems India PVT LTD, Pune	TPC/1612/2022/027
14	1965451612028	DESAI PAVAN VIJAYKUMAR	BVG India Ltd, Satara	TPC/1612/2022/028

		BHOITE DEEPAK	Cooper Corporation	
15	1965451612030	AVINASH	PVT.LTD.Satara	TPC/1612/2022/030
16	1965451612032	JADHAV SUSHANT SAMADHAN	Shri Ganesh industries	TPC/1612/2022/032
17	1965451612033	JADHAV ROHIT PRADIP	Align Engineering	TPC/1612/2022/033
18	1965451612036	PRATIK SUDHAKAR SHINDE	Gs Peb civil works pvt. ltd.	TPC/1612/2022/036
19	1965451612037	KADAM OMKAR PRAVIN	AVM ELECTRICALS INDIA PVT. LTD	TPC/1612/2022/037
20	1965451612038	DUBAL NANDKUMAR SANJAY	Toshniwal Hyvac Pvt Ltd , Mumbai	TPC/1612/2022/038
21	1965451612040	LANKESHWAR ABHISHEK HANMANT	JJEPL,Satara	TPC/1612/2022/040
22	1965451612041	SHINDE PRAJWAL SUNIL	Prajwal Enterprises	TPC/1612/2022/041
23	1965451612043	BHASKAR ASHUTOSH SUBHASH	Orgatma Organic Science Pvt Ltd Satara	TPC/1612/2022/043
24	1965451612046	ATTAR AMAN AKBAR	Prajwal Enterprises	TPC/1612/2022/046
25	1965451612049	SHINDE PRATHMESH NIRAJ	Wipro	TPC/1612/2022/049
26	1965451612050	KHUSPE MAYUR SHANKAR	Cummins	TPC/1612/2022/050
27	1965451612051	SAWANT SHUBHAM RAJENDRA	Kinemach	TPC/1612/2022/051
28	1965451612052	JAGTAP GAURAV PRADIP	York Transport Equipments Pvt Ltd	TPC/1612/2022/052
29	1965451612054	PAWAR VAIBHAV ANANDA	Align Engineering	TPC/1612/2022/054
30	1965451612056	KADAM SWAPNIL MOHAN	PR Engineering Satara	TPC/1612/2022/056
31	1965451612057	PAWAR ASHISH BHIKU	SKF India Limited,Pune	TPC/1612/2022/057

32	1965451612059	ADHISHRI SHIVAJI PAWAR	Shri Sai Civil And Techno Engg Pvt Ltd	TPC/1612/2022/059
33	1965451612060	PANDHARPATTE AJINKYA KALIDAS	Tri Tech Metals Pvt Ltd, Satara	TPC/1612/2022/060
34	1965451612061	MALI KISHOR KUMAR	Yashaswi	TPC/1612/2022/061
35	1965451612063	KADAM CHANDRASEN BHARAT	ACPL	TPC/1612/2022/063
36	1965451612066	ASAWALE ROHIT GHANASHAM	Forbes Marshal Pvt Ltd, Pune	TPC/1612/2022/066
37	1965451612071	SURYAWANSHI PRATIKSHA RAVINDRA	Mahekar Engineers	TPC/1612/2022/071
38	1965451612072	CHAVAN SHWETA HANMANTRAO	Faurecia Interiors	TPC/1612/2022/072
39	1965451612073	KAMTHE SHRIRAM SHASHIKANT	Nilsan Engineering solutions	TPC/1612/2022/073
40	1965451612074	PATIL ROHIT RAVINDRA	Pan Gulf Technologices	TPC/1612/2022/074
41	1965451612077	SHEWALE MAYURI BHIMRAO	Delfingen	TPC/1612/2022/077
42	1965451612081	MOHITE VAIBHAV VASANT	Prajwal Enterprises	TPC/1612/2022/081
43	1965451612091	PAWAR VAIBHAV RAJARAM	PR Engineering Satara	TPC/1612/2022/091
44	1965451612092	KANASE RAVIRAJ DADASAHEB	Shri Ganesh Industries	TPC/1612/2022/092
45	1965451612094	OMKAR ANIL DHOLE	Bharat Forge	TPC/1612/2022/094
46	1965451612099	DESHMUKH ROHAN PANDURANG	Ajinkyatara Automotives Pvt .Ltd	TPC/1612/2022/099
47	1965451612103	SHEWALE NIKHIL VILAS	Renuka Enterprises	TPC/1612/2022/103
48	1965451612109	BHILARE OMKAR LAXMAN	Prajwal Enterprises	TPC/1612/2022/109

1	1055151512140		AVM ELECTRICALS INDIA	TDC /4 C4 2 /2022 /44 2
49	1965451612110	PAWAR SAGAR DILIP	PVT. LTD	TPC/1612/2022/110
50	1965451612111	JADHAV RUSHIKESH MAHADEV	Yashvantrao Technical And Training foundation	TPC/1612/2022/111
51	1965451612112	AHIRE AKSHAY ARUN	Auto choice	TPC/1612/2022/112
52	1965451612113	JAMBHALE AKSHAY MARUTI	Auto choice	TPC/1612/2022/113
53	1965451612114	DESAI RANJEET BHASKAR	Auto choice	TPC/1612/2022/114
54	1965451612116	SAWANT NIKITA NAMADEV	Universal Solution,Pune	TPC/1612/2022/116
55	1965451612118	THORAT VAIBHAV RAVINDRA	Profound Edutech, Pune	TPC/1612/2022/118
56	1965451612120	KITTUR KEDAR SAHADEV	Forbes Marshal Pvt Ltd, Pune	TPC/1612/2022/120
57	1965451612121	SALUNKHE NILESH SUNIL	Renuka Enterprises	TPC/1612/2022/212
58	PRN:51654520181161210096	KADAM ABHIJEET DEEPAK	AVM ENGINEERING	TPC/1612/2022/0096
59	PRN:51654520181161210098	DHANE NIKHIL SUNIL	Ajinkyatara Automotives Pvt .Ltd	TPC/1612/2022/0098
60	PRN:51654520181161210099	POWAR ASHUTOSH ANIL	Renuka Enterprises	TPC/1612/2022/0099
61	PRN:51654520181161210109	KUMBHAR GANESH SURESH	Shri Jagadamba Engineering Works,Satara	TPC/1612/2022/0109
62	PRN:51654520181161210110	BHOSALE PRATHAMESH PRAMOD	Shriann Plastiv Pvt. Ltd.	TPC/1612/2022/0110
63	PRN:51654520181161210111	PAWAR RAJESH RAMCHANDRA	Shambhu Industries	TPC/1612/2022/0111
64	1965451612005	JADHAV SURAJ BAJIRAO	Om Enterprises,Satara	TPC/1612/2022/005
65	1965451612011	SOURAV TIKADAR	ATHRAV ENGINEERING	TPC/1612/2022/011

66	1965451612023	PATIL SHUBHAM SANJAY	Zerg Corporation Satara	TPC/1612/2022/023
67	1965451612034	TAVARE SHAMBHURAJ KUBER	Zerg Corporation Satara	TPC/1612/2022/034
68	1965451612039	SUTAR JYOTI DATTATRAYA	ATHRAV ENGINEERING	TPC/1612/2022/039
69	1965451612042	KANASE AKASH RAJENDRA	Shambhu Industries	TPC/1612/2022/042
70	1965451612044	JADHAV OMKAR PRAKASH	Gholap Engineering Works	TPC/1612/2022/044
71	1965451612053	SHINDE KUNAL NARAYAN	Shambhu Industries	TPC/1612/2022/053
72	1965451612055	CHAVAN SHUBHAM SANJAY	Gholap Engineering Works	TPC/1612/2022/055
73	1965451612064	SURYAWANSHI HRUSHIKESH PRAKASH	Gholap Engineering Works	TPC/1612/2022/064
74	1965451612090	MUJAWAR NAYUM AJIM	Om Enterprises, Satara	TPC/1612/2022/090
75	1965451612093	SHINDE VEDANT VIKAS	Renuka Enterprises	TPC/1612/2022/093
76	1965451612098	PAWAR ABHIJIT PRADEEP	Zerg Corporation Satara	TPC/1612/2022/098
77	PRN:51654520181161210103	BHOSALE NIKHIL BHAUSO	Om Enterprises,Satara	TPC/1612/2022/0103
78	PRN:51654520181161210104	GHORPADE HARSHADA RAMDAS	Zerg Corporation Satara	TPC/1612/2022/0104
79	PRN:51654520181161210105	JAGTAP RUSHIKESH MADHUKAR	Gholap Engineering Works	TPC/1612/2022/0105
80	PRN:51654520181161210107	GAIKWAD ANIKET SACHIN	Om Enterprises,Satara	TPC/1612/2022/0107
81	PRN:51654520181161210108	PANASKAR PRATIK CHANDRAKANT	ATHRAV ENGINEERING	TPC/1612/2022/0108
82	PRN:51654520181161210112	DESAI MUSKAN NISAR	Renuka Enterprises	TPC/1612/2022/0112

83	PRN:51654520181161210113	CHAVAN RUSHIKESH DASHARATH	Gholap Engineering Works	TPC/1612/2022/0113
84	1965451612048	ASMITA ANANDA BHOSALE	International university of Applied Science, Berlin	Higher Studies
85	1965451612105	BHOSALE INDRAJEET LAXMAN	LLB	Higher Studies
86	1965451612106	JADHAV SWAPNIL SITARAM	Centre For Development Of Advanced Computing Admission To PG Diploma Course September 2022	Higher Studies
87	PRN:51654520181161210102	GHADAGE KISHOR LAXMAN	International university of Applied Science, Berlin	Higher Studies
88	PRN:51654520181161210106	PUSTAKE UTKARSH RAVINDRA	International University of Applied Sciences	Higher Studies
89	1965451612089	POL YOGESH SHIVAJI	Food Industries	ENTERPRENATURE
90	1965451612095	GHORPADE AKSHAY GULAB	Om Bhawanimata Motors and Car Care	ENTERPRENATURE

PLACEMENT 2020-2021

SR. NO	STUDENT NAME	ENROLLMENT NO.	EMPLOYEE NAME	APPOINTMENT NO
1	PRN:51654520171161210001	ABHISHEK SHANKARRAO KATKAR	Shambhu Industeies	TPC/1612/2021/001
2	PRN:51654520171161210002	ANIL SHIVAJI HASABE	DESCOSOLUTIONS PVT LTD	TPC/1612/2021/002
3	PRN:51654520171161210004	SHINDE INDRAJIT VILAS	CEE Engineering Pvt ltd Pune	TPC/1612/2021/004
4	PRN:51654520171161210005	SHRADDHA YASHWANT BHOSALE	Infosys	TPC/1612/2021/005
5	PRN:51654520171161210007	SURAJ ANIL SUTAR	OM EMTERPRISE, SATARA	TPC/1612/2021/007
6	PRN:51654520171161210010	NAGARGOJE KRISHANA POPAT	TBK India Private Limited	TPC/1612/2021/010
7	PRN:51654520171161210012	MULIK AKASH DIPAK	Zerg Corporation Satara	TPC/1612/2021/012
8	PRN:51654520171161210013	SHIRKE MAYUR NAMDEV	Auto Choice	TPC/1612/2021/013
9	PRN:51654520171161210014	SIDDHANT SANJAY WAJE	Ajinkyatara Automotives Pvt.Ltd.	TPC/1612/2021/014
10	PRN:51654520171161210015	KUMBHAR SIDDHESH DATTATRAYA	OM EMTERPRISE, SATARA	TPC/1612/2021/015
11	PRN:51654520171161210016	SUTAR SACHIN BASAVRAJ	Datametica Solutions Pvt Ltd	TPC/1612/2021/016
12	PRN:51654520171161210017	S MOHAMEDRAFEEQ M SADAKKATHULLA	Shriann Plastic Pvt.Ltd.	TPC/1612/2021/017
13	PRN:51654520171161210018	PATIL DHIRAJ SHAMRAO	OM EMTERPRISE, SATARA	TPC/1612/2021/018
14	PRN:51654520171161210020	BHOSALE ROHIT MOHAN	Precise Systems Satara	TPC/1612/2021/020
15	PRN:51654520171161210021	PADWAL SHUBHAM SHIVAJI	Atharva Engineering, Satara	TPC/1612/2021/021
16	PRN:51654520171161210022	AVINASH RAMESH MATRE	Pando Software Consultants, Noida	TPC/1612/2021/022

17	PRN:51654520171161210023	KADAM VAIBHAV SUBHASH	OM JAI ASSOCIATE	TPC/1612/2021/023
18	PRN:51654520171161210024	PATIL DIGVIJAY RAVINDRAKUMAR	TCS	TPC/1612/2021/024
19	PRN:51654520171161210027	ASAWALE SURAJ DNYANDEV	Ajinkyatara Automotives Pvt.Ltd.	TPC/1612/2021/027
20	PRN:51654520171161210030	AKSHATA BABANRAO SHEDGE	Precision Group, Pune	TPC/1612/2021/030
21	PRN:51654520171161210031	DAREKAR ANIKET AVINASH	PR Engineering Satara	TPC/1612/2021/031
22	PRN:51654520171161210035	RAJESH MANSING MORE	Shri Ganesh Industries	TPC/1612/2021/035
23	PRN:51654520171161210036	LONDHE RANJIT DEVANAND	Shriann Plastic Pvt.Ltd.	TPC/1612/2021/036
24	PRN:51654520181161210001	NIKAM AKASH SUNIL	Seinumero Nirman Pvt Ltd, Pune	TPC/1612/2021/0001
25	PRN:51654520181161210002	PATIL JEEVAN JAYWANT	Renuka Enterpriese	TPC/1612/2021/0002
26	PRN:51654520181161210004	JADHAV SHUBHAM KISAN	SLE TECHNOLOGY CONSULTING INDIA PRIVATE LIMITED	TPC/1612/2021/0004
27	PRN:51654520181161210007	GOGAWALE DHANRAJ LAXMAN	AVM Engineeering	TPC/1612/2021/0007
28	PRN:51654520181161210008	KANKEKAR YOGESH ASHOK	HNB	TPC/1612/2021/0008
29	PRN:51654520181161210010	KODAG SHUBHAM BABAN	Wipro	TPC/1612/2021/0010
30	PRN:51654520181161210014	CHAVAN AKASHAY MAHADEO	Shriann Plastic Pvt.Ltd.	TPC/1612/2021/0014
31	PRN:51654520181161210015	JADHAV GANESH MADHUKAR	Satara Engineering Works	TPC/1612/2021/0015
32	PRN:51654520181161210017	ASAWALE SHARAD PRAKASH	TCS	TPC/1612/2021/0017

33	PRN:51654520181161210018	CHAVAN PRATIK PRADIP	Shri Ganesh Industries	TPC/1612/2021/0018
34	PRN:51654520181161210020	MANDHARE ALPESH SHIVAJI	EveryIndia Pvt Ltd, Bangalore, 8067387000	TPC/1612/2021/0020
35	PRN:51654520181161210021	SHINDE AKSHAY ARVIND	Ajinkyatara Automotives Pvt.Ltd.	TPC/1612/2021/0021
36	PRN:51654520181161210022	SHINDE ANIKET CHANDRASHEKHAR	Cognizant	TPC/1612/2021/0022
37	PRN:51654520181161210023	CHAVAN AKASH SANJAY	GHO	TPC/1612/2021/0023
38	PRN:51654520181161210026	SHINDE PUJA PRAKASH	Infosys	TPC/1612/2021/0026
39	PRN:51654520181161210027	PAWLE HRITUJA RAMAKANT	тся	TPC/1612/2021/0027
40	PRN:51654520181161210028	HERKAL SHRIKANT KRISHNA	JCB India Ltd, Pune	TPC/1612/2021/0028
41	PRN:51654520181161210029	SURYAWANSHI APARNA VASANT	Tata AutoComp Gotion Green Energy Solutions Private Limited	TPC/1612/2021/0029
42	PRN:51654520181161210030	PATIL SNEHAL JAGANNATH	тся	TPC/1612/2021/0030
43	PRN:51654520181161210031	LAD KAVITA RAJESH	SIEMENS	TPC/1612/2021/0031
44	PRN:51654520181161210032	DESHMUKH AISHWARYA SANTOSH	тся	TPC/1612/2021/0032
45	PRN:51654520181161210034	GAIKWAD VISHAL RAJU	Gurukrupa Industries, Pune 0206521004	TPC/1612/2021/0034
46	PRN:51654520181161210035	HARANE DIGAMBAR ASHOK	Teknovance Solutions Pvt. Ltd., Pune	TPC/1612/2021/0035
47	PRN:51654520181161210038	DHOTRE SHUBHAM CHANDRAKANT	BigLeap Technologies & Solutions Pvt ltd, Pune	TPC/1612/2021/0038
48	PRN:51654520181161210039	BAGANE VIVEK VIJAYKUMAR	Shree SVS System Pune	TPC/1612/2021/0039
49	PRN:51654520181161210040	KAKADE AJAY SANJAY	AVM Engineeering	TPC/1612/2021/0040

50	PRN:51654520181161210041	PANDHARPURE RUGVEDA RAMESH	AVM Engineeering	TPC/1612/2021/0041
51	PRN:51654520181161210043	PAWAR AJIT SANJAYKUMAR	Satara Engineering Works	TPC/1612/2021/0043
52	PRN:51654520181161210044	SAPKAL AMIT KISAN	HEF SHINE , PUNE	TPC/1612/2021/0044
53	PRN:51654520181161210048	SHINDE YOGESH RAOSAHEB	Shambbu Industries	TPC/1612/2021/0048
54	PRN:51654520181161210049	SALUNKHE AKASH LAHU	Zerg Corporation Satara	TPC/1612/2021/0049
55	PRN:51654520181161210050	SUTAR ABHISHEK BALIRAM	AVM ELECTRICALS	TPC/1612/2021/0050
56	PRN:51654520181161210051	SURYAWANSHI AASHUTOSH AVINASH	Atharva Engineering, Satara	TPC/1612/2021/0051
57	PRN:51654520181161210053	NAWAJ ASLAM PATEL	Auto Choice	TPC/1612/2021/0053
58	PRN:51654520181161210054	SANKPAL ADITYA PRAVIN	PR Engineering Satara	TPC/1612/2021/0054
59	PRN:51654520181161210055	SAWANT SHUBHAM DATTATRAY	Infosys	TPC/1612/2021/0055
60	PRN:51654520181161210058	ROHILE NIHAL ANJUMANALLI	Infosys	TPC/1612/2021/0058
61	PRN:51654520181161210062	PAWAR SUSHANT VASANT	ТАТА	TPC/1612/2021/0062
62	PRN:51654520181161210065	GURAV AKSHAY SHIRISH	Atharva Engineering, Satara	TPC/1612/2021/0065
63	PRN:51654520181161210072	PAWAR SUSHANT DAYANAND	Sindhuraj Solar, Sangli	TPC/1612/2021/0072
64	PRN:51654520181161210073	KADAM UMESH BHIMARAO	PR ENGINEERING , SATARA	TPC/1612/2021/0073
65	PRN:51654520181161210074	PAWAR JAYADEEP JAGADEV	Sindhuraj Solar, Sangli	TPC/1612/2021/0074
66	PRN:51654520181161210077	HIRUGADE VIKAS SHIVAJI	YTTF	TPC/1612/2021/0077

67	PRN:51654520181161210079	KADAM PUSHPAL NAYAKU	Teamlease Services Ltd	TPC/1612/2021/0079
68	PRN:51654520181161210083	CHAVAN KIRAN VITTHAL	Pajanjape Autocast Pvt Ltd, Satara	TPC/1612/2021/0083
69	PRN:51654520181161210085	NAWADKAR RUPESH BHASKAR	Zerg Corporation Satara	TPC/1612/2021/0085
70	PRN:51654520181161210086	CHAVAN ROHIT SHANKAR	Auto Choice	TPC/1612/2021/0086
71	PRN:51654520181161210088	BHOSALE PRATIK NARENDRA	Sindhuraj Solar, Sangli	TPC/1612/2021/0088
72	PRN:51654520181161210092	NADAF WASEEM HARUN	Three D Magic Info Solution Pvt Ltd	TPC/1612/2021/0092
73	PRN:51654520181161210129	PATEL ARBAAJ JIYAUDIN	Cognizant	TPC/1612/2021/0129
74	PRN:51654520171161210033	CHAVAN PRATHMESH PRAVIN	HIGHER STUDY	HIGHER STUDY
75	PRN:51654520181161210067	AGRAWAL RATIK KAPIL	Entrepreneur	Entrepreneur

PLACEMENT 2019-2020

SR. NO	STUDENT NAME	ENROLLMENT NO.	EMPLOYEE NAME	APPOINTMENT NO
1	PATIL ANIKET	2016102802	TECHTREE IT SYSTEMS PVT LTD, MUMBAI	TPC/1612/2020/802
2	PISAL SONALI	2016102805	INFOSYS	TPC/1612/2020/805
3	BARGE AJINKYA	2016102808	ULTRA ENGINEERS, PUNE	TPC/1612/2020/808
4	SABALE AKSHAY	2016102814	SINDHURAJ SOLAR, SANGLI	TPC/1612/2020/814
5	PATIL SHUBHAM	2016102817	Ajinkyatara Automotive Pvt.Ltd	TPC/1612/2020/817
6	MANE KETAN	2016102818	ZERG CORPORATION, SATARA	TPC/1612/2020/818
7	KALE HARIDAS	2016102822	SINDHURAJ SOLAR, SANGLI	TPC/1612/2020/822
8	MANE SUSHANT	2016102824	TVH INDIA	TPC/1612/2020/824
9	NIKAM SOURABH	2016102825		TPC/1612/2020/825
10	PATIL RAVINA	2017106584	ZERG CORPORATION, SATARA	TPC/1612/2020/584
11	SURWASE SHUBHAM	2017106585	TCSL	TPC/1612/2020/585
12	DALAVI KIRAN	2017106586	INDIAN ARMY	TPC/1612/2020/586
13	MANE ONKAR	2017106588	INFOSYS, PUNE	TPC/1612/2020/588
14	SHINDE MEGHA	2017106591	WIPRO PARI INDUSTRIES, SHIRVAL	TPC/1612/2020/591
15	PATIL PRAGATI	2017106594	UTKARSH TRASMISSION PVT LTD	TPC/1612/2020/594
16	SAWANT PRAVIN	2017106598	BYJU'S	TPC/1612/2020/598
17	PAWAR SANKET	2017106601	Ajinkyatara Automotive Pvt.Ltd	TPC/1612/2020/601
----	---------------------	------------	---	-------------------
18	MANE MAYUR	2017106606	INDIAN POST	TPC/1612/2020/606
19	MANE SARIKA	2017106609	OGNIBENE	TPC/1612/2020/609
20	WAGHMARE SHUBHAM	2017106610	Align Engineering	TPC/1612/2020/610
21	SABALE SOMNATH	2017106611	LOGICON TECHNOSOLUTIONS PVT LTD, PUNE	TPC/1612/2020/611
22	SATRE AKSHAY	2017106613	GHADAGE PATIL INDUSTRIES LTD KOLHAPUR	TPC/1612/2020/613
23	WAINGADE RAMDAS	2017106616	Shri Ganesh Inustries	TPC/1612/2020/616
24	YEJARE SANGRAMSINGH	2017106617	TARA TOOLS, PUNE	TPC/1612/2020/617
25	MALUSARE VISHAL	2017106618	SATARA ENGINEERING, SATARA	TPC/1612/2020/618
26	PATIL PRATIKSHA	2017106619	INFOSYS	TPC/1612/2020/619
27	NAIK SANGRAM	2017106623	Align Engineering	TPC/1612/2020/623
28	JADHAV ANIKET	2017106624	OM ENTERPRISE, SATARA	TPC/1612/2020/624
29	JADHAV AMOL	2017106625	ATHARV ENGINEERING, SATARA	TPC/1612/2020/625
30	JADHAV ROHAN	2017106626	SINDHURAJ SOLAR, SANGLI	TPC/1612/2020/626
31	YEWALE VIKRAM	2017106629	GHO	TPC/1612/2020/629
32	PARAMANE AKSHAY	2017106636	VARROC ENGINEERING LTD	TPC/1612/2020/636
33	SHETE OMKAR	2017106638	SPACO TECHNOLOGIES INDIA PVT LTD, PUNE	TPC/1612/2020/638
34	MANE SURAJ	2017106640	OM ENTERPRISE, SATARA	TPC/1612/2020/640

35	JADHAV PRANIL	2017106646	ATHARV ENGINEERING, SATARA	TPC/1612/2020/646
36	CHAVAN SANKET	2017106647	NIPRO INDIA CORPORATION, SHIRWAL	TPC/1612/2020/647
37	JADHAV RAHUL	2017106652	Tagloy Media Pvt.Ltd	TPC/1612/2020/652
38	BHABAN RUSHIKESH	2017106656	INFOSYS, PUNE	TPC/1612/2020/656
39	SHIVANI KAKADE	2017106643	M.TECH	AGCE, SATARA

Table B.4.5a

4.6. Professional Activities (/20)

4.6.1 Professional societies/chapters and organizing engineering events (5)

r				
SR.No	Name Of Activity	Date	Resorce Person	Type of activity (Guest Lecture/Quiz/Project Competition/workshop
1	AVISHKAR 2022- 2023	18-11-2022	Dr. S.V. Khobharagade	Research Convention Project Computation
2	Guest lecture on Management Studies	14-12-2022	Dr. Pranjali Ankule	Guest Lecture
3	Skill based Training Program	06-01-2023	Symboisis Skills and Professional University (SSPU)	Guest Lecture
4	IT Career in digital marketing (AJDM)	10-03-2023	Mr. Ajinkya Pawar (AJDM, India)	Guest Lecture
5	Opportunities in IT Industry & Japan	03-05-2023	Mr.Bipin Kadam	Guest Lecture
6	Recent Trends and opportunities in IT	19-05-2023	Mr. Shivraj Gaikwad (Rapportsoft Consulting Pune)	Guest Lecture
7	ICIRTES-2023 , INTERNATIONAL CONFERENCE ON INNOVATIONS AND RECENT TRENDS IN ENGINEERING AND SCIENCE	10-06-2023	Dr. Vilas Pharande	INTERNATIONAL CONFERENCE
8	Project competition	24-12-2023	Dr. Salmanwarimani	Project competition
9	Solid Work	07/12/2022 to 15/02/2023	Mahesh Sathe Design solution	Workshop

YEAR 2022-23

10	"Mechatronics and Automation	16/12/2022 to 17/12/2022	"Mechatronics and Automation	Guest lecture
11	Corporate Grooming	21-02-2023 to 23-02-2023 Mr George		Guest Lecture
12	Guest lecture on Software Testing05-05-2023Mr Suraj Sawant		Guest Lecture	
13	C, C++ on Turbo C and HTML	01/08/2023 to 14/08/2023	Mr. Swapnil Mapari Disha Computers, Satara	Workshop
15	C, C++ and Advance Java	07/08/2023 to 11/08/2023	Mr. Nilesh Sonawane Design Solution, Karad	Workshop
16	AutoCAD	10/08/2023 To 18/08/2023	Mr. Mahesh Sathe Design Solution, Karad	Workshop
17	PCB Design and Manufacturing	07/08/2023 To 18/08/2023	Mr. Pravin Mohite Aptron Tech Pvt. Ltd. Satara	Workshop
18	C, C++ and Python	07/08/2023 To 18/08/2023	Mrs. Pranali Nalawade Squirrel's Infotech, Satara	Workshop
19	Automation in IOT	01/08/2023 To 31/08/2023	Mr. Tushar Inamdar Squarewave Automation Pvt. Ltd. Satara	Workshop

Professional Chapter 2022-2023

Sr.No	NAME OF CHAPTER	MEMBERSHIP NAME	NO./YEAR	MEMBERSHIP DURATION		
1	THE INDIAN SOCIETY FOR TECHENICAL EDUCATION (ISTE)	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	MH-313/2023	LIFE TIME		

Professional Activities 2021-2022

SR.No	Name Of Activity	Date	Resource person	Type of activity(Guest Lecture/Quiz/Project Competition/workshop
1	Guest lecture on competitive examination	06-04-2022	Mr. Akshay Jadhav	Guest Lecture
2	Workshop on CATIA	26/11/21 to 21/1/2022	Mahesh Sathe	Workshop
3	Workshop on Creo 3.0	26/1/22 to 27/2/2022	Mahesh Sathe	Workshop
4	Quality circle lecture in Electrical Vehical	03-03-2022	Mr. Suraj Ghadage	Guest lecture
5	Quality circle lecture in Verious Teaching Metod	17-04-2022	Mr. Patil Suhas P.	Guest lecture
6	Quality circle lecture on 3D printing	19-05-2022	Mrs. Alatkar M.N.	Guest lecture
7	Quality circle lecture on FFT analyzer	05-10-2021	Mr. Arjun Kadam	Guest lecture
8	Expert Lecture on Industrial Engineering	01-02-2022	Dr A.B.Gholap, Asst Prof MMCOE Pune	Online Lecture
9	Expert Lecture on Heat Transfer	01-02-2022	Dr Choudhari C.S. AISSMS Pune	Online Lecture
10	Expert Lecture on Metrology and Quality control	05-02-2022	Mr Vikram Pawar	Online Lecture
11	Expert Lecture on Material science and Metallurgy	28-01-2022	Dr Shirguppikar Shailesh RIT Islampur	Online Lecture
12	Expert Lecture on Applied Thermodynamics	28-01-2022	Mr Pujari A.S. Resarch Scholar IIT Bombay	Online Lecture
13	Expert Lecture on Manufacturing processes-III	28-01-2022	Ms Dhende Geetanjali GCE,Karad	Online Lecture
14	Expert Lecture on Theory of Machines-II	29-01-2022	Mr Manik Patil DYPIT Pimpri	Online Lecture

15	Expert Lecture on Fluid mechanics &Hydraulics-I	01-02-2022	Dr. Mahesh Bhong Indira Collegeof Engg and Mgmt	Online Lecture
16	Expert Lecture on CAD/CAM	02-01-2022	02-01-2022 Mr Mahesh Sathe Design Solution Pvt Ltd.Pune	
17	Expert Lecture on Thermodynamics	29-01-2022	29-01-2022 Mr Tapase V.N BSCOER,Pune NKOCET,Solapur	
18	Expert Lecture on Engineering Maths-III	27-01-2022	Amol Kalange	Online Lecture
19	Internal Hackthon of Smart India Hackthon 2022	28-04-2022 to	Dr Mirajkar Gayatri	Project Competition
20	English Speaking Session	1-05-2022 to 30- 06-2022	Mr. Kale Abhay .A. (A.G.C.E., Satara)	Regular session
21	Campus To Corporate	1-05-2022 to 30- 06-2022	Ms. Bhilare Nikita.S.	Regular session
22	German Language Training Program for promoting Students for M.S. opportunities in Germany.	1-03-2022 to 30- 06-2022	Mrs. Sunita Shaligram (Trainer Chinmay Educational Consultancy, Pune	Regular session
23	Brand Yourself	17-05-2022 to 19- 05-2022	Mr. George	Workshop
24	Yuva 360 degree Internship	14-06-2022	Mrs Patil Rachana Sarange	Workshop

Professional Societies 2021-2022

Sr.No	Name of Students	Date of membership	Name of membership	MEMBERSHIP NO
1	ANIRUDHA SANJAY KADAM	04-05-2022	IAENG , INTERNATIONAL ASSOCIATION OF ENGINEERS	311150

2	ARTI SANJAY GAIKWAD	04-05-2022	IAENG , INTERNATIONAL ASSOCIATION OF ENGINEERS	311151
3	PANVELKAR AISHWARYA SHARAD	04-05-2022	IAENG , INTERNATIONAL ASSOCIATION OF ENGINEERS	311153
4	AMRUTA ANKUSH DESHMUKH	04-05-2022	IAENG , INTERNATIONAL ASSOCIATION OF ENGINEERS	311154
5	HASAN ALLUDHIN SHAIKH	04-05-2022	IAENG , INTERNATIONAL ASSOCIATION OF ENGINEERS	311155
6	SANJANA SAMBAJI JADHAV	04-05-2022	IAENG , INTERNATIONAL ASSOCIATION OF ENGINEERS	311156
7	DESHMUKH SHUBHANGI SADASHIV	04-05-2022	IAENG , INTERNATIONAL ASSOCIATION OF ENGINEERS	311157
8	SURYAWANSHI SHIVANI BABASO	04-05-2022	IAENG , INTERNATIONAL ASSOCIATION OF ENGINEERS	311158
9	SURYAWANSHI SHAILAJA SATYANAYARAYAN	04-05-2022	IAENG , INTERNATIONAL ASSOCIATION OF ENGINEERS	311159
10	KANDGAL VILAS DODAPPA	04-05-2022	IAENG , INTERNATIONAL ASSOCIATION OF ENGINEERS	311160
11	MATKAR AKANSHA DATTATRAY	04-05-2022	IAENG , INTERNATIONAL ASSOCIATION OF ENGINEERS	311161
12	KAMBLE VAISHNAVI SATISH	04-05-2022	IAENG , INTERNATIONAL ASSOCIATION OF ENGINEERS	311165
13	PRAVIN ANKUSH JADHAV	25-05-2022	IAENG , INTERNATIONAL ASSOCIATION OF ENGINEERS	312394

Professional Activities 2020-2021

SR.No	Name Of Activity	Date	Type of activity(Guest Lecture/Quiz/Project Competition/workshop
1	Prepare yourself for Abroad opportunities (M.S./ M.B.A) by	26-11-2020	Online Guest Lecture
2	How to Crack Gate Examination	05-12-2020	Online Guest Lecture

3	Online webinar on Intellectual property right	28-05-2021	Online Guest Lecture
4	Conducted guest lecture on Civil Services as a Career choice	05-11-2020	Online Guest Lecture
5	Conducted guest lecture on Career Opportunities in Banking Sectors	11-11-2020	Online Guest Lecture
6	Conducted guest lecture on Career Opportunities after B. Tech	05-11-2022	Online Guest Lecture
7	Conducted guest lecture on Attitude building for professional Excellence	23rd Nov 2020	Online Guest Lecture
8	Conducted guest lecture on Career in Software Testing, Prerequisites	9th May 2021	Online Guest Lecture
9	Conducted guest lecture on development of communication skills	24th Nov 2020	Online Guest Lecture
10	Conducted guest lecture on Expectations from the Young Professionals	16th April 2021	Online Guest Lecture
11	Conducted guest lecture on Yoga for Physical and Mental Health	1st December 2020	Online Guest Lecture
12	Conducted guest lecture on Industrial Talk on Carrier start-up funding	17th April 2021	Online Guest Lecture
13	Conducted Expert lecture on Career Options and opportunities for Electronics Graduates	26th April 2021	Online Guest Lecture
14	Conducted Guidance session on Entrepreneurship	25th April 2021	Online Guest Lecture
15	Conducted guest lecture on Industrial Skill requirements and Job opportunities	02-Mar-21	Online Guest Lecture
16	Conducted guest lecture on Women's day and Self defense session	9th March 2021	Online Guest Lecture
17	Conducted Alumni guest lecture on Industrial Automation	6th November 2020	Online Alumni Guest Lecture
18	Conducted Online guest lecture on Career scope for Industrial Automation	2nd March 2021	Online Alumni Guest Lecture

4.6.2 Publication of technical magazines, newsletters, etc. (5)

(The Department shall list the publications mentioned earlier along with the names of the editors, publishers, etc.)

Sr No	Name of News letter	Year	Name of Editor	Publisher	Туре
1	GEARING	2019- 2020	Mr. Ravi Raju Kamble	Arvind Gavali College of Engineering Satara	YEARLY
2	GEARING	2020-21	Mr. Ravi Raju Kamble	Arvind Gavali College of Engineering Satara	YEARLY
3	GEARING	2021-22	Mr. Ravi Raju Kamble	Arvind Gavali College of Engineering Satara	YEARLY
4	GEARING	2022-23	Mr. Arjun Kadam	Arvind Gavali College of Engineering Satara	YEARLY

Following students are collecting the data & make it ready for the newsletter under the supervision of upper mention faculty

Sr No	Name of News letter	Year	Name of Editor	Publisher	Туре
1	GEARING	2020- 2021	Patil Snehal Jagannath	Arvind Gavali College of Engineering Satara	YEARLY
2	GEARING	2021- 2022	Pustake Utkarsh Ravindra	Arvind Gavali College of Engineering Satara	YEARLY
3	GEARING	2022- 2023	Kadam Anirudha Sanjay	Arvind Gavali College of Engineering Satara	YEARLY
4	GEARING	2022- 2023	Aditya Vaibhav Sutar	Arvind Gavali College of Engineering Satara	YEARLY

4.6.3 Participation in inter-institute events by students of the program of study **(10)**

YEAR 2022-23

SR.NO	NAME OF STUDENTS	RANK	NAME OF EVENT	LEVEL	EVENT ORGANIZED INSTITUTE	DATE OF EVENT
1	MR. ANIRUDDHA SANJAY KADAM	WINNER	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
2	MISS. ARTI SANJAY GAIKWAD	WINNER	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
3	MR. AKANKSHYA MATKAR	Runner	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
4	KUTALE HARISH S.	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
5	MS.GALVE KAJAL SANJAY	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
6	HASAN SHAIKH	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
7	DESHMUKH SHUBHANGI S.	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
8	KANDGAL VILAS D.	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
9	SURYAWANSHI SHAILAJA S.	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
10	SURYAWANSHI SHIVANI S.	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
11	AISHWARYA PANVELKAR	PARTICIPANT	AVISHKAR 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18-11-2022
12	MR. ANIRUDDHA SANJAY KADAM	PARTICIPANT	AVISHKAR 2022	ZONAL	SHRAD INSTITUTE OF TECHANOLOGY, YADRAV	10-12-2022
13	MISS. ARTI SANJAY GAIKWAD	PARTICIPANT	AVISHKAR 2022	ZONAL	SHRAD INSTITUTE OF TECHANOLOGY, YADRAV	10-12-2022

14	MR. AKANKSHYA MATKAR	PARTICIPANT	AVISHKAR 2022	ZONAL	SHRAD INSTITUTE OF TECHANOLOGY, YADRAV	10-12-2022
15	HASAN SHAIKH	PARTICIPANT	CAD WAR 3D	STATE LEVEL	PHALTAN EDUCATION SOCIETYS COLLEGE OF ENGINEERING, PHALTAN	24-02-2023
16	MR. ANIRUDDHA SANJAY KADAM	RUNNER	CAD WAR 3D	STATE LEVEL	PHALTAN EDUCATION SOCIETYS COLLEGE OF ENGINEERING, PHALTAN	24-02-2023
17	HASAN SHAIKH	PARTICIPANT	ASSEMBLY MAKING	STATE LEVEL	PHALTAN EDUCATION SOCIETYS COLLEGE OF ENGINEERING, PHALTAN	24-02-2023
18	KUTALE HARISH S.	PARTICIPANT	ASSEMBLY MAKING	STATE LEVEL	PHALTAN EDUCATION SOCIETYS COLLEGE OF ENGINEERING, PHALTAN	24-02-2023
19	PRAVIN JADHAV	PARTICIPANT	ASSEMBLY MAKING	STATE LEVEL	PHALTAN EDUCATION SOCIETYS COLLEGE OF ENGINEERING, PHALTAN	24-02-2023
20	MS.GALVE KAJAL SANJAY	PARTICIPANT	PROJECT COMPETITION	STATE LEVEL	PHALTAN EDUCATION SOCIETYS COLLEGE OF ENGINEERING, PHALTAN	24-02-2023
21	MISS. ARTI SANJAY GAIKWAD	PARTICIPANT	PROJECT COMPETITION	STATE LEVEL	PHALTAN EDUCATION SOCIETYS COLLEGE OF ENGINEERING, PHALTAN	24-02-2023
22	MR. ANIRUDDHA SANJAY KADAM	PARTICIPANT	PROJECT COMPETITION	STATE LEVEL	PHALTAN EDUCATION SOCIETYS COLLEGE OF ENGINEERING, PHALTAN	24-02-2023
23	HASAN SHAIKH	PARTICIPANT	PROJECT COMPETITION	STATE LEVEL	PHALTAN EDUCATION SOCIETYS COLLEGE OF ENGINEERING, PHALTAN	24-02-2023
24	MR. ANIRUDDHA SANJAY KADAM	WINNER	TECHNO VISION 2023	NATIONAL LEVEL	JSPM,NAHRE PUNE	01-03-2023
25	HASAN SHAIKH	PARTICIPANT	SPECTRUM 2K23	ZONAL	DR. DAULATRAO AHER COLLEGE OF ENGINEERING,KARAD	21-03-2023
26	KUTALE HARISH S.	PARTICIPANT	SPECTRUM 2K23	ZONAL	DR. DAULATRAO AHER COLLEGE OF ENGINEERING,KARAD	21-03-2023
27	KUTALE HARISH S.	PARTICIPANT	SPECTRUM 2K23	NATIONAL LEVEL	DR. DAULATRAO AHER COLLEGE OF ENGINEERING,KARAD	21-03-2023
28	MR. ANIRUDDHA SANJAY KADAM	PARTICIPANT	SPECTRUM 2K24	NATIONAL LEVEL	DR. DAULATRAO AHER COLLEGE OF ENGINEERING,KARAD	22-03-2023
29	KUTALE HARISH S.	PARTICIPANT	EUREKA AND JIDNYASA 2K23	NATIONAL LEVEL	TKIT, WARANANAGER	13-04-2023

30	KUTALE HARISH S.	RUNNER	EUREKA AND JIDNYASA 2K23	NATIONAL LEVEL	TKIT, WARANANAGER	13-04-2023
31	MR. ANIRUDDHA SANJAY KADAM	RUNNER	EUREKA AND JIDNYASA 2K24	NATIONAL LEVEL	TKIT, WARANANAGER	13-04-2023
32	MR. ANIRUDDHA SANJAY KADAM	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
33	KUTALE HARISH S.	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
34	DESHMUKH SHUBHANGI S.	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
35	KANDGAL VILAS D.	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
36	SURYAWANSHI SHAILAJA S.	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
37	SURYAWANSHI SHIVANI S.	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
38	SANJANA SAMBHAJI JADHAV	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
39	SAURABH PILOBA ZANJURNE	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
40	VAISHNAVI SATISH KAMBLE	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
41	ABHIJEET SUNIL BHOSALE	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
42	ABHIJIT SARJERAO SHINDE	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
43	ADITYA RAVINDRA PATIL	PARTICIPANT	PROJECT COMPETITION	NATIONAL LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	16-04-2023
44	MR. ANIRUDDHA SANJAY KADAM	PARTICIPANT	PIONEER 2023	NATIONAL LEVEL	KIT , KOLHAPUR	23-04-2023
45	HASAN SHAIKH	PARTICIPANT	PIONEER 2023	NATIONAL LEVEL	KIT , KOLHAPUR	24-04-2023

46	MR. ANIRUDDHA SANJAY KADAM	RUNNER	TECHNO-SCI 2K23	NATIONAL LEVEL	MMIT , PUNE	26-04-2023
47	MS.GALVE KAJAL SANJAY	PARTICIPANT	ROTAREX 2023	STATE LEVEL	ROTARY CLUB OF SATARA	17 &18TH APRIL 2023
48	MR. ANIRUDDHA SANJAY KADAM	PARTICIPANT	ROTAREX 2023	STATE LEVEL	ROTARY CLUB OF SATARA	17 &18TH APRIL 2023
49	KUTALE HARISH S.	PARTICIPANT	ROTAREX 2023	STATE LEVEL	ROTARY CLUB OF SATARA	17 &18TH APRIL 2023
50	DESHMUKH SHUBHANGI S.	PARTICIPANT	ROTAREX 2023	STATE LEVEL	ROTARY CLUB OF SATARA	17 &18TH APRIL 2023
51	KANDGAL VILAS D.	PARTICIPANT	ROTAREX 2023	STATE LEVEL	ROTARY CLUB OF SATARA	17 &18TH APRIL 2023
52	SURYAWANSHI SHAILAJA S.	PARTICIPANT	ROTAREX 2023	STATE LEVEL	ROTARY CLUB OF SATARA	17 &18TH APRIL 2023
53	SURYAWANSHI SHIVANI S.	PARTICIPANT	ROTAREX 2023	STATE LEVEL	ROTARY CLUB OF SATARA	17 &18TH APRIL 2023
54	MS.GALVE KAJAL SANJAY	PARTICIPANT	ROTAREX 2023	STATE LEVEL	ROTARY CLUB OF SATARA	17 &18TH APRIL 2023
55	MS.GALVE KAJAL SANJAY	PARTICIPANT	CRETECHNOVA 2K23	NATIONAL LEVEL	SVPMS COLLEGE OF ENGINEERING,MALEGAON	20TH &21TH APRIL 2023
56	KUTALE HARISH S.	PARTICIPANT	CRETECHNOVA 2K23	NATIONAL LEVEL	SVPMS COLLEGE OF ENGINEERING,MALEGAON	20TH &21TH APRIL 2023
57	ADITYA PATIL	PARTICIPANT	CRETECHNOVA 2K23	NATIONAL LEVEL	SVPMS COLLEGE OF ENGINEERING,MALEGAON	20TH &21TH APRIL 2023
58	DIGVIJAY PATIL	PARTICIPANT	CRETECHNOVA 2K23	NATIONAL LEVEL	SVPMS COLLEGE OF ENGINEERING,MALEGAON	20TH &21TH APRIL 2023
59	AISHWARYA PANVELKAR	WINNER	CRETECHNOVA 2K23	NATIONAL LEVEL	SVPMS COLLEGE OF ENGINEERING,MALEGAON	20TH &21TH APRIL 2023
60	AYUSH JADHAV	WINNER	CRETECHNOVA 2K23	NATIONAL LEVEL	SVPMS COLLEGE OF ENGINEERING,MALEGAON	20TH &21TH APRIL 2023
61	PRAVIN JADHAV	WINNER	CRETECHNOVA 2K23	NATIONAL LEVEL	SVPMS COLLEGE OF ENGINEERING,MALEGAON	20TH &21TH APRIL 2023

NBA e-SAR 2022-23

62	AKANSHA MATKAR	WINNER	CRETECHNOVA 2K23	NATIONAL LEVEL	SVPMS COLLEGE OF ENGINEERING,MALEGAON	20TH &21TH APRIL 2023
63	HASAN SHAIKH	WINNER	CRETECHNOVA 2K23	NATIONAL LEVEL	SVPMS COLLEGE OF ENGINEERING,MALEGAON	21ST &21TH APRIL 2023
64	MR. ANIRUDDHA SANJAY KADAM	RUNNER	CRETECHNOVA 2K23	NATIONAL LEVEL	SVPMS COLLEGE OF ENGINEERING,MALEGAON	21ST &21TH APRIL 2023
65	PAWAR SNEHAL SANTOSH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
66	BHAPKAR ROHIT SUNIL	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
67	NIKAM VAIBHAV DILIP	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
68	JADHAV KARAN UDDHAV	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
69	KONDHALKAR BANAJI BAPU	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
70	BARGE ATUL RAVINDRA	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
71	BHINTADE MRUNAL RAJAN	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
72	MARATHE VIKRANT VASANT	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
73	JADHAV SHRIYASH SHASHIKANT	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
74	NIKITA SHIVDAS KOSHTI	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
75	RAUT PRATHAMESH BRAMHADEV	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
76	KHARAT CHAITANYA LAXMAN	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
77	SHINDE SUYOG MASKUDEV	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

78	MORBALE ABHISHEK SANGRAM	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
79	PRALHAD SOMAJI DALAVI	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
80	LOHAR AJINKYA SURESH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
81	ATHAVE ANIKET ASHOK	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
82	BHOSALE VAIBHAV DATTATRAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
83	KALE TUSHAR VIKAS	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
84	DIPRAJ SUDHIR SHELAR	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
85	CHALKE AKASH ANAND	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
86	THOMBARE SOURABH SANJAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
87	DOMBE SAURABH SHIVAJI	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
88	MASAL DADASAHEB ASHOK	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
89	GHORPADE RUSHIKESH VASANT	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
90	JADHAV HARSHADA BALKRUSHANA	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
91	LALGE PRAJAKTA TULSHIDAS	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
92	KSHIRSAGAR ROHAN SHAHAJI	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
93	SAWANT PRAJWAL PRADEEP	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

94	BHOSALE SHUBHAM BALASAHEB	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
95	GURAV SUDHANSHU VIJAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
96	JADHAV GAURAV VIJAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
97	PATIL SHREYASH PRAVIN	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
98	KATKAR MANGESH SUNIL	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
99	ROKADE SHUBHAM SURESH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
100	GHORPADE AKSHAY DATTATRAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
101	CHAVAN PRANAV ANIL	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
102	CHAVAN PRASANNA ANANDRAO	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
103	SAWANT SHUBHAM UMESH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
104	GHADGE PRANIT PRAMOD	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
105	RAJOPADHYE SAMEER RAJENDRA	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
106	NIKAM PRATHAMESH SANJAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
107	NIMBALKAR KARAN SITARAM	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
108	JADHAV MANUJA NAMDEV	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
109	PAWAR ROHAN SAHEBRAO	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

110	PHADATARE PRATIKSHA YUVRAJ	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
111	SALUNKHE PRAJYOT VILAS	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
112	BHINTADE SAGAR SHANKAR	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
113	JAGTAP PRAJWAL BALWANT	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
114	GIRAME RUSHIKESH SHANTARAM	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
115	ATTAR DANISH HUSEN	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
116	JADHAV VISHAL RAMCHANDRA	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
117	PISAL PRASAD TATYASAO	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
118	SHAIKH FARDIN ARIF	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
119	SALUNKHE AMAR PRAKASH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
120	SUTAR JEEVAN KALIDAS	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
121	RASKAR PRATIK HINDURAO	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
122	SALUNKHE NIRANJAN UMESH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
123	BAHIR VAIBHAV SHESHRAO	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
124	DANGE ABRAR JAHANGEER	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
125	DAREKAR PRASHANT LAXMAN	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

NBA e-SAR 2022-23

126	YADAV SUJIT RAMESH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
127	PAWAR SHUBHAM SHANKAR	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
128	CHAVAN ABHISHEK SANJAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
129	SALUNKHE KUNAL SUNIL	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
130	DESAI AKSHAY SHANKAR	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
131	DESAI SURAJ SUNIL	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
132	YADAV SURAJ DHANAJI	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
133	NIKAM SAURABH VIJAY	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
134	LAMBE SIDDHARTH UMESH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
135	KAMBLE SHUBHAM BHAGWAN	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
136	JADHAV AKSHAY VILAS	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
137	GAIKWAD VAIBHAV JAGANNATH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
138	JAMDADE SOHAM RAMESH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
139	BHISE SAGAR MOHAN	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
140	PAWAR VIJAY BHIMARAO	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
141	DHAYGUDE KOMAL RAGHUNATH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

142	JADHAV AMIT ANKUSH	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
143	YADAV ANISH PRABHAKAR	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
144	MAHADIK PRASAD MUKUND	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
145	MAHADIK SAINATH MUKUND	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
146	DESAI SACHIN DEVAVNAND	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
147	SAWALKAR VARAD VASUDEV	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
148	KAMBLE DIPALI ANANDA	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
149	MALUSARE MAYUR DILIPRAO	PARTICIPANT	ICIRTES-2023	INTERNATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2024

NPTEL Certification

Sr.no	Name of Students	Course ID	Course Name	Final Score	Certificate Type
1	ANIRUDHA SANJAY KADAM	NPTEL23ME55S64600226	IC ENGINE AND GAS TURBINE	50	SUCESSFULLY COMPLETED
2	HASAN ALLAUDDIN SHAIKH	NPTEL23ME55S64600274	IC ENGINE AND GAS TURBINE	52	SUCESSFULLY COMPLETED

CO CARRICULAR COURSES

Sr.no	Name of Students	Course Duration	Course Name	Final Score	Certificate Type
1	ANIRUDHA SANJAY KADAM	2 MONTH	SOLID WORKS	A	SUCESSFULLY COMPLETED

2	HASAN ALLAUDDIN SHAIKH	2 MONTH	SOLID WORKS	А	SUCESSFULLY COMPLETED
3	AISHWARYA SHARAD PANVELKAR	2 MONTH	SOLID WORKS	A	SUCESSFULLY COMPLETED
4	SANJANA SAJAY JADHAV	2 MONTH	SOLID WORKS	А	SUCESSFULLY COMPLETED
5	AYUSH DATTATRAYA JADHAV	2 MONTH	SOLID WORKS	A	SUCESSFULLY COMPLETED
6	RUSHIKESH DIPAK GAIKWAD	2 MONTH	SOLID WORKS	А	SUCESSFULLY COMPLETED
7	VAISHNAVI SATISH KAMBLE	2 MONTH	SOLID WORKS	А	SUCESSFULLY COMPLETED

Sr.no	Name of Students	Rank	Name of Event	Level	Event Organized Institute	Date of Event
1	AYUSH JADHAV	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
2	MUSTAN ATTAR	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
3	RUSHIKESH GAIKWAD	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
4	ATHRVE DHANE	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
5	OMKAR MAHADIK	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
6	MATKAR AKANKSHA	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
7	KAJAL GALAVE	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022

8	PRAVIN ANKUSH JADHAV	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
9	SANJANA SAMBHAJI JADHAV	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
10	SAURABH PILOBA ZANJURNE	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
11	VAISHNAVI SATISH KAMBLE	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
12	ABHIJEET SUNIL BHOSALE	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
13	ABHIJIT SARJERAO SHINDE	VOLUNTEER	SATARA HILL MARATHON	NATIONAL	SATARA RUNNERS FOUNDATION	18-09-2022
14	ADITYA RAVINDRA PATIL	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022
15	AISHWARYA SHARAD PANVELKAR	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022
16	AMAN MAHADEV MAHADIK	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022
17	DIGVIJAY DIPAK DESAI	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022
18	BHOSALE VAIBHAV DATTATRAY	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022
19	KALE TUSHAR VIKAS	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022
20	DIPRAJ SUDHIR SHELAR	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022
21	CHALKE AKASH ANAND	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022
22	THOMBARE SOURABH SANJAY	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022
23	DOMBE SAURABH SHIVAJI	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022

24	KADAM SWAPNIL SURESH	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022
25	MASAL DADASAHEB ASHOK	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022
26	GHORPADE RUSHIKESH VASANT	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022
27	PHADATARE SHUBHAM RAJENDRA	VOLUNTEER	MAS MARATHON	STATE LEVEL	MANUFACTURING ASSOCIATION , SATARA	02-10-2022
28	SURYAWANSHI SHIVANI BABASO	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
29	AYUSH DEEPAK PATIL	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
30	SINHASANE SOURABH SANTOSH	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
31	GHODKE VEDANTI KISHOR	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
32	GAWARI YOGESH BALU	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
33	KAKADE OMKAR VITTHAL	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
34	DHANE SHUBHAM VIJAY	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
35	MAHADIK RAJ RAMESH	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
36	GANDHALE ARJUN LAXMAN	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
37	JADHAV AYUSH DATTATRAY	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023

38	MUSTAN NISAR ATTAR	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
39	MORE ROHIT NIVRUTTI	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
40	KATE SWAPNIL DATTATRAY	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
41	KHUTE ANIL TUSHIRAM	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
42	GAIKWAD RUPESH VIJAYSINH	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
43	SAYYAD SHAHID RIYAJ	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
44	DESHMUKH SOURABH SANJAY	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
45	RUSHIKESH DILIP GAIKWAD	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
46	AKASH DNYANDEV MANE	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
47	YASHRAJ UMESH KAKADE	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
48	DESHMUKH PRATHAMESH PRABHAKAR	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
49	KESHAV BHANUDAS PAWAR	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
50	AWADE KUNAL ANANDA	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
51	BANDAL SAUMITRA RAHUL	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF	19-02-2023

					ENGINEERING, SATARA	
52	BHOPALE PRATHAMESH SANJAY	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
53	BORSE RAJ GOKUL	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
54	CHAVAN AJAY CHANGDEV	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
55	DESAI ROHIT SATISH	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
56	DHANE ATHARAVA RAJENEDRA	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
57	GAIKWAD SHUBHAM SANJAY	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
58	GAIKWAD SHUBHAM SURESH	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
59	GHADGE AKASH UTTAM	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
60	GHORPADE AMIT LAHU	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
61	GHORPADE SANKET DILIP	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
62	BARGE ATUL RAVINDRA	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
63	BHINTADE MRUNAL RAJAN	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
64	MARATHE VIKRANT VASANT	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023

65	SHINGATE SHUBHAM HANMANT	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
66	ABHISHEK CHANDRAKANT SALUNKHE	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
67	RAIKAR SHUBHAM ANANDRAO	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
68	PAWAR SIDDHANT SUNIL	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
69	ZANJURNE AKSHAY DHANANJAY	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
70	ANIRUDHA SANJAY KADAM	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
71	AVISHKAR KADAM	PARTICIPANT	SHIVJAYANTI 2023	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
72	AYUSH DATTATRAY JADGHAV	PARTICIPANT	SHIVJAYANTI 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2023
73	AMAN MAHADEV MAHADIK	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
74	AMRUTA ANKUSH DESHMUKH	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
75	ANIRUDHA SANJAY KADAM	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
76	ARATI SANJAY GAIKWAD	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
77	AVINASH POPAT CHAVAN	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
78	DIGVIJAY KIRAN GHORPADE	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF	05-04-2023

NBA e-SAR 2022-23

					ENGINEERING, SATARA	
79	DIGVIJAY DIPAK DESAI	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
80	HARISH SUNIL KHUTALE	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
81	MATKAR AKANSHA DATTATRAY	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
82	KAJAL SANJAY GALVE	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
83	DHANE PRATHAMESH SANJAY	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
84	NIKAM RUSHIKESH SHIVAJI	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
85	DESHMUKH SHUBHANGI SADASHIV	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
86	DABADE DINESH VASANT	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
87	GADE ROHIT VINOD	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
88	KANDGAL VILAS DODAPPA	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
89	SURYAWANSHI SHIVANI BABASO	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
90	AYUSH DEEPAK PATIL	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
91	SINHASANE SOURABH SANTOSH	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023

92	GHODKE VEDANTI KISHOR	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
93	KAKADE OMKAR VITTHAL	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
94	DHANE SHUBHAM VIJAY	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
95	MAHADIK RAJ RAMESH	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
96	GANDHALE ARJUN LAXMAN	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
97	JADHAV AYUSH DATTATRAY	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
98	MUSTAN NISAR ATTAR	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
99	MORE ROHIT NIVRUTTI	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
100	KATE SWAPNIL DATTATRAY	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
101	KHUTE ANIL TUSHIRAM	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
102	GAIKWAD RUPESH VIJAYSINH	PARTICIPANT	TARUNAI 2023	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
103	AYUSH JADHAV AND GROUP	WINNER	WASTERN AND MISSMATCH DAY	STATE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
104	TARDE RUTAVIK	WINNER	KABBADI	STATE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
105	SALUNKHE GAURAV	WINNER	KABBADI	STATE LEVEL	ARVIND GAVALI COLLEGE OF	05-04-2023

					ENGINEERING, SATARA	
106	JADHAV ROHAN	WINNER	KABBADI	STATE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
107	GAIKWAD SUSHNT	WINNER	KABBADI	STATE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
108	MANE AKASH	WINNER	KABBADI	STATE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
109	SHAIKH HASAN	WINNER	KABBADI	STATE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
110	DHANWADE ROHAN	WINNER	KABBADI	STATE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	05-04-2023
111	AVISHKAR ANIL ATTAR	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	09-03-2023
112	AYUSH JADHAV	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	09-03-2023
113	AKANSHA MATKAR	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	09-03-2023
114	ATTAR MUSTAN NISAR	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	09-03-2023
115	RUSHIKESH DIPAK GAIKWAD	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	09-03-2023
116	ATHARV RAJENDRA DHANE	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	09-03-2023
117	OMKAR RAJENDRA MIRAJE	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	09-03-2023
118	AISHWARYA SHARAD PANVELKAR	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	09-03-2023

119	ARTI SANJAY GAIKWAD	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	09-03-2023
120	OMKAR SHIVAJI BANDGAR	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	09-03-2023
121	SANJANA SAMBHAJI JADHAV	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	09-03-2023
122	KABMALE VASHNAVI SATISH	PARTICIPANT	NSS CAMP	DISTRICT	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	09-03-2023
123	MUSTAN ATTAR	PARTICIPANT	KABBADI	DBATU, ZONEL	PVPIT, Budhgaon	16-11-2023
124	AYUSH JADHAV	PARTICIPANT	KABBADI	DBATU, ZONEL	PVPIT, Budhgaon	16-11-2023
125	AKASH DNYANDEV MANE	PARTICIPANT	KABBADI	DBATU, ZONEL	PVPIT, Budhgaon	16-11-2023
126	KARAN JADHAV	PARTICIPANT	KABBADI	DBATU, ZONEL	PVPIT, Budhgaon	16-11-2023
127	KUTALE HARISH	PARTICIPANT	KABBADI	DBATU, ZONEL	PVPIT, Budhgaon	16-11-2023
128	MATKAR AKANSHA DATTATRAY	PARTICIPANT	KABBADI	DBATU, ZONEL	PVPIT, Budhgaon	16-11-2023
129	GAIKWAD ARTI	PARTICIPANT	KABBADI	DBATU, ZONEL	PVPIT, Budhgaon	16-11-2023
130	PANVWLKAR AISHWARYA SHRAD	PARTICIPANT	KABBADI	DBATU, ZONEL	PVPIT, Budhgaon	16-11-2023
131	KAMBLE VAISHANAVI	PARTICIPANT	KABBADI	DBATU, ZONEL	PVPIT, Budhgaon	16-11-2023
132	JADHAV SANJANA	PARTICIPANT	KABBADI	DBATU, ZONEL	PVPIT, Budhgaon	16-11-2023
133	DESHMUKH AMRUTA	PARTICIPANT	KABBADI	DBATU, ZONEL	PVPIT, Budhgaon	16-11-2023

4.6.3 Participation in inter Institute Events by students of the program of Study (01/10)

YEAR 2021-2022

Co-curricular Activities

Sr.n o	Name of Students	Rank	Name of Event	Level	Event Organized Institute	Date of Eve nt
1	DADASAHEB ASHOK MASAL	PARTICIPANT	SMART INDIA HACKATHON 2022	NATIONA L	BHILAI INSTITUTE OF TECHANOLOGY, DURG	2022
2	ROHIT BHAPKAR	PARTICIPANT	SMART INDIA HACKATHON 2022	NATIONA L	BHILAI INSTITUTE OF TECHANOLOGY, DURG	2022
3	SIURABH DOMBE	PARTICIPANT	SMART INDIA HACKATHON 2022	NATIONA L	BHILAI INSTITUTE OF TECHANOLOGY, DURG	2022
4	SNEHAL PAWAR	PARTICIPANT	SMART INDIA HACKATHON 2022	NATIONA L	BHILAI INSTITUTE OF TECHANOLOGY, DURG	2022
5	SUDHANSHIV GURAV	PARTICIPANT	SMART INDIA HACKATHON 2022	NATIONA L	BHILAI INSTITUTE OF TECHANOLOGY, DURG	2022
6	SHRAYAS JADHAV	PARTICIPANT	SMART INDIA HACKATHON 2022	NATIONA L	BHILAI INSTITUTE OF TECHANOLOGY, DURG	2022
7	HASAN SHAIKH	PARTICIPANT	SMART INDIA HACKATHON 2022	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	2022
8	ANIRUDDHA SANJAY KADAM	PARTICIPANT	SMART INDIA HACKATHON 2022	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	2022
9	ARTI GAIKWAD	PARTICIPANT	SMART INDIA HACKATHON 2022	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	2022
10	AISHWARYS PANVELKAR	PARTICIPANT	SMART INDIA HACKATHON 2022	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	2022
11	GALAVE KAJAL SANJAY	PARTICIPANT	SMART INDIA HACKATHON 2022	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	2022
12	JADHAV PRAVIN	PARTICIPANT	SMART INDIA HACKATHON 2022	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	2022
13	DADASAHEB ASHOK MASAL	WINNER	SMART INDIA HACKATHON 2022	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	2022
14	ROHIT BHAPKAR	WINNER	SMART INDIA HACKATHON 2022	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	2022

15	SIURABH DOMBE	WINNER	SMART INDIA HACKATHON 2022	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	2022
16	SNEHAL PAWAR	WINNER	SMART INDIA HACKATHON 2022	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	2022
17	SUDHANSHIV GURAV	WINNER	SMART INDIA HACKATHON 2022	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	2022
18	SHRAYAS JADHAV	WINNER	SMART INDIA HACKATHON 2022	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	2022
19	AJINKY KALIDAS PANDHARPATE	PARTICIPANT	IDEATHON 2021	STATE	A.G. PATIL INSTITUTE OF TECHNOLOGY,SOLA PUR	2022

NPTEL Certification

Sr.n o	Name of Students	Course ID	Course Name	Final Score	Certificate Type		
1	ASHUTOSH BHASKAR	NPTEL21ME119S3431 0043	APPLIED THERMODYNAMI CS	60	Elite		
2	OMKAR SURESH INAMDAR	NPTEL21ME81S44310 085	FUNDAMENTAL OF MANUFACTURIN G PROCESSES	55	Successfully Completed		
3	OMKAR SURESH INAMDAR	NPTEL22GE14S441704 87	NON CONVETIONAL ENERGY RESOURCES	54	Successfully Completed		
CERT	CERTIFICATION COURSRS						
Sr.n 0	Name of Students	Course ID	Course Name	Final Score	Certificate Type		
1	ABHISHEL HANMANT LANKESHWAR	GRATE LERNING	PRINCIPALES OF MANAGEMENT		Successfully Completed		
2	AJINKY KALIDAS PANDHARPATE	GRATE LERNING	SOTWARE TESTING TUTORIAL		Successfully Completed		
3	AJINKY KALIDAS PANDHARPATE	GRATE LERNING	EXCEL FOR BIGNER		Successfully Completed		
4	AJINKY KALIDAS PANDHARPATE	GRATE LERNING	INTRODUCTION OF MACHINE LEARNING IN AWS		Successfully Completed		
5	AJINKY KALIDAS PANDHARPATE	XEV SHIKSHA	SELF CHARGED HYBRID ELECTRIC VEHICAL	_	Successfully Completed		
6	AJINKY KALIDAS PANDHARPATE	IBM	SQL AND RELATIONAL DATABASES 101	_	Successfully Completed		
	Student Courses						

Sr.n o	Name of Students	Course Duration	Course Name	Final Grade	Certificate Type
1	ANIRUDHA SANJAY KADAM	2 MONTH	CATIA	А	SUCESSFULLY COMPLETED
2	HASAN ALLAUDDIN SHAIKH	2 MONTH	CATIA	А	SUCESSFULLY COMPLETED
3	AISHWARYA SHARAD PANVELKAR	2 MONTH	CATIA	А	SUCESSFULLY COMPLETED
4	SANJANA SAJAY JADHAV	2 MONTH	CATIA	А	SUCESSFULLY COMPLETED
5	AYUSH DATTATRAYA JADHAV	2 MONTH	CATIA	А	SUCESSFULLY COMPLETED
6	RUSHIKESH DIPAK GAIKWAD	2 MONTH	CATIA	А	SUCESSFULLY COMPLETED
7	VAISHNAVI SATISH KAMBLE	2 MONTH	CATIA	А	SUCESSFULLY COMPLETED
8	ANIRUDHA SANJAY KADAM	2 MONTH	CREO 3.0	А	SUCESSFULLY COMPLETED
9	HASAN ALLAUDDIN SHAIKH	2 MONTH	CREO 3.0	А	SUCESSFULLY COMPLETED
10	AISHWARYA SHARAD PANVELKAR	2 MONTH	CREO 3.0	А	SUCESSFULLY COMPLETED
11	SANJANA SAJAY JADHAV	2 MONTH	CREO 3.0	А	SUCESSFULLY COMPLETED
12	AYUSH DATTATRAYA JADHAV	2 MONTH	CREO 3.0	А	SUCESSFULLY COMPLETED
13	RUSHIKESH DIPAK GAIKWAD	2 MONTH	CREO 3.0	А	SUCESSFULLY COMPLETED
14	VAISHNAVI SATISH KAMBLE	2 MONTH	CREO 3.0	А	SUCESSFULLY COMPLETED

Extra Co-curricular Activities

Sr.n o	Name of Students	Rank	Name of Event	Level	Event Organized Institute	Date of Eve nt
1	AYUSH DATTATRAYA JADHAV	VOLUNTEER	SATARA HILL MARATHON	NATIONA L	SATARA RUNNERS FOUNDATION	12- 12- 2021
2	RUSHIKESH DIPAK GAIKWAD	VOLUNTEER	SATARA HILL MARATHON	NATIONA L	SATARA RUNNERS FOUNDATION	12- 12- 2021
3	VAISHNAVI SATISH KAMBLE	VOLUNTEER	SATARA HILL MARATHON	NATIONA L	SATARA RUNNERS FOUNDATION	12- 12- 2021

4	VAISHNAVI SATISH KAMBLE	VOLUNTEER	SATARA HILL MARATHON	NATIONA L	SATARA RUNNERS FOUNDATION	12- 12- 2021
5	ANIRUDHA SANJAY KADAM	VOLUNTEER	SATARA HILL MARATHON	NATIONA L	SATARA RUNNERS FOUNDATION	12- 12- 2021
6	HASAN ALLAUDDIN SHAIKH	VOLUNTEER	SATARA HILL MARATHON	NATIONA L	SATARA RUNNERS FOUNDATION	12- 12- 2021
7	AISHWARYA SHARAD PANVELKAR	VOLUNTEER	SATARA HILL MARATHON	NATIONA L	SATARA RUNNERS FOUNDATION	12- 12- 2021
8	PATIL SHREYASH PRAVIN	VOLUNTEER	SATARA HILL MARATHON	NATIONA L	SATARA RUNNERS FOUNDATION	12- 12- 2021
9	KATKAR MANGESH SUNIL	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
10	SHINDE KARAN ARVIND	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
11	ROKADE SHUBHAM SURESH	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
12	attar mustan nisar	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
13	rushikesh dipak gaikwad	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
14	atharv rajendra dhane	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
15	omkar rajendra miraje	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
16	aishwarya sharad panvelkar	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
17	arti sanjay gaikwad	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
18	omkar shivaji bandgar	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
19	sanjana sambhaji jadhav	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
20	kabmale vashnavi satish	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
21	ANIRUDDHA SANJAY KADAM	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
22	GALAVE KAJAL SANJAY	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
23	KADAM SWAPNIL SURESH	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022
24	MASAL DADASAHEB ASHOK	PATRICIPANT	SHIVSWARAIJYA DIN	STATE	STATE GOVERNMENT & DTE, MUMBAI	06- 06- 2022

25	BARGE ATUL RAVINDRA	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
26	BHINTADE MRUNAL RAJAN	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
27	MARATHE VIKRANT VASANT	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
28	JADHAV SHRIYASH SHASHIKANT	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
29	NIKITA SHIVDAS KOSHTI	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
30	RAUT PRATHAMESH BRAMHADEV	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
31	KHARAT CHAITANYA LAXMAN	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
32	SHINDE SUYOG MASKUDEV	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
33	MORBALE ABHISHEK SANGRAM	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
34	PRALHAD SOMAJI DALAVI	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
35	LOHAR AJINKYA SURESH	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
36	TARADE SHRIKANT DIPAK	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
37	ATHAVE ANIKET ASHOK	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
38	TARADE SHRIDHAR DIPAK	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
39	BHOSALE VAIBHAV DATTATRAY	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
40	KALE TUSHAR VIKAS	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
41	DIPRAJ SUDHIR SHELAR	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022

42	CHALKE AKASH ANAND	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
43	THOMBARE SOURABH SANJAY	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
44	DOMBE SAURABH SHIVAJI	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
45	KADAM SWAPNIL SURESH	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
46	MASAL DADASAHEB ASHOK	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
47	GHORPADE RUSHIKESH VASANT	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
48	PHADATARE SHUBHAM RAJENDRA	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
49	JADHAV HARSHADA BALKRUSHANA	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
50	LALGE PRAJAKTA TULSHIDAS	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
51	KSHIRSAGAR ROHAN SHAHAJI	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
52	SAWANT PRAJWAL PRADEEP	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
53	BHOSALE SHUBHAM BALASAHEB	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
54	GURAV SUDHANSHU VIJAY	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
55	TILWE AADESH UTTAM	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
56	JADHAV GAURAV VIJAY	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
57	PATIL SHREYASH PRAVIN	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
58	KATKAR MANGESH SUNIL	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022

59	SHINDE KARAN ARVIND	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
60	ROKADE SHUBHAM SURESH	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
61	GHORPADE AKSHAY DATTATRAY	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
62	CHAVAN PRANAV ANIL	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
63	CHAVAN PRASANNA ANANDRAO	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
64	SAWANT SHUBHAM UMESH	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
65	GHADGE PRANIT PRAMOD	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
66	RAJOPADHYE SAMEER RAJENDRA	PARTICIPANT	SHIVJAYANTI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19- 02- 2022
67	NIKAM PRATHAMESH SANJAY	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
68	NIMBALKAR KARAN SITARAM	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
69	SAWANT AKSHATA ANIL	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
70	JADHAV MANUJA NAMDEV	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
71	PAWAR ROHAN SAHEBRAO	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
72	PHADATARE PRATIKSHA YUVRAJ	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
73	SALUNKHE PRAJYOT VILAS	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
74	SHELAR KIRAN MARUTI	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
75	BHINTADE SAGAR SHANKAR	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
76	JAGTAP PRAJWAL BALWANT	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
----	-------------------------------	-------------	--------------	---------------------	---	--------------------
77	GIRAME RUSHIKESH SHANTARAM	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
78	ATTAR DANISH HUSEN	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
79	JADHAV VISHAL RAMCHANDRA	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
80	PISAL PRASAD TATYASAO	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
81	SHAIKH FARDIN ARIF	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
82	PAWAR UMESH VILAS	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
83	BHISE NEELKANTH RAVINDRA	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
84	SALUNKHE AMAR PRAKASH	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
85	SUTAR JEEVAN KALIDAS	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
86	RASKAR PRATIK HINDURAO	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
87	SUTAR RUSHIKESH PRALHAD	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
88	SALUNKHE NIRANJAN UMESH	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
89	BAHIR VAIBHAV SHESHRAO	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
90	DANGE ABRAR JAHANGEER	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
91	DAREKAR PRASHANT LAXMAN	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
92	JADHAV RAMESH DNYANDEO	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022

93	CHAVAN TUSHAR SUBHASH	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
94	YADAV SUJIT RAMESH	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
95	PAWAR SHUBHAM SHANKAR	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
96	CHAVAN ABHISHEK SANJAY	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
97	SALUNKHE KUNAL SUNIL	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
98	DESAI AKSHAY SHANKAR	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
99	DESAI SURAJ SUNIL	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
100	YADAV SURAJ DHANAJI	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
101	SONAWANE VIRAJ SURESH	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
102	NIKAM SAURABH VIJAY	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
103	LAMBE SIDDHARTH UMESH	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
104	KAMBLE SHUBHAM BHAGWAN	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
105	JADHAV AKSHAY VILAS	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
106	GAIKWAD VAIBHAV JAGANNATH	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
107	FARAS SEHARAJ RAFIQMAHMUD	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
108	JAMDADE SOHAM RAMESH	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
109	TAMBOLI MUIN ALIM	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022

110	SABALE SHUBHAM DADASO	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
111	BHISE SAGAR MOHAN	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
112	PAWAR VIJAY BHIMARAO	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
113	DHAYGUDE KOMAL RAGHUNATH	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
114	JADHAV AMIT ANKUSH	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
115	YADAV ANISH PRABHAKAR	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
116	MAHADIK PRASAD MUKUND	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
117	DHEKALE YOGESH VISHNU	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
118	AGAWANE JAYSING ANIL	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
119	MAHADIK SAINATH MUKUND	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022
120	PATIL AMIT TUKARAM	PARTICIPANT	TARUNAI 2022	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	02- 05- 2022

YEAR 2020-2021

Co-curricular Activities

Sr.no	Name of Students	Rank	Name of Event	Level	Event Organized Institute	Date of Event
1	OMKAR ANIL DHOLE.	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
2	BHOITE RUPESH POPATRAO	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
3	PRATIKSHA SURYAWANS HI	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020

4	DIXIT SURAJ BALCHANDR A	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
5	DUBAL NANDKUMAR SANJAY	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
6	SHUBHAM PATIL	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
7	OMKAR YADAV	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
8	ANIKET YADAV	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
9	MAYUR KHUSPE	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
10	ASMITA BHOSALE	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
11	SANKET SHINDE	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
12	CHANDRASEN KADAM	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
13	VAIBHAV VASANT MOHITE	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
14	SAKSHI ANIL BHOSALE	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
15	AKSHAY CHAVAN	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
16	DHANRAJ GOGAWALE	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
17	GANESH KADAM	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
18	JEEVAN PATIL	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
19	ONKAR PIMPLE	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
20	PRATIK RAMESH DHANAVE	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020

21	RAJJIN BAGWAN	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
22	SHARAD PATIL	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
23	SHUBHAM SATISH SATHE	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
24	VRUSHABH VASANT SAPKAL	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
25	WAJE SIDDHANT SANJAY	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
26	YOGESH KANKEKAR	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
27	SATYAM PRAKASH KUMBHAR	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
28	SUSHANT RAVINDRA BHOSALE	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
29	NIKHIL VISHNU SAWANT	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
30	VAIBHAV ANANDA PAWAR	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
31	ANIT BALWANT MORE	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
32	VIKAS SHIVAJI HIRUGADE	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
33	SURAJ BAJIRAO JADHAV	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
34	AKSHATA BABANRAO SHEDGE.	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
35	NIKAM AKASH SUNIL	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
36	AKASH CHAVAN	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
37	VISHVAJEET VIJAY VIBHUTE	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020

38	NIKAM AKASH BABURAO	PARTICIPATION	CNC PROGRAMMING	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	29/6/2020 TO 21/07/2020
39	BARGE ATUL RAVINDRA	PARTICIPATION	PRAYAG 2021	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	09-04-2021
40	BHINTADE MRUNAL RAJAN	PARTICIPATION	PRAYAG 2021	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	09-04-2021
41	MARATHE VIKRANT VASANT	PARTICIPATION	PRAYAG 2021	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	09-04-2021
42	ATHAVE ANIKET ASHOK	PARTICIPATION	PRAYAG 2021	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	09-04-2021
43	MATKAR AKANSHA DATTATRAY	PARTICIPATION	PRAYAG 2021	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	09-04-2021
44	KAJAL SANJAY GALVE	PARTICIPATION	PRAYAG 2021	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	09-04-2021
45	GHORPADE RUSHIKESH VASANT	PARTICIPATION	PRAYAG 2021	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	09-04-2021
46	POL YOGESH SHIVAJI	PARTICIPATION	PRAYAG 2021	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	09-04-2021
47	MUJAWAR NAYUM AJIM	PARTICIPATION	PRAYAG 2021	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	09-04-2021
48	PAWAR VAIBHAV RAJARAM	PARTICIPATION	PRAYAG 2021	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	09-04-2021
49	KANASE RAVIRAJ DADASAHEB	PARTICIPATION	PRAYAG 2021	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	09-04-2021
50	KAMTHE SHRIRAM SHASHIKANT	PARTICIPATION	PRAYAG 2021	INSTITUT E	ARVIND GAVALI COLLEGE OF ENGINEERING,SATA RA	09-04-2021

NPTEL Examination 2020-2021

Sr.no	Name of Students	Course ID	Course Name	Final Score	Certificate Type
1	VISHAL DATTATRAY BALLAL	NPTEL21ME30S14300 145	MANUFACTURING PROCESS TECHNOLOGY- I&II	64	ELITE
2	MASAL DADASAHEB ASHOK	NPTEL21ME30S24020 653	MANUFACTURING PROCESS TECHNOLOGY- I&II	59	SUCESSFULLY COMPLETED

3	CHAITANYA LAXMAN KHARAT	NPTEL21ME30S24300 377	MANUFACTURING PROCESS TECHNOLOGY- I&II	52	SUCESSFULLY COMPLETED
4	TUSHAR VIKAS KALE	NPTEL21ME30S24300 446	MANUFACTURING PROCESS TECHNOLOGY- I&II	48	SUCESSFULLY COMPLETED
5	RUSHIKESH VASANT GHORPADE	NPTEL21ME30S24300 452	MANUFACTURING PROCESS TECHNOLOGY- I&II	59	SUCESSFULLY COMPLETED
6	THOMBARE SOURABH SANJAY	NPTEL21ME30S24300 389	MANUFACTURING PROCESS TECHNOLOGY- I&II	58	SUCESSFULLY COMPLETED
7	RAMESH DAYANAND JADHAV	NPTEL21ME30S14190 081	MANUFACTURING PROCESS TECHNOLOGY- I&II	55	SUCESSFULLY COMPLETED
8	PRATHMESH SANJAY NIKAM	NPTEL21ME30S24300 419	MANUFACTURING PROCESS TECHNOLOGY- I&II	49	SUCESSFULLY COMPLETED
9	MANGESH SUNIL KATKAR	NPTEL21ME30S24300 443	MANUFACTURING PROCESS TECHNOLOGY- I&II	48	SUCESSFULLY COMPLETED
10	JAGTAP RUSHIKESH MADHUKAR	NPTEL21ME69S24300 495	IC ENGINES AND GAS TURBINES	53	SUCESSFULLY COMPLETED
11	GAIKWAD ANIKET SACHIN	NPTEL21ME69S24300 498	IC ENGINES AND GAS TURBINES	53	SUCESSFULLY COMPLETED
12	PANASKAR PRATIK CHANDRAKA NT	NPTEL21ME69S14300 288	IC ENGINES AND GAS TURBINES	46	SUCESSFULLY COMPLETED
13	PARAMANE ARTI DEVIDAS	NPTEL21ME16S24300 487	INSPECTION AND QUALITY CANTROL IN MANUFACTURING	50	SUCESSFULLY COMPLETED
14	AISHWARYA CHANDRAKA NT SALUNKHE	NPTEL21ME16S24300 490	INSPECTION AND QUALITY CANTROL IN MANUFACTURING	58	SUCESSFULLY COMPLETED
15	ADHISHRI SHIVAJI PAWAR	NPTEL21ME16S24300 493	INSPECTION AND QUALITY CANTROL IN MANUFACTURING	58	SUCESSFULLY COMPLETED
16	SHRAD PRAKASH ASWALE	NPTEL21DE02S24190 627	FUNDAMENTAL OF AUTOMOTIVE SYSTEM	56	SUCESSFULLY COMPLETED
17	SHRAD PRAKASH ASWALE	NPTEL21GE04S14190 298	NONCONVATION AL ENERGY RESOURCES	57	SUCESSFULLY COMPLETED
18	AKASH NARENDRA BORATE	NPTEL21GE04S24300 474	NONCONVATION AL ENERGY RESOURCES	51	SUCESSFULLY COMPLETED
19	VAIBHAV DATTATRAY BHOSALE	NPTEL21ME04S14300 188	METAL CUTTING AND MACHINE TOOLS	42	SUCESSFULLY COMPLETED

Extra Co-curricular	Activities	2020-2021
---------------------	------------	-----------

Sr.no	Name of Students	Rank	Name of Event	Level	Event Organized Institute	Date of Event
1	ABHIJEET SUNIL BHOSALE	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
2	ABHIJIT SARJERAO SHINDE	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
3	ADITYA RAVINDRA PATIL	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
4	AISHWARYA SHARAD PANVELKAR	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
5	AMAN MAHADEV MAHADIK	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
6	AMRUTA ANKUSH DESHMUKH	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
7	ANIRUDHA SANJAY KADAM	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
8	ARATI SANJAY GAIKWAD	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
9	AVINASH POPAT CHAVAN	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
10	DIGVIJAY KIRAN GHORPADE	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
11	POWAR ASHUTOSH ANIL	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
12	KALKUNDRIK AR RAHUL MARUTI	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
13	JAGTAP ADITYA SUNIL	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
14	GHADAGE KISHOR LAXMAN	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
15	BHOSALE NIKHIL BHAUSO	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021

16	GHORPADE HARSHADA RAMDAS	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
17	JAGTAP RUSHIKESH MADHUKAR	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
18	PUSTAKE UTKARSH RAVINDRA	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
19	GAIKWAD ANIKET SACHIN	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
20	PANASKAR PRATIK CHANDRAKA NT	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
21	KUMBHAR GANESH SURESH	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
22	BHOSALE PRATHAMESH PRAMOD	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
23	PAWAR RAJESH RAMCHANDR A	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
24	DESAI MUSKAN NISAR	PARTICIPANT	SHIVJAYANTI 2021	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	19-02-2021
25	MASAL DADASAHEB ASHOK	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
26	OMKAR SHIVAJI BANDGAR	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
27	AMAN MAHADEV MAHADIK	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
28	KADAM ANIRUDHA SANJAY	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
29	PANVELKAR AISHWARYA SHARAD	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
30	GHORPADE RUSHIKESH VASANT	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
31	SANJANA SAMBAJI JADHAV	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
32	AKSHATA ANIL SAWANT	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021

33	PRATIK SANJAY MANE	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
34	KUTALE HARISH SUNIL	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
35	KOLE LAKHAN JAYWANT	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
36	JADHAV PRAVIN ANKUSH	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
37	CHAVAN AVINASH POPAT	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
38	PANDERPATT E AJINKYA KALIDAS	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
39	JADHAV RUSHIKESH MAHADEV	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
40	OMKAR ANIL DHOLE	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
41	NIKAM PRATHMESH SANJAY	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
42	AJINKYA JEVAN PAWAR	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
43	AYUSH DATTATRAY JADHAV	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
44	SHINDE OMKAR SHANTARAM	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
45	CHAVAN ADITYA SUDHAKAR	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
46	BOHITE DHIRAJ DADASO	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
47	YADAV YEASH SUHAS	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
48	UTKARSH RAVINDRA PUSTAKE	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
49	KHADNAKE RUSHABH SANDEEP	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021

50	JAGTAP ADITYA SUNIL	PARTICIPANT	BLOOD DONATION CAMP	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	22-02-2021
51	PARAMANE ARTI DEVIDAS	PARTICIPANT	MATATHI RAJBHASHA DIVAS	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	27-02-2022
52	AISHWARYA CHANDRAKA NT SALUNKHE	PARTICIPANT	MATATHI RAJBHASHA DIVAS	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	27-02-2022
53	ADHISHRI SHIVAJI PAWAR	PARTICIPANT	MATATHI RAJBHASHA DIVAS	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	27-02-2022
54	SHRAD PRAKASH ASWALE	PARTICIPANT	MATATHI RAJBHASHA DIVAS	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	27-02-2022
55	UTKARSH RAVINDRA PUSTAKE	PARTICIPANT	MATATHI RAJBHASHA DIVAS	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	27-02-2022
56	PANDERPATT E AJINKYA KALIDAS	PARTICIPANT	MATATHI RAJBHASHA DIVAS	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	27-02-2022
57	SHINDE OMKAR SHANTARAM	PARTICIPANT	MATATHI RAJBHASHA DIVAS	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	27-02-2022
58	PANVELKAR AISHWARYA SHARAD	PARTICIPANT	MATATHI RAJBHASHA DIVAS	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	27-02-2022
59	SANJANA SAMBAJI JADHAV	PARTICIPANT	MATATHI RAJBHASHA DIVAS	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	27-02-2022
60	AKSHATA ANIL SAWANT	PARTICIPANT	MATATHI RAJBHASHA DIVAS	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	27-02-2022
61	PARAMANE ARTI DEVIDAS	PARTICIPANT	World Menstrual Hygine Day Programm	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-05-2022
62	AISHWARYA CHANDRAKA NT SALUNKHE	PARTICIPANT	World Menstrual Hygine Day Programm	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-05-2022
63	ADHISHRI SHIVAJI PAWAR	PARTICIPANT	World Menstrual Hygine Day Programm	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-05-2022
64	PANVELKAR AISHWARYA SHARAD	PARTICIPANT	World Menstrual Hygine Day Programm	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-05-2022
65	SANJANA SAMBAJI JADHAV	PARTICIPANT	World Menstrual Hygine Day Programm	INSTITUT E LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-05-2022

5.1 Student Faculty Ratio (SFR)

(20)

		Qualif	ication			sor/					Academic R	esearch)))	ntract)
Member				stitution		as Profess sor	stitution		ation	IS		ing the	/N) is (" Nc	egular/Co
Name of the Faculty ^N	Degree (highest degree)	University	Year of attaining higher qualification	Association with the In-	Designation	Date on which Designated Associate Profess	Date of Joining the Inc	Department	Specializ	Research Paper Publication	Ph.D. Guidance	Faculty Receiving Ph.D. duri Assessment Years	Currently Associated (Y Date of Leaving (In case Currently Associated	Nature of Association (R
Dr. Vilas A. Pharande	PHD	Pune University	2011	Y	Profeesor		02-05-2019	MECH	Heat Power	29	05		Y	Regular
Avinash Namdev Khadtare	Ph.D.	DBATU	05/05/2022	Y	Associate Professor		20/04/2023	MECH	Manufactu ring	5	NA		Y	Regular
Mr.Mahammadsa Iman Warimani	Ph.D.	IIUM- Malaysia (Malaysian Govt. Uni) QS Rank less than 500 for mech dept	06/01/2023	Y	Associate Professor	01/07/20 22	01.07.2022	MECH	Thermal, CFD and Aerospace	5	NA		Y	Regular
M Sonachalam	Ph.D.	Annamalai University	11/05/2022	Y	Associate Professor		19/04/2023	MECH	I.C. Engine	11	NA		Y	Regular
Prasanth Narayan	Ph.D.	Annamalai University	Sept 2023	Y	Associate Professor		01/08/2023	MECH	Env. Engg	03	NA		Y	Regular
Sadanand Sarapure	Ph.D.	VTU	18/03/2019	Y	Associate Professor		02/05/2023	MECH	Materials Engineerin g	10	NA		Y	Regular
Suraj Sajjan Ghadage	M.Tech	Veltech University	28/07/2014	Y	Asst.Prof		15-06-2015	MECH	IC Engine	7	NA		Y	Regular
Suyog Sambhaji Patil	M.E	Shivaji University	24/02/2015	Y	Asst.Prof		1/6/2019	MECH	Heat Power	5	NA		Y	Regular
Tushar Vilas Shende	ME	Shivaji University	02/08/2017	Y	Asst.Prof		09/10/2023	MECH	Prod		NA		Y	Regular
Ravi Raju Kambale	M.Tech	VJTI University	25/08/2011	Y	Asst.Prof		29-12-2011	MECH	Prod	1	NA		Y	Regular
Suhas Prakashrao Patil	M.Tech	Shivaji University	22/07/2014	Y	Asst.Prof		29-06-2015	MECH	CAD/CA M	3	NA	-	Y	Regular
Arjun Arun Kadam	M.Tech	Shivaji University	14/07/2016	Y	Asst.Prof		15-06-2016	MECH	Design	7	NA		Y	Regular
Ankur Vilas Kambale	M.Tech	Shivaji University	27/07/2017	Y	Asst.Prof		12/06/2017	MECH	Design	4	NA		Y	Regular
Manisha Nilkanth	ME	Shivaji University	26/08/2015	Y	Asst.Prof		1/1/2021	MECH	Prod	3	NA		Y	Regular

A.Y. 2023-24

Alatkar												
Mayuresh Ejaram Vankhande	ME	Shivaji University	05/08/2015	Y	Asst.Prof	1/12/2018	MECH	Design	2	NA	Y	Regular
Ganesh Kishor Babar	M.Tech	DBATU	16/09/ 2019	Y	Asst.Prof	1/1/2020	MECH	Heat Power	2	NA	Y	Regular
Nikhil Vilas Ghadage	M.Tech	DBATU	16/09/ 2019	Y	Asst.Prof	24/08/2023	MECH	Heat Power	1	NA	Y	Regular
Miss. Priya Yashwant Kuthe	M.Tech	Shivaji University	01/08/2019	Y	Asst.Prof	12/10/2021	MECH	CHEMIC AL	1	NA	Y	Regular
Abhijeet Tanajirao Bhosale	M.E/M. Tech	DBATU	11/11/2013	Y	Asst.Prof	11/04/2023	MECH	Design	1	NA	Y	Regular
Suraj Hanmant .Jamdade	M.T.ec h	DBATU	MTech	Y	Asst.Prof	01/07/2023	Mech	Heat Power	2	NA	Y	Regular
Mahesh Vishnu Matkar	M.Tech	VJTI University	04/10/2010	Y	Asst.Prof	01/07/2013	MECH	Prod	1	NA	Y	Regular

No. of Faculty in the Department (F) = 20

A.Y. 2022-23

		Qualif	ication	I		essor/	_				Academic R	esearch	0	
Aembei				stitutio		as Profe	titution		ation	IS		ng the	(N) iated is	tract)
Name of the Faculty N	Degree (highest degree)	University	Year of attaining higher qualification	Association with the Ins	Designation	Date on which Designated a Associate Profess	Date of Joining the Ins	Department	Specializa	Research Paper Publication	Ph.D. Guidance	Faculty Receiving Ph.D. duri Assessment Years	Currently Associated (Y Date of Leaving (In case Currently Associ (" No")	Nature of Assoc (Regular/Con
Dr. Vilas A. Pharande	PHD	Pune University	2011	Y	Professor		02-05-2019	MECH	Heat Power	29	05		Y	Regular
Dr.Ananda Bhimrao Gholap	Ph.D.	Pune University	29 /01/2021	Y	Professor	01/07/20 21	01.07.2021	MECH	Production	06	NA		NO (31/07/2023)	Regular
Dr.Sayed Ahmed Imran Bellary	Ph.D.	IIT Madras	12/05/2015	Y	Professor	01/08/20 22	01.08.2022	MECH	Design and Thermal	23	NA		NO (31/01/2023)	Regular
Dr.Abhay Arjun Desai	Ph.D.	Pune University	02/12/2021	Y	Associate Professor	01/04/20 22	01.04.2022	MECH	Heat Power	0	NA		NO (31/05/2023)	Regular
Mr.Mahammadsa Iman Warimani	Ph.D.	IIUM- Malaysia (Malaysian Govt. Uni) QS Rank less than 500 for mech dept	06/01/2023	Y	Associate Professor	01/07/20 22	01.07.2022	MECH	Thermal, CFD and Aerospace	5	NA	Y	Y	Regular
Ravi Raju Kambale	M.Tech	VJTI University	25/08/2011	Y	Asst.Prof		29-12-2011	MECH	Prod	1	NA		Y	Regular
Suhas Prakashrao Patil	M.Tech	Shivaji University	22/07/2014	Y	Asst.Prof		29-06-2015	MECH	CAD/CA M	3	NA	-	Y	Regular
Mahesh Vishnu Matkar	M.Tech	VJTI University	04/10/2010	Y	Asst.Prof		01/07/2013	MECH	Prod	1	NA		Y	Regular
Arjun Arun Kadam	M.Tech	Shivaji University	14/07/2016	Y	Asst.Prof		15-06-2016	MECH	Design	7	NA		Y	Regular

Ankur Vilas Kambale	M.Tech	Shivaji University	27/07/2017	Y	Asst.Prof	12/06/2017	MECH	Design	4	NA	Y	Regular
Pratik Manohar Tambe	ME	Shivaji University	31/07/2017	Y	Asst.Prof	1/7/2019	MECH	Prod	1	NA	No (02/05/2023)	Regular
Manisha Nilkanth Alatkar	ME	Shivaji University	26/08/2015	Y	Asst.Prof	1/1/2021	MECH	Prod	3	NA	Y	Regular
Mayuresh Ejaram Vankhande	ME	Shivaji University	05/08/2015	Y	Asst.Prof	1/12/2018	MECH	Design	2	NA	Y	Regular
Ganesh Kishor Babar	M.Tech	DBATU	16/09/ 2019	Y	Asst.Prof	1/1/2020	MECH	Heat Power	2	NA	Y	Regular
Miss.Mrunalini Uttam Patil	M.Tech	Shivaji University	12/01/2022	Y	Asst.Prof	21/11/2022	MECH	CAD/CA M	2	NA	NO (31/05/2023)	Regular
Miss. Priya Yashwant Kuthe	M.Tech	Shivaji University	01/08/2019	Y	Asst.Prof	12/10/2021	MECH	CHEMIC AL	1	NA	Y	Regular
Suraj Sajjan Ghadage	M.Tech	Veltech University	28/07/2014	Y	Asst.Prof	15-06-2015	MECH	IC Engine	7	NA	Y	Regular
Suyog Sambhaji Patil	M.E	Shivaji University	24/02/2015	Y	Asst.Prof	1/6/2019	MECH	Heat Power	5	NA	Y	Regular
Pradnyawant Krishna Parase	ME	Solapur University	06/04/2015	N	Asst.Prof	20-01-2020	MECH	Design	5	NA	NO (02/05/2023)	Regular
Amol Dnyaneshwar Ghorpade	ME	SPPU	10/10/2017	Y	Asst.Prof	1/10/2021	MECH	Heat Power	2	NA	NO (02/05/2023)	Regular
Abhijeet Tanajirao Bhosale	M.E/M. Tech	DBATU	11/11/2013	Y	Asst.Prof	11/04/2023	MECH	Design	1	NA	Y	Regular
Avinash Namdev Khadtare	Ph.D.	DBATU	05/05/2022	Y	Associate Professor	20/04/2023	MECH	Manufactu ring	5	NA	Y	Regular
M Sonachalam	Ph.D.	Annamalai University	11/05/2022	Y	Associate Professor	19/04/2023	MECH	I.C. Engine	11	NA	Y	Regular
Sadanand Sarapure	Ph.D.	VTU	18/03/2019	Y	Associate Professor	02/05/2023	MECH	Materials Engineerin g	10	NA	Y	Regular
Mahesh Jivraj Shinde	M.Tech	VJTI University	30/07/2014	Y	Asst.Prof	30-06-2014	MECH	CAD/CA M	2	NA	No (30-04-2023)	Regular
Sandeep RajaramPawar	M.Tech	Shivaji University	22/08/2016	Y	Asst.Prof	1/9/2017	MECH	Automobil e	2	NA	No (02/05/2023)	Regular

No. of Faculty in the Department (F) = 20

A.Y. 2021-22

H		Quali	fication	ц		èssor/	u				Academic Re	esearch	s	
Name of the Faculty Membe	Degree (highest degree)	University	Y ear of attaining higher qualification	Association with the Institutio	Designation	Date on which Designated as Pro Associate Professor	Date of Joining the Institution	Department	Specialization	Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years	Currently Associated (Y/N) Date of Leaving (In case Currently Associated i (* No")	Nature of Association (Regular/Contract)
Dr. Vilas A. Pharande	PHD	Pune University	2011	Y	Professor		02-05-2019	MECH	Heat Power	29			Y	Regular

Dr.Ananda Bhimrao Gholap	Ph.D.	Pune University	29 /01/2021	Y	Professor	01/07/20 21	01.07.2021	MECH	Producti on	06	NA		Y	Regular
Dr.Abhay Arjun Desai	Ph.D.	Pune University	02/12/2021	Y	Associate Professor	01/04/20 22	01.04.2022	MECH	Heat Power	0	NA		Y	Regular
Ravi Raju Kambale	M.Tech	VJTI University	25/08/2011	Y	Asst.Prof		29-12-2011	MECH	Prod	1	NA		Y	Regular
Suhas Prakashrao Patil	M.Tech	Shivaji University	22/07/2014	Y	Asst.Prof		29-06-2015	MECH	CAD/CA M	3	NA	-	Y	Regular
Mahesh Vishnu Matkar	M.Tech	VJTI University	04/10/2010	Y	Asst.Prof		01/07/2013	MECH	Prod	1	NA		Y	Regular
Arjun Arun Kadam	M.Tech	Shivaji University	14/07/2016	Y	Asst.Prof		15-06-2016	MECH	Design	7	NA		Y	Regular
Ankur Vilas Kambale	M.Tech	Shivaji University	27/07/2017	Y	Asst.Prof		12/06/2017	MECH	Design	4	NA		Y	Regular
Pratik Manohar Tambe	ME	Shivaji University	31/07/2017	Y	Asst.Prof		1/7/2019	MECH	Prod	1	NA		Y	Regular
Manisha Nilkanth Alatkar	ME	Shivaji University	26/08/2015	Y	Asst.Prof		1/1/2021	MECH	Prod	3	NA		Y	Regular
Mayuresh Ejaram Vankhande	ME	Shivaji University	05/08/2015	Y	Asst.Prof		1/9/2017	MECH	Design	2	NA		Y	Regular
Ganesh Kishor Babar	M.Tech	DBATU	16/09/ 2019	Y	Asst.Prof		1/1/2020	MECH	Heat Power	2	NA		Y	Regular
Amey Patwardhan	M.Tech	Symbiosis Internatiio nal	01/01/2020	Y	Asst.Prof		01/01/2020	MECH	CAD/CA M	1	NA		No (02/05/2022)	Regular
Miss. Priya Yashwant Kuthe	M.Tech	Shivaji University	01/08/2019	Y	Asst.Prof		12/10/2021	MECH	CHEMI CAL	1	NA		Y	Regular
Suraj Sajjan Ghadage	M.Tech	Veltech University	28/07/2014	Y	Asst.Prof		15-06-2015	MECH	IC Engine	7	NA		Y	Regular
Sandeep Rajaram Pawar	M.Tech	Shivaji University	22/08/2016	Y	Asst.Prof		1/9/2017	MECH	Automob ile	2	NA		Y	Regular
Suyog Sambhaji Patil	M.E	Shivaji University	24/02/2015	Y	Asst.Prof		1/6/2019	MECH	Heat Power	5	NA		Y	Regular
Pradnyawant Krishna Parase	ME	Solapur University	06/04/2015	N	Asst.Prof		19-10-2020	MECH	CAD/CA M	5	NA		Y	Regular
Digvijay Babaso Patil	ME	Shivaji University	07/09/2019	N	Asst.Prof		20/04/2020		Design	0	NA		N (30/07/2022)	Regular
Amol Dnyaneshwar Ghorpade	ME	SPPU	10/10/2017	Y	Asst.Prof		1/10/2021	MECH	Heat Power	2	NA		Y	Regular
SatishSubrao Kadam	PhD	Pune University	10/03/2015	Y	Professor	01/10/20 21	01/10/2021	MECH	Heat Power	0	NA		No (30/04/2022)	Regular
Pranesh Balaso Bamankar	M.Tech	Shivaji University	25/07/2013	N	Asst.Prof		15-06-2015	MECH	Prod	12	NA		No (30-04- 2022)	Regular
Amol Bindumadhav Kharge	ME	Pune University	26/11/2015	Y	Asst.Prof		1/10/2021	MECH	Design	4	NA		No (30-04- 2022)	Regular
Mahesh Jivraj Shinde	M.Tech	VJTI University	30/07/2014	Y	Asst.Prof		30-06-2014	MECH	CAD/CA M	2	NA		Y	Regular
Amay Shashikant Kulkarni	M.Tech	Shivaji University	20/07/2015	Y	Asst.Prof		21-09-2021	MECH	Prod	11	NA		N (30/07/2022)	Regular
Vikas Sarjerao Dhane	ME	Pune University	09/08/2016	N	Asst.Prof		01-04-2020	MECH	Heat Power	2	NA		N 31-08-2021	Regular
Anand Sudhir Shivade	ME	Shivaji University	29/09/2014	N	Asst.Prof		01-06-2019	MECH	Product D.	11	NA		N 31-07-2021	Regular

Table B.5

No. of Faculty in the Department (F)=23

A.Y. 2020-21

		Qualificati	on			fessor/				Acad	lemic Researc	h	is.	ciation
			Ier	ι		as Prof						ng the	ciated	Assoc
Name of the Faculty Member	Degree (highest degree)	University	Year of attaining high qualification	Association with the Institution	Designation	Date on which Designated Associate Professor	Date of Joining the Institution	Department	Specialization	Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. duri Assessment Years	Currently Associated (Y/N) Date of Leaving (In case Currently Asso ('' No'')	Nature of (Regular/Contract)
Dr. Vilas A. Pharande	PHD	Pune University	2011	Y	Profeesor		02-05-2019	MECH	Heat Power	29	5		Y	Regular
Ravi Raju Kambale	M.Tech	VJTI University	25/08/201 1	Y	Asst.Prof		29-12-2011	MECH	Prod	1	NA		Y	Regular
Suhas Prakashrao Patil	M.Tech	Shivaji University	22/07/201 4	Y	Asst.Prof		29-06-2015	MECH	CAD/CAM	3	NA		Y	Regular
Mahesh Vishnu Matkar	M.Tech	VJTI University	04/10/201 0	Y	Asst.Prof		01/07/2013	MECH	Prod	1	NA		Y	Regular
Arjun Arun Kadam	M.Tech	Shivaji University	14/07/201 6	Y	Asst.Prof		15-06-2016	MECH	Design	7	NA		Y	Regular
Ankur Vilas Kamble	M.Tech	Shivaji University	27/07/201 7	Y	Asst.Prof		12/06/2017	MECH	Design	4	NA		Y	Regular
Pratik Manohar Tambe	M.Tech	Shivaji University	31/07/201 7	Y	Asst.Prof		1/7/2019	MECH	Prod	1	NA		Y	Regular
Manisha NilkanthAlatk ar	ME	Shivaji University	26/08/201 5	Y	Asst.Prof		1/1/2021	MECH	Prod	3	NA		Y	Regular
Mayuresh Ejaram Vankhande	ME	Shivaji University	05/08/201 5	Y	Asst.Prof		1/9/2017	MECH	Design	2	NA		Y	Regular
Ganesh Kishor Babar	M.Tech	DBATU	16/09/ 2019	Y	Asst.Prof		1/1/2020	MECH	Heat Power	2	NA		Y	Regular
Amey Patwardhan	ME	Symbiosis Internatiio nal	01/01/202 0	Y	Asst.Prof		01/01/2020	MECH	CAD/CAM	2	NA		Y	Regular
Suraj Sajjan Ghadage	M.Tech	Veltech University	28/07/201 4	Y	Asst.Prof		15-06-2015	MECH	IC Engine	7	NA		Y	Regular
Sandeep RajaramPawar	M.Tech	Shivaji University	22/08/201 6	Y	Asst.Prof		1/9/2017	MECH	Auto	2	NA		Y	Regular
Suyog Sambhaji Patil	M.E	Shivaji University	24/02/201 5	Y	Asst.Prof		1/6/2019	MECH	Heat Power	5	NA		Y	Regular
Pradnyawant Krishna Parase	ME	Solapur University	06/04/201 5	N	Asst.Prof		19-10-2020	MECH	CAD/CAM	5	NA		Y	Regular
Digvijay BabasoPatil	M.Tech	DBATU	07/09/201 9	Y	Asst.Prof		20/01/2020		Design		NA		Y	Regular

Pranesh BalasoBamank ar	M.Tech	Shivaji University	25/07/201 3	Ν	Asst.Prof	15-06-2015	MECH	Prod	12	NA	Y	Regular
Mahesh Jivraj Shinde	M.Tech	VJTI University	30/07/201 4	Y	Asst.Prof	30-06-2014	MECH	CAD/CAM	2	NA	Y	Regular
Pranod Raghunath Nikam	ME	SPPU University	31/03/201 7	Y	Asst.Prof	01-07-2018	MECH	Heat Power	2	NA	N (31/08/2021)	Regular
Kaustubh Dattatray Agashe	M.Tech	Bharti University	14/05/202 1	Y	Asst.Prof	01/02/2021		CAD/CAM	0	NA	N (31/03/2021)	
SwapnilRamch andra Choudhari	ME	Shivaji University	03/07/199 9	Y	Asst.Prof	01/06/2020		Automobil e	0	NA	N (03/05/2021)	
Vikas SarjeraoDhane	ME	Pune University	09/08/201 6	Ν	Asst.Prof	01-02-2021	MECH	Heat Power	2	NA	N (30/07/2021)	Regular
Anand Sudhir Shivade	ME	Shivaji University	29/09/201 4	Ν	Asst.Prof	1/6/2019	MECH	Product D.	11	NA	N (30/07/2021)	Regular
Pradip Krishnaji Waghmode	M.Tech	Shivaji University	14/07/201 6	N	Asst.Prof	23/01/2017	MECH	Automobil e	4	NA	N (31/03/2021)	Regular
Sandeep RameshJadhav	ME	Shivaji University	26/02/201 6	Ν	Asst.Prof	6/6/2016	MECH	Prod	1	NA	N (31/03/2021)	Regular
Kamlesh ArjunlalKuma wat	ME	SPPU	20 Oct 2016	N	Asst.Prof	20-06-2017	MECH	Design	2	NA	N (31/03/2021)	Regular
Sagar RajaramBalip	M.Tech	NIT Surat	27/06/201 2	Y	Asst.Prof	4/1/2019	MECH	CAD CAM	00	NA	N (31/03/2021)	Regular

No. of Faculty in the Department (F) = 20

Note: Please provide details for the faculty of the department, cumulative information for all the shifts for all academic years starting from current year in above format in Annexure - II.

5.1 Student-Faculty Ratio (SFR)

(20)

(To be calculated at Department Level)

No. of UG Programs in the Department (n): <u>1</u> No. of PG Programs in the Department (m): <u>1</u> No. of Students in UG 2nd Year=u1 No. of Students in UG 3rd Year=u2 No. of Students in UG 4th Year= u3 No. of Students in PG 1st Year= p1 No. of Students in PG 2nd Year=p2

No. of Students = Sanctioned Intake + Actual admitted lateral entry students

(The above data to be provided considering all the UG and PG programs of the department)

S=Number of Students in the Department = UG1 + UG2 + ... + UGn + PG1 + ... PGn

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Student Teacher Ratio (STR) = S / F

Year	2023-24	CAY (2022-23)	CAYm1	CAYm2
u1.1	90+6	120+3	120+10	120+9
u1.2	120+3	120+10	120+9	120+6
u1.3	120+10	120+9	120+6	120+14
UG1	u1.1+u1.2+u1.3	u1.1+u1.2+u1.3	u1.1+u1.2+u1.3	u1.1+u1.2+u1.3
u _n .1				
u _n .2				
u _n .3				
UGn	$u_{n.}1+u_{n.}2+u_{n.}3$	$u_{n}.1+u_{n}.2+u_{n}.3$	$u_{n}.1+u_{n}.2+u_{n}.3$	$u_{n}.1+u_{n}.2+u_{n}.3$
p1.1	18	18	18	18
p1.2	18	18	18	18
PG1	p1.1+p1.2	p1.1+p1.2	p1.1+p1.2	p1.1+p1.2
•••••				
pm.1				
pm.2				
PGm	pn.1+pn.2	pn.1+pn.2	pn.1+pn.2	pn.1+pn.2
Total No. of Students in the Department (S)	UG1 + UG2+ +UGn + PG1+ PGn=385	UG1 + UG2+ +UGn + PG1+ PGn=415	UG1 + UG2 + +UGn + PG1+ + PGn=421	UG1 + UG2 + +UGn +PG1+ + PGn=425
No. of Faculty in the Department (F)	F1=20	F1=20	F2=23	F3=20
Student Faculty	SFR1=S1/F1=	SFR1=S1/F1=	SFR2= S2/F2=18.3	SFR3=
Ratio (SFR)	19.25	20.75		S3/F3=21.25
Average SFR		SFR=(SFR	1+SFR2+SFR3)/3=20.1	

Table 5.1.1 Student-Faculty Ratio

Note: Marks to be given proportionally from a maximum of 20 to a minimum of

10 for average SFR between 15:1 to 25:1, and zero for average SFR higher than

25:1. Marks distribution is given as below:

<=15	-	20Marks	
<=17	-	18Marks	
<=19 <=21	-	16Marks 14Marks	
<=23 <=25	-	12Marks 10Marks	
>25.0	_	0 Marks	

All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the Faculty Student Ratio. However, following will be ensured in case of contractual faculty:

- **1.** Shall have the AICTE prescribed qualifications and experience.
- **2.** Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
- Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit

Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY	20	00
CAYm1	23	00
CAYm2	20	00

Table 5.1.1	Total	regular and	d contractual	faculty
				•

(25)

5.2 Faculty Cadre Proportion

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

- F1: Number of Professors required = 1/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1
- F2: Number of Associate Professors required = 2/9 x Number of Faculty required to

comply with 20:1 Student-Faculty ratio based on no. of students (N) as per5.1

F3: Number of Assistant Professors required = 6/9 x Number of Faculty required to

comply with 20:1 Student-Faculty ratio based on no. of students (N) as per5.1

	Professors		Associate	Professors	Assistant Professors		
Year	Required F1	Available	Required F2	Available	Required F3	Available	
CAY (2022-23)	2.31	01	4.61	01	13.83	18	
CAYm1 (2021-22)	2.33	01	4.67	01	14.03	21	
CAY <i>m</i> 2 (2020-21)	2.36	00	4.72	00	14.17	20	
Average Numbers							
	RF1=2.33	AF1=0.67	RF2=4.66	AF2=0.67	RF3=14.01	AF3= 19.67	

Table 5.2 Faculty Cadre Proportion

Cadre Ratio Marks: [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5

: [(0.28) + [(0.14*0.6)] + [(1.40*0.4)]]*12.5

- =[0.28+0.08+0.56]*12.5
- =0.96*12.5
- = 12.13

5.3 Faculty Qualification

(25)

FQ = 2.5 x [(10X + 4Y)/F)]

where

X is no. of regular faculty with Ph.D.,

Y is no. of regular faculty with M. Tech.

F is no. of regular faculty required to comply 20:1 Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)

Years	Х	Y	F	FQ=2.5 x [(10X +4Y)/F)]
CAY (2022-23)	02	18	20.00	11.08
CAY <i>m</i> 1 (2021-22)	02	21	21.00	12.35
CAY <i>m</i> 2 (2020-21)	00	20	21.00	9.64
	11.02			

Table .5.3 Faculty Qualification

5.4 Faculty Retention

(25)

Description	2021-22	2022-23
No of Faculty Retained	15	13
Total No of Faculty	23	20
% of Faculty Retained	75	65

Table .5.4 Faculty Retention

Item	Mar
(% of faculty retained during the period of assessment keeping CAYm2 as base year)	ks
>=90% of required Faculty members retained during the period of assessment keeping CAYm2	25
as base year)	
>=75% of required Faculty members retained during the period of assessment keeping CAYm2	20
as base year)	
>=60% of required Faculty members retained during the period of assessment keeping CAYm2	15
as base year)	
>=50% of required Faculty members retained during the period of assessment keeping CAYm2	10
as base year)	
<50% of required Faculty members retained during the period of assessment keeping CAYm2	0
as base year)	

Average: 70.00

Assessment Marks: 15.00

5.5 Innovations by the faculty in teaching and learning shall be summarized as per the following description. (20)

Contributions to teaching and learning are activities that contribute to the improvement of student learning. These activities may include innovations not limited to, the use of ICT, instruction delivery, instructional methods, and engaging instruction.

Any contribution to teaching and learning should satisfy the following criteria:

- > The work must be made available on the Institutes website
- > The work must be available for peer review and critique
- > The work must be reproducible and developed further by other scholars

These may typically include a statement of clear goals, adequate preparation, use of appropriate methods, and significance of results, effective presentation, and reflective critique.

The faculty members of the Mechanical Engineering department follow innovative methodologies in the classroom in addition to the conventional methods. Conventional Methods Followed:

- 1. Blackboard
- 2. Sharing learning materials
- 3. Questioning in the class

1. MOODLE (Modular Object-Oriented Dynamic Learning Environment):

The institute has configured a learning platform that is available 24×7 to faculty and students. Using MOODLE, faculty can create courses in their respective program. The faculty members can upload assignment questions, for course purposes. Students can be automatically enrolled in the course with access rights given by the faculty as per their role in the course. Using MOODLE, faculty can maintain the attendance of students, and monitor their progress.

AGCE	🖡 🗩 fagce305 mech 🔘
Thermodynamics (BTMEC 305)	0
Dashboard / My courses / TH	Turn editing on
-	
Announcements	-
Attendance	
as CA1Discriptive	
Restricted Not available unless: You belong to CA1 exam	
Upload paper here only below 10 mb pdf file	
🐘 Assignment 1	Y
Restricted Not available unless: You belong to CA1 exam	
assignment 2	
Restricted Not available unless: You belong to CA1 exam	-
CA 1 objective remedial Examination 2021 TD 29/10/2021	
Restricted Not available unless: You belong to CA1 exam	-
an Cal Remedial Exam	
Restricted Not available unless: You belong to CA1 exam	
✓ Mid Sem Objective Examination	ß
as Mid Sem Exam Paper	N
TD Mid Sem Paper	
CA-2 Objective Exam Thermodynamics (8TMEC 305)	
Restricted Not available unless: You belong to CA-2 Exam	_
CA-2 Objective Exam	
Restricted Not available unless: You belong to CA-2 Exam	
CA1 -Objective -Remedial	N
CA2 - Objective - Remedial	
V Mid sem - Objective - Remedial	
🔤 CA1 - QP - Remedial	

5.5.1 MOODLE Page of Thermodynamics (S.Y. B.Tech- Mech)

AGCE	🖡 🔹 fagce703 mech 🕥
Vanufacturing Processes -III (BTMEC703)	0
eshboard / My courses / MP.III	Turn editing on
Contraction and the second sec	
Attendance	
CA 1 Answer sheet submission	
Restricted Not available unless: You belong to CA1 Exam	
CA-1 objective Examination 2021	Ø
Restricted Not eveilable unless You belong to CA1 Exam	
Mock test	
Assignment 1	∑ S
Instituted Not available unless: You belong to CA1 Exam	
Assignment 2	Ø
Resoluted Not available unless: You belong to CA1 Exam	
CA-1 Remedial Examination 2021	
Hidden frem studienta	
Processory Secondar Secondar Secondar	
Vid semester exemination	2
And wild sem answer sheet	2 2
Wine-sums ber geber	2
The Assignment No.3	8
Asignment No 4	
TRA Assignment No 5	9 0
Tage Assignment No b	

Figure 5.5.2 MOODLE Page of Manufacturing Processes-III (B.Tech-Mech)

Restricted Not available unless: You belong to CA-2 Exam

MP-III CA-2 Descriptive Answer sheet submission

 \square

2. Time-Table:

The academic calendar of the Institute is according to Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, India, and is made available on the institute website. Also, the same is made available to the students of the department via student Whatsapp groups.

January 2023 Image: Constraint of the second of the se	ABOUT ACADEMICS	ADMISSIONS S	CHOLARSHIPS	PLACEMENTS	ACHIEVEMENTS & E	EVENTS CONT	LCT
MON TUE WED TUH FRI SAT SUN 26 27 28 29 50 51 1 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 10 11 12 21 3 14 15 2<	January 202	23 💿					
MONTUEWEDTUHFRISATSUN26772829803112677829803112345678234567823456785Supplementary EvanisationSupplementary Evanisation56786Guert Supplementary Evanisation6785678910111213141510556555<	T						0
26 27 28 29 10 31 1 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2 3 5 5 5 5 5 2 3 5 5 5 5 5 2 3 5 5 6 7 8 3 10 10 10 10 10 10 10 10 11 12 13 14 15 2 10 11 12 13 14	MON	TUE	WED	TUH	FRI	SAT	SUN
2 3 4 5 6 7 8 End Senseter & Supplementary Examination Supt Senseter & Supplementary Examination End Senseter & Supplementary End Senseter & Supplementary End Senseter & Supplementary End Senseter & Supplementary End							1 End Semester & Supplementary Examination
Find Servester & Supplementary Exemination End Servester & Supplementary End Servester & Supplementary End Servester & Supplementary End Servester & Supplementary End S	2	3	4	5	6	7	8
9 10 11 12 13 14 15 End Senester & Supplementary barmination Ind Senester & Supplementary barmination End Senester & Supplementary barmination Ind Senester & Supplementary End Senester & Supplementary End Senester & Supplementary Industrial Training	End Servester & Supplementary Examination Gwest Lecture/Industrial Visit/Statutory Committee meeting	End Semester & Supplementary Examination Guest Lacture/Industrial Visit/Statutory Committee meeting	End Semester & Supplementary Examination Guest Lecture/Industrial Visit/ Statutory Committee meeting	End Semester & Supplementary Examination Guest Lecture/Industrial Visit/ Statutory Convnittee meeting	End Semester & Supplementary Examination Guest Lecture/Industrial Visit/ Statubory Committee meeting	End Semester & Supplementary Examination Guest Lecture/Industrial Visit/ Statutory Committee meeting	End Semester & Supplementary Examination
End Semester & Supplementary Examination End Semester & Supplementary Supplementary Supplementary Ind semester & Supplementary	9	10	11	12	13	14	15
16 17 18 19 20 21 22 End Semester & Supplementary	End Semester & Supplementary Examination	End Semester & Supplementary Examination	End Semester & Supplementary Examination	End Semester & Supplementary Examination	End Semester 8. Supplementary Examination	End Semester & Supplementary Examination	End Semester & Supplementary Examination
End Semester & End Semester & Supplementary	16	17	18	19	20	21	22
Examination Examination Examination Examination	End Semester & Supplementary Examination	End Semester & Supplementary Examination	End Semester & Supplementary Examination	End Semester & Supplementary Examination	End Semester & Supplementary Examination	End Semester & Supplementary Examination	Insdustrial Training

Figure 5.5.3 Academic calendar displayed on the college website

The timetable for the weekly lectures and practical's is made available to the students well in advance and displayed on the department notice boards. The course syllabus is available on student Whatsapp groups.



Figure 5.5.4 Weekly TimeTable

3. Lesson Plan:

The lesson plan for the individual subject is prepared by the individual teacher, and approved by the HoD and the corresponding Academic Monitoring Committee member of that department. The lesson plan conveys the course structure. The innovative methods employed by the faculty members help the students to get actively involved in the classroom.

AG	CE							4.9	fagce505 med
letr board	olog / My cou	y and Quality Control rses / MQC505 / General / Teaching plan	(BTM	1EC50	5)				
achi	na pl	an							
									7
	-	Arvind Gavali Co Teach	llege of I ing/Less	Engineeri on Plan	ng, Sata	ra	2021.22 (0	odd Sem)	
Branch Subjec	h: Mechar 1: Manufi	nical Enge seturing Brocesses III Metrology	Class	:: Final Year re/Week: 03	Btech Hours	Academic Ye Faculty: Mrs	Alatkar M.N		
Unit No	Lecture No.	Planned Topics	Teaching Method	Teaching Aids	Planned date	Completion date	Faculty Sign	AMC/HOD Sign	
	1	Unit 1: Measurement Standard and Comparators	L	OHP	9/15/2021	1719	00	1	
	2	Line end, wavelength, Traceability of Standards	L	OHP	9/17/2021	1719	ores		ar
	3	Types and Sources of error, AlignmenT	L	OHP	9/20/2021	2019	Des	Tabas	ð
1	4	Temperature, Plastic deformation, Slip gauges and gauge block	L	OHP	9/22/2021	2019	210	en -	
	5	Linear and Angular Measurement (Sine bar, Sine	L	OHP	9/24/2021	2319	Der		
	6	Calibration. Comparator: Mechanical, Pneumatic, Optical, Electronic (Inductive), Electrical (LVDT)	L+C	OHP	9/27/2021	2319	der.	/	
1		Unit 2: Interferometry and Limits, Fits,		- CIIID	0.000000	1.0	ALD	1	

Figure 5.5.5 Lesson plan uploaded on MOODLE Metrology and Quality Control subject (TY Mech)

4. Courses Offered by the Department:

The college organizes courses for skill development and technical proficiency. The three-week internship called "YUGAM" is conducted during the month of November which is also the vacation period of the odd semester. The course includes a hands-on workshop on UG-NX and CNC programming. Experts from the industry are invited to conduct the course and also give hands-on training to the students.





Figure 5.5.6 Screenshot YUGAM 2020 Hands-on workshop of UG-NX and CNC programming

5. Open Book Tests:

To improve the analytical skills of the students, open book tests are conducted by the individual faculty member.



Figure 5.5.7 Open Book Test of Machine Design II (TY B.Tech Mechanical Engineering)



Figure 5.5.8 Open Book Test of Manufacturing Process (TY B.Tech Mechanical Engineering)

6. Use of Interactive Panels:

The faculty members of the department are encouraged to conduct lectures using smart boards (interactive panels). This enables a more vivid representation of the concept by the incorporation of videos to simplify the concepts.



Figure 5.5.9 Faculty Using Interactive Panels for Conducting Lectures

7. Industrial Visits:

Industrial visits are carried out to bridge the gap between the Institute and industry. The students are able to know the current scenario in industries and the industryoriented problems, skills required in industries, etc required for their development.



Figure 5.5.10 Industrial Visit to Maharashtra Scooters, Satara, for TYMECH



Figure 5.5.11 Industrial Visit to Oracle Presscomps & Engg. Pvt. Ltd. Satara for SYMech



Figure 5.5.12 Industrial Visit to Shivam Engineering, Satara

8. Quiz:

Faculty members conduct quizzes based on objective questions to assess the understanding of concepts by the students. The quiz is conducted using the MOODLE platform. Objective Multiple-Choice Questions (MCQs) for students are also uploaded on the MOODLE.

agce aggre		🌲 🗭 fagce305 mech 🔘 🕒
Thermodynamics (BTMEC 305)		
Dashboard / My courses / TH / General / Mid Sem Objective Examination		
Mid Sem Objective Examination		0 -
	Attempts allowed: 1	
	This quiz closed on Friday, 10 December 2021, 11:59 PM	
	Attempts: 42	
	Back to the course	
- Cal Remedial Exam	Jump to •	Mid Sem Exam Paper 🛏

Figure 5.5.13 Quiz uploaded on MOODLE of subject Thermodynamics (SYMECH)

9. NPTEL Courses:

The students are encouraged to enroll in the National Programme on Technology Enhanced Learning (NPTEL) and Massive Open Online Course (MOOC) courses to enhance self-learning. The efforts of the SPOC for NPTEL courses have been appreciated by IIT Bombay.



Figure 5.5.14: Student NPTEL Certificate


Figure 5.5.15 Certificate of Course to Mrs. Manisha Nilkanth Alatkar for scoring the SWAYAM NPTEL Chapter



Figure 5.5.16 Certificate of Course to Mr. Suhas Prakashrao Patil for scoring of the SWAYAM NPTEL Chapter



Figure 5.5.17 Certificate of Course to Mr. Suhas Prakashrao Patil for scoring the SWAYAM NPTEL Chapter

Table 5.1. Certificate of Course to the scoring of the SWAYAM NPTEL

Chapter

Sr.	Name of the Faculty member	Certification	Course	Academic
No.				Year
01	Mrs.Manisha Nilkanth Alatkar	NPTEL	NBA Accreditation and	2019-20
			Teaching- Learning in	
			Engineering (NATE)	
02	Mr. Suhas Prakashrao Patil	NPTEL	Production Technology: Theory	2022-23
			and Practice	
03	Mr. Suhas Prakashrao Patil	NPTEL	Manufacturing Systems	2022-23
			Technology	

10. Detailed Course Contents (Notes/PPTs, etc.):

Reference books, notes, PowerPoint presentations, and videos explaining concepts are uploaded by the faculty on the MOODLE platform and made available to the enrolled students. Along with these, links to NPTEL courses mapping to the course are also provided by the faculty members.

AGCE	fagce601 mech
Unit No. 1 - Abrasive Machining and Finishing Operations	
S 1st opt	
Sind ppt	8
Srd ppt	
4th ppt	8
Sth ppt	8
S 6th ppt	
Unit No. 2 - Mechanics of Metal Cutting	
1st opt	S
2nd pot	R
Sind ppt	
Unit No. 3 - Thermal aspects, Tool wear, and Machinability	
Se 1st ppt	8
2nd pet	Real Provide American Science Provi
Set pot	8
4th pot	
Sth ppt	R
Seth ppt	
Unit No. 4 - Processing of Powder Metals	
5 1st ppt	R
S 2nd ppt	
T 3rd pot	

Figure 5.5.18 MOODLE containing course material of subject Manufacturing

Processes-II

11. Attendance:

🥌 4th ppt

Attendance is maintained on MOODLE and in hard copy form by the respective faculty members of the department. The department has the unique Guardian Faculty Mentor Scheme (GFM), under which fifteen students are assigned to a faculty member who is their GFM. The GFM counsels the students who have poor attendance. The GFM is also responsible for collecting feedback from the students for a difficult subject.

R

E	AGCE				🛔 🗭 Tagce703 mech 🎧
Mi	anufacturi 10810 / My courses /	ing Proces	SSES -III (BTMEC7 tendance / Attendance	703)	
Atte	endance for	the course	:: Manufacturing Pro	cesses -III (BTMEC703)	٥-
Ses	isions Add session	1 Report Expo	rt Status set Temporary users		
					All All past Months Weeks Days
#	Date	Time	Туре	Description	Actions 🗆
1	Fri 17 Sep 2021	10:15AM - 11:15AM	All students	Regular class session	e o 🖬 🖸
2	Sat 25 Sep 2021	8:30AM - 9:30AM	All students	Regular class session	🥐 O 🖬 🛛
3	Sun 26 Sep 2021	1:30PM - 2:30PM	All students	Regular class session	e o z 🕞
4	Fri 1 Oct 2021	10:15AM - 11:15AM	All students	Regular class session	e o 🖬 🗆
5	Sat 2 Oct 2021	12:15PM - 1:15PM	All students	Regular class session	e o s 🗆
6	5un 3 Oct 2021	1:30PM + 2:30PM	All students	Regular class session	e o 🖬 🗆
7	Fri 8 Oct 2021	10:15AM - 11:15AM	All students	Regular class session	0 a O
8	Sat 9 Oct 2021	12:15PM - 1/15PM	All students	Regular class session	
9	Sun 10 Oct 2021	1/30PM + 2/30PM	All students	Regular class session	e o a 🛛 🖓
10	Sat 16 Oct 2021	12:15PM - 1:15PM	All students	Regular class session	
11	Sun 17 Oct 2021	1:30PM - 2:30PM	All students	Regular class session	e o a 🛛
12	Fri 22 Oct 2021	10:15AM - 11:15AM	All students	Regular class session	
	Sat 23 Oct 2021	12:15PM - 1:15PM	All students	Regular class session	

Figure 5.5.19 Attendance of subject Manufacturing Processes-III B.Tech Mech

12. Project-based Learning:

Students are encouraged to form groups in various domains such as Thermal, Manufacturing, Design, CAD-CAM, Additive manufacturing, etc., and work on projects, innovative ideas, and research-paper-based projects.



SAMARTH EDUCATIONAL TRUST ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA

Department of Mechanical Engineering

Final Year B.Tech Project List

A.Y. - 2019-20

Gr N o.	Sr · N o.	Students Name	Project Name	Project Guide	domain
	1	Mokashi Sohel S.	Fixture		
	2	Gargate Hrishikesh R.	design for	Dr.	
1	3	Pawar Prathmesh P.	heavy	Pharande	Manufacturin
	4	Dhawale Nikhil P.	upgrading plant	VA	g
	5	Kakade Shivani	Complaint		
	6	Shinde Megha	s solving		Manufacturin g
2	7	Mane Mayur	through design change note & 7 QC tools	Mr.	
2	8	Mane Onkar		Ghadage SS	
	9	Pawar Vikrant D.	Compress ed air engiine		
	10	Salunkhe Pankaj L.		Mr.	
3	11	Surwase Shubham S.		Waghmode PK	nufacturing
	12	Waingade Ramdas P.			
	13	Herle D. B			
	14	Salunkhe Nayan S.		MuDamanla	
	15	Patil Amar S.	Callaga		
4	16	Waghamare Shubham	Sponsred	ar PR	
	17	Malusare Vishal	oponored	ui i D	
	18	Kadam Akash K.			
	19	Bhilare Pranita M.	Design &		
	20	Gaikwad Kanchan C.	Fabricatio	Mr.	
5	21	Bhosale Prasad R.	n or	Waghmode	Manufacturin
	22	Parmar Meet N.	l crop reaper	РК	Ĕ
	23	Paramane Akshay M.	Feeding		Monufacturin
6	24	Sabale Somanath	System of	Mr.Patil SP	σ
	25	Salunkhe Chandrakant	centerless		g

	26	Shete Omkar	grinding machine		
	27	Ranaware Abhiman Rajkumar	Design &		
	28	Bamane Vinay Nagoji	manufactu		
7	29	Dhavan Sandeep Sudhakar	ring of	Mr. Nikam	Manufacturin
	30	Yadav Mayur Panditrao	plastic	Pranod	g
	31	Kadam Sagar	machine		
	32	Dalavi Kiran T.	Advancem		
	33	Dhale Prasad D.	ent & time		
	34	Mane Suraj P.	reduction		
8	35	Yewale Vikram D.	 standard assembly procedure of turbo20 + eco32 & eoc42 	Mr. Patil S.S.	automobile
	36	Murdhekar Roshan	Design &		Manufacturin
	37	Saste Ketan	manufactu ring of	Mr Vodom	
9	38	Ghatge Pravin		Mr. Kadam $\Delta \Delta$	
	39	Bharskar Saurabh	Jigs &	ΛΛ	B
	40	Malvekar PrakashX	Fixture		
	41	Pawale Hrishikesh			
	42	Satre Akshay	Tool life	Mr. Kamble AV	
10	43	Patil Pragati	improvem ent		design
	44	Patil Pratiksha			
	45	Patil Raveena			
	46	Pharande Shivani Prakash	Design &	Dr. Pharande VA	
	47	Pharande Shraddha Baban	Devolopm		
11	48	Pisal Sonali Anil	ent of		design
	49	Dhekane Swapnita Satish	boring		
	50	Kumbhar SupriyaX	fixture		
	51	Sawant Pravin Madhukar	Experimen	Ma	
12	52	Bhaban Rushikesh Mahaveer	tal	MIT. Kambale	production
12	53	Naik Sangram Santaram	Analysis	R.R	production
	54	Kadam Akash Jaywant	of bearing.		
	55	Ghadge Rahul Arun			
	56	Patil Shubham Ananda	Bar	Mr Shivada	
13	57	Jadhav Amol Ankush	Mechanis	AS	production
	58	Jadhav Aniket Vinayak	m		
	59	Kadam MangeshX			
	60	Ghanwat Tushar		Mr.Bam	
14	61	Mane Sushant S.	Windmill	ankar	Renewable
	62	Barge Ajinkya		PB	

	63	Nikam Saurabh			
	64	Sabale Akshay M.	Design &		
	65	Pawar Amar	Devolopm		
15	66	Bhosale Sayali P.	ent of Rice	Mr. Nikam	design
	67	Shinde Sneha S.	Planting	Pranod	C
	68	Shinde Aviraj X	Machine		
	69	Jadhav Rahul Ashok			
	70	Jadhav Rohan Ashok			
16	71	Jadhav Pranil Ramesh	College	Mr. Matkar	
	72	Pawar Sanket Anil	Sponsered	IVI V	
	73	Mane Sarika X			
	74	Gundewadi Jyoti A.			
	75	Kadam Trupti L	Engine	N / N / 1	
17	76	Chavan Saket	Lifting	Mr. Kadam AA	production
	77	Yejare sangramsingh	Crain		
	78	Renushe Vijay			
	79	Shelke Akshay J.	Automatic Sealing Machine		
10	80	Shedge Ajay P.		Mr. Patil	
18	81	Sandesh Pachangane		S.S.	production
	82	Bhosale Ajinkya R.			
	83	Pimpale Suraj			
	84	Patil Aniket	Electric BikeNot Final	Mr. Patil SM	
19	85	Chavan Omkar			automobile
	86	Mane Ketan			
	87	Lawand Atul			
	88	Kale Haridas			
	89	Sapkal Abhijit	Automatic	Mr. Patil	
20	90	Sathe Deepak	Drain		production
	91	Mandave Akshay	machine	5111	
	92	Kadam Suraj			
	93	Shinde Ganesh X			
21	94	Gaikwad SurajX	Solar Drip	Mr. Matkar	Panawahla
21	95	Pisal Rohit X	System	MV	Kellewable
	96	Pawar OmkarX	System		
	97	Mokashi Sohel S.	Fixture		
	98	Gargate Hrishikesh R.	design for	Dr.	
22	99	Pawar Prathmesh P.	neavy	Pharande	design
	10	Dhawala Nikhil D	upgrading	VA	
	0	Dhawale Nikilli F.	plant		
22	10	Kakade Shiyani	Complaint	Mr.	design
23	1		s solving	Ghadage SS	ucsign

	10 2	Shinde Megha	through design change note & 7 QC tools		
	10 3	Mane Mayur			
	10 4	Mane Onkar			
	10 5	Pawar Vikrant D.			
	10 6	Salunkhe Pankaj L.		Ma	
24	10 7	Surwase Shubham S.	ed air	Waghmode	automobile
	10 8	Waingade Ramdas P.	engine	ΓK	
	10 9	Herle D. B			
	11 0	Salunkhe Nayan S.	College Sponsred	Mr.Bamank ar PB	
	11 1	Patil Amar S.			
25	11 2	Waghamare Shubham			
	11 3	Malusare Vishal			
	11 4	Kadam Akash K.			
	11 5	Bhilare Pranita M.	Design &		
26	11 6	Gaikwad Kanchan C.	Fabricatio n of	Mr. Washmada	design
20	11 7	Bhosale Prasad R.	agricultura l crop	PK	uesign
	11 8	Parmar Meet N.	reaper		
	11 9	Paramane Akshay M.	Fooding		
27	12 0	Sabale Somanath	System of	Mr Dotil SD	production
21	12 1	Salunkhe Chandrakant	grinding	wii.ratii SP	production
	12 2	Shete Omkar	machine		
20	12 3	Ranaware Abhiman Rajkumar	Design & manufactu	Mr. Nikam	dogiar
28	12 4	Bamane Vinay Nagoji	ring of plastic	Pranod	uesign

	12 5	Dhavan Sandeep Sudhakar	molding machine		
	12 6	Yadav Mayur Panditrao			
	12 7	Kadam Sagar			
	12 8	Dalavi Kiran T.	Advancem ent & time		
	12 9	Dhale Prasad D.	reduction standard	Mr Patil	
29	13 0	Mane Suraj P.	assembly procedure	S.S.	management
	13 1	Yewale Vikram D.	of turbo20 + eco32 & eoc42		
	13 2	Murdhekar Roshan			
	13 3	Saste Ketan	Design &		
30	13 4	Ghatge Pravin	ring of Jigs & Fixture	Mr. Kadam AA	production
	13 5	Bharskar Saurabh			
	13 6	Malvekar PrakashX			
	13 7	Pawale Hrishikesh	Toollifa	Mr. Kamble AV	
	13 8	Satre Akshay			production
31	13 9	Patil Pragati	improvem		
	14 0	Patil Pratiksha			
	14 1	Patil Raveena			
		A 37 - 2020	21		
Cr		A.Y 2020)-21		
Or N	Sr. N	Name of the Project Group Members	Title of the Project	Name of the Guide	Domain
0.	1	Akshav Shinde	Gyro		
	2	Akash Chavan	Vehicle	Prof.	
1	3	Rajin Bagwan	With	Ghadage S.	Automobile
	Λ	Aniket Shinde	Flexible Chassis	S.	
2	5	Snehal Patil	U1103515		Automobile

	6	Hrituja Pawle	Walking		
	7	Yogesh Kankekar	BOT Theo	Prof.	
			Jansen	Ghadage S.	
	0	Ganesh Kadam	Mechanis	S.	
	8	Digember Herene	III IoT-Based		
	9	Shantany Jadhay	multi-	Prof	
3	10	Shahtahu Jauhav	direction	Ghadage S.	Automobile
	11	Washii Nadai	conveyor	S.	
	12	Jaydeep Pawar	robot		
	13	Sharad Patil	Design		
	14	Vikey Hirugade	and Fabricatio		
	15	Umesh Kadam	n of	Prof	
4			Automatic	Ghadage S.	Automobile
			Milk Can	S.	
		Yogesh Raosaheb Shinde	Tilter		
	1.6		Mechanis		
	16	A iit Dowor	m		
	17	Alahay Daimura	Bicycle	Prof.	
5	18	Aksilay Kajgulu	Chain Drive	Kadam A. A.	Design
	19	A dityo Don dit			
	20	Aditya Pallult	Solar		
	21	Manuar Shirke	Based Robotic Farming	Prof	
6	22	Shraddha Dhagala		Shivade A. S.	Production
	23				
	24	Akshata Shedage	Machine		
	25	Akash Sunil Nikam	Low Cost	Prof. Patil	
7	26	Dhanraj Gogawale	- Ventilator		Design
	27	Vivek Bagane	Machine	S. P.	2 001811
	28	Rugveda Pandharpure			
	29	Abhishek Sutar	Rocker		
	30	Amit Sapkal	Bogiee	Prof Pratik	Pohotics
8	31	Priyank Tarade	With	Mahaian	Automation
		Sweta More	Stabilized	iviuiujuii	Tutomuton
	32	Sweta More	Platform		
	33	Nikhil Sawant	Rolling		
0	34	Sushant Bhosale	and	Prof.	Droduction
7	35	Satyam Kumbhar	Bending	Shivade A S	TTOULCHOIT
	36	Vishvajeet Vibhute	Machine		
	37	Aniket Darekar		-	
10	38	Akash Borate	Electric	Dr.	Automobile
10	39	Abhishek Katkar	Vehicle	Pharande sir	

	40	Akash Naikude			
11	41	Rupesh Bhaskar Nawadkar	Automatic		
	42	Rohit Shankar Chavan	Automatic	Prof.	
	43	Yogesh Pandurang Sapkal	Painting	Shivade A S	Production
	44	Partik Bhosale	Widefinite		
	45	Sharad Asawale	Design		
	46	Ajay Kanase	Manufactu		
	47	Alpesh Mandhare	ring of Air		
12			Calorimet	Prof. Patil	Design
		Pratik Chavan	er to Enhance	5.1.	
			Engine		
	48		Eficiency		
	49	Kavita Lad	Draumatia		Pneumatic Systems
13	50	Aparna Suryawanshi	Operator Feeder	Prof. Nikam P. R.	
15	51	Suraj Phalake			
	52	Akash Salunkhe			
	53	Nihal Rohile	UGC Vehicle With Gun		
14	54	Ruturaj Pisal		Prof. Patil	Design
14	55	Rushikesh Chavan	Mechanis	S. P.	Design
	56	Rajdeep Jadhav	m		
	57	Puja Shinde	Design of 6-Way Valve	Prof. Kadam A. A.	
15	58	Vishal Gaikwad			Design
15	59	Shubham Dhotre			
	60	Shrikant Herkar			
	61	Onkar Pimpale	Design		
	62	Akash Nikam Baburao	and		
	63	Akshay Mahadeo Chavan	Fabricatio	Prof.	
16			Automatic	Ghaddage	Automobile
		Shubham Kodag	Tyre	Nıkhıl	
		Shushum Rodug	Inflation		
	64		System		
	65	Shubham Sawant	Recycling		
	66	Nawaj Patel	Using	Prof	
17	67	Aditya Sapkal	Compressi	Kadam A.	Design
			on	А.	e
		Sushant Dayanand Pawar	Molding		
	68		Machine		
	69	Pratik Dhanave	Regular	Prof.	
18	70	Vrushabh Sapkal	Elevated	Ghaddage	Automobile
	71	Ramdas Kalokhe	Creeper	Nikhil	

	72	Shubham Sathe			
	73	Rohit Bhosale	Robotic		
	74	Vaibhav Kadam	Irrigation		
10	75	Akash Jadhav	System	Prof.Pawar	
19			With Water	Sandeep	Production
		Mohammad Rafique	Pump		
	76		Control		
	77	Aishwarya Deshmukh	a		
20	78	Kunal Bavalekar	Sugarcane	Dr.	Agricultural
20	79	Pruthviraj Chavan	Machine	Pharande sir	Agricultural
	80	Sourabh Chavare	Widemite		
	81	Shubham Jadhav			
21	82	Arbaz Patel	Snake	Prof. Pratik	Maahatraniaa
21	83	Rajashri Suryawanshi	BOT	Mahajan	weenauomes
	84	Adishesh Pawar			
	85	Ritik Agrawal	Advanced		
	86	Ranjit Kharade	Spying and Bomb	Prof. Pawar	Due le stien
22	87	Sanket Dhanawade		Sandeep	Production
	88	Akshay Gurav	Robot		
	89	Avinash Matre	Design		
	90	Digvijay Patil	and		
	91	Siddesh Kumbhar	Fabricatio	Prof.	
23			Automatic	Ghaddage	Automobile
		Krishana Nagargoje	Load	Nikhil	
		Krishana Nagargoje	Carrying		
	92		Vehicle		
	93	Shubham Padwal	Design		
	94	Suraj Sutar	Developm		
	95	Sachin Raskar	ent of		
			Automatic		
			Feeding		
24			Mechanis	Prof.Pawar	Production
			Through	Sandeep	
		Jeevan Patil	Feed		
			Center		
			Less		
	0.6		Grinding		
	96	Sutar Sachin	Machine		
25	9/	Akash Mulik	Hydraulic	Prof. Nikam	Pneumatic
23	98	Ganesh Jadhay	Machine	P. R.	Systems
1	99	Gancon Jaunav	muonnie	1	

	10 0	Mohatkar Mahesh			
20	10 1	Phalke Tushar siddharth	Polyster	Prof. Tambe	
26	10 2	Gaikwad Shubham Vivek	Machine	P. M.	Production
	10 3	Bhosale Snehal			
	10 4	Indrajit Shinde	Design and		
	10 5	Anil Hasbe	Developm ent of		
27	10 6	Vaibhav Mohite	Solar	Dr. Pharande sir	Production
	10 7	Siddhant Waje	Earth Auger and Fertilizer Machine		
	10 8	Tushar Gade	Air Ballon Jack	Prof. Nikam P. R.	Pneumatic systems
20	10 9	Pushpal Kadam			
28	11 0	Sushant Vasant Pawar			
	11 1	Desai Ashish			
	11 2	Ajay Kakade	Performan ce Study of Eletric Discharge Machine (EDM) Processes	Prof. Tambe P. M.	Production
29	11 3	Suraj Aswale			
2)	11 4	Pankaj Mule			
	11 5	Aditya Sampat Chavan			
	11 6	Kiran Vitthal Chavan	Ladle		
30	11 7	Omkar Kishor Mahadik	Lining by Readymad	Prof. Tambe	Production
50	11 8	Asshutosh Avinash Suryawanshi	e Exothermi	P. M.	Troduction
	11 9	Siddhesh Ganesh Kadam	c Sleeve		
	12 0	Bhosale Vishal Rajan	Design & Developm		
31	12 1	Deshpande Aditya Ajit	ent of Jig	Prof. Patil	Design
51	12 2	Gaikwad Prashant tukaram	End	S. P.	Design
	12 3	Ubale Sager	Hummer		

	12 4	Teli Nilesh Hiralal			
	12 5	Omkar Jadhav	On-Grid 4KW		Electrical Power Systems
	12 6	Shubham Pawar	Solar Lighting	Prof.	
32	12 7	Dhiraj Patil	Power	Bichkar J. S.	
	12 8	Paramveer Jagtap	Installatio n		
	12 9	Gadhave Abhijeet Bhanudas	Design and		Additive Manufacturin g
	13 0	Mardhekar parag Tanaji	Developm ent of Rapid	Prof	
33	13 1	Bhokare Krushna Rajendra		Alatkar M.	
	13 2	Kadam Saroj Shivajirao	g Setup	Agashe K.	
	13 3	Kharade Dattatary Sadashiv	Bed (Model 2)		
	13 4	Swapnil Bhaleghare	Design		
	13 5	Chinmay Shikarkhane	Developm ent of		
24	13 6	Aniket Dhanaji Salunnkhe	e Rapid Prof. Ta		3D Printing
54	13 7	Omkar Rajendra Kadam	g Setup with Moving Bed (Model 4)	Agashe K.	5D Finning
	13 8	Shedage Ajinkya Vijay	Design		
	13 9	Adagale Vikram Bharat	Developm ent of	Dr	
35	14 0	Dorage Sagar Madhukar	Rapid	Pharande sir	Additive Manufacturin
	14 1	Borate Lalesh Ankush	g Setup	Agashe K.	g
	14 2	Sakunde Prashant Kisan	Bed (Model 1)		
26	14 3	Vishal Kholambe	Design	Dr. Pharande sir	
36	14 4	Prathmesh Chavan Pravin	Developm	Prof. Agashe K.	2D Drinting
	14 5	More Rajesh	Rapid		SD FIIIUNg
	14 6	Mahesh Patil	g Setup		

			with Fixed Bed						
			(Model 3)						
Cr	C.	A.Y 202	1-22	[[
· N	· N	Names of the Project Group Members	Title of the Project	Name of the Guide	Domain				
0.	1	Shinde Praiwal Sunil	Fabricatio						
	2	Akash Rajendra Kanase	n of						
	3	Omkar Prakash Jadhay	Battery	Prof Patil	Manufacturin				
1	4	Vaibhav Vasant Mohite	Operated Mini Power Tiller	S. P.	g				
	5	Aditya Sunil Jagtap							
2	6	Rushikesh Shekar Chikne	Guardan	Prof.	Mechatronics				
	7	Rohit Ravindra Patil	Bot	Gnadage S.	(Interdiscripti nary)				
	8	Gaurav Rajendra Kadam	Dot	5.	iiui y)				
3	9	Utkarsh Ravindra Pustake		D					
	10	Nandkumar Sanjay Dubal	Electric	Dr. Phorondo V	Manufacturin				
	11	Nikhil Bhauso Bhosale	Vehicle	A A A	g				
	12	Sanket Hemant Shinde							
	13	Omkar Anil Dhole							
	14	Kishor Laxman Ghadage	Thermal						
	15	Ganesh Suresh kumbhar	Analysis						
6	16	Rupesh Popatrao Bhoite	Rectangul Prof. Patil ar & S. P. Parabolic Fins in Heat Exchanger		Thermal				
	17	Omkar bhilare							
	18	Rohan deshmukh	Design						
	19	Vaibhav R. Pawar	and	Drof					
7	20	Shewale Nikhil Vilas	of triangular air compresso	Prof. Kamble R. R.	Manufacturin g				
	21	Ranjeet Bhaskar Desai		Prof.					
8	22	Vaibhav Ravindra Thorat	Intelligent	Ghadage S.	Automobile				
	23	Akshay Maruti Jambhale	memgent	S.					

	24	Vedant Vikas Shinde	Braking System		
	25	Nadaf Sahil Shekhlal	Design		
	26	Panaskar Pratik Chandrakant	and		
	2.7	Ghorpade Harshada Ramdas	Manufactu	Prof Patil	Design and Manufacturin g
9		Madane Akanksha Manik	ring of pull back collet	S. P.	
	28		chuck		
	29	Dhane Nikhil Sunil	Process		
	30	Jagtap Rushikesh Madhukar	entusing	Prof Patil	Design and
10	31	Gaikwad Aniket Sachin	DMAIC	S P	Manufacturin
	32	Bhosale Prathamesh Pramod	methodolo	5.1.	g
	33	Suraj bajirao jadhav	Design		
	34	Yogesh shivaji pol.	and		
	35	Nayum Ajim Mujawar	developme	Prof	
12	36	Pratik sudhakar shinde	fighting	Ghadage S.S.	AI
	37	Rahul Maruti Kalkundrikar	10000		
	38	Ashutosh Anil Powar	Dual Axis		
	39	Abhijeet Deepak Kadam	Solar	Prof Patil	Mechatronics
13	40	Rajesh Ramchandra Pawar	System with self cleaning	S. P.	
	41	Ghorpade Akshay	0		
	42	Bhosale Indrajit	Self power	Prof.	
14	43	Kadam Swapnil	generated	Ghadage S.	Automobile
	44	Pawar Abhijit	bicycle	5.	
	45	Shubham Chavan	Testing		
	46	Ajinkya Pandharpatte	and		
	47	Ravi Kanase	analysis of		
15	48	Kunal Shinde	l properties of different 3D printing materials	Prof. Alatkar M. N.	Design and Development
16	49	Prithviraj Masu Lad		Prof.	Agricultural
10	50	Mayur Dilip Monde	Design &	Kambale A.	Agricultural

	51	Shamburaj Kuber Tavare	Manufactu			
			ring Cattle			
		Rohit Pradip Jadhav	Feed Pallets			
	52		Machine			
	53	Pawar Ashish Bhiku	Design			
	54	Pawar Pramod Bhiku	and	Prof	Design and	
17	55	Sutar Jyoti Dattatraya	manufactu	Kadam A.A.	Manufacturin	
	56	Bhosale Asmita Ananda	skimmer		g	
	57	Shewale Mayuri bhimrao				
	58	Shikalgar Aarju Majnu	Exoskelot		Design and	
18	59	Sawant Nikita Namadev	on Arm	Prof.Kadam	Manufacturin	
		Bhosale Sakshi Anil	pneumatic	A.A.	g	
	60	Madhaya Dahit kailag	Design			
-	61	Naunave Kollit Kallas	and	_		
10	62	Pawan vijay Desai	developme	Prof.	Manufacturin	
19			nt of can	Kamble	g	
		Bhandare Prasad Dilip	crusher	A. V.		
	63		machine			
_	64	Shinde Prathmesh Niraj	Design			
_	65	Bhoite Deepak Avinash	developme	Prof	Design and Development	
20	66	Sawant Shubham Rajendra	nt of	Kambale A.		
	67	Kamathe Shriram Shashikant	welding fixture			
	68	Pratik sanjay mane				
	69	Shweta hanumantrao chavan	Vertical	Prof	Manufacturin g	
21	70	Sushant Samadhan Jadhav	Axis	Kambale A.		
	71	Patil shubham sanjay	Turbine			
	72	swapnil sitaram jadhav	Solar			
22	73	pradip sitaram salunkhe	Backup	Prof.	Automobile	
	74	Rushikesh Dasharath Chavan	Installatio	A Kadam A.	Automobile	
	75	Akash Avinash Lembhe	n	<i>1</i> x .		
	76	Sourav Tarakchandra Tikadar				
	77	Hrushikesh prakash suryawanshi	Motorized	Prof.		
24	78	Rupesh sunil shelake	Chain	Kamble R.	Manufacturin	
	79	Aniket Raju Jagadale	m Hacksaw	R.	B	
	80	DESAI MUSKAN NISAR	Chiller for			
27	81	SURYAWANSHI PRATIKSHA RAVINDRA	thermofor	Alatkar M.	Automobile	
-	82	YADAV ANIKET ANIL	process	N.		

	83	KHUSPE MAYUR SHANKAR			
28	84	HARE NIKITA SANDIP		Prof.	
	85 HARISH SHAMRAO KOLEKAR		Motorise	Alatkar M.	Automobile
	86	GHARGE PRASAD VILAS	Car Jack	N.	
	87	GODASE MANOJ PANDURANG	Design		
	88	SURYAWANSHI JAYRAM DIPAK	and	Prof. Alatkar M.	Manufacturin
29	89	SAHIL SHAIK	fabrication		
	90	KADAM CHANDRASEN BHARAT	inspection robot	N.	g

13. Assignments with Assessments:

Assignments are given to the enrolled students by the faculty members. The students submit these assignments on MOODLE in an online form. These assignment marks are considered for internal term work calculations.

	Assignment No - 2. Sub-Sheet metell PRN - 2115 451012007
BI	press working terminology
1.012 1	and the second s
El at	A simple cutting die used for medi
parrie .	aperations is shown in fig.
-2000-00	Rom 4
	shank Buck up plate
37)	
pt-	Guid post and
· 2.2 -1	bushing
	punch Melal strip
heren	
The lost of	Die holder.
	packing of
	pie blook
	block die
par as 7	Blank
261	i add to define the boll to a
	gu hasnetzueto bas anab sharts it altim
	Bed - The bed is lower part of press trame
	that server as a table to which a bloster.
	plate is mounted.
	Bolster plate - this is three plate secured to
	the press bed, which is used for.
	locating and supporting the die assembly . It is
	Usually 5 to 12.5 cm thick.
	oie set - it is unit assembly which incorpa-
	rates a lower and upper shoes, two
	or more auidposts bushings.

	CIII
	Die - the die may be defined as the tend. part of a complete tool for preducing work in a press. also referred complete to
	work in press. Die block - it is a block os plate which cinture
	punch - This is mate component of the die desembly, which is directly or indirectly moved by and fastened to the press race
	slide. pitman - it is connecting road which is used to transmit motion from the main drife should be other dute
٩	shut height - it is the distance from top of the bed to the bottom of the slide with its strok. down and adjustment up
old n	send to trans to tower part of pours that is tower part of pours that is moveded.
annan haile	ealsher plate - this is thick plate
	sloudt ma 2 of op 2 privers
. 2 . 6	ende properties a louise parte arrente

Figure 5.5.20 Screenshots of Assignments uploaded on MOODLE

14. Continuous Assessments:

The continuous assessment report is generated based on the student attendance and the assessment grades defined by the faculty members.

100			Contin	uous	Assag	chnological L	Iniversity,	Lonere.			
100	ima of Candidate	sharaja	Aury	ADAN	the	ant Shee	t (CAS)				
Ro	sil No.	9676			Closs & I	Department	TP 91	ech (mec	honi	ical)	
Eu		Exp Nume	1612534		- Subject		mac				
No	-	- the real ride	-		Date of		CANNE IS				
					conduction	T	aboratory	Assessment			
D	strenime	AF Nati				submission	Neatness	Understanding	Total	Faculty Sign with	
-				0		(02)	(04)	(04)	(10)	Date	
3	experime	nt Ne	-			ta	-	5	9	70	3
-			-		5813133	2	14	3	9	1	2
0	Experime	nt No.	4				7			1	P
					1	2	4	5	0		r
(1)	exection	nt No. a			1			1	1		1
					1	2	4	3	9	T	1
-		CA1			J		1			13	1
A	-	nt No r		_	Average n	urks of labo	pratory exp	periment (10)			1
-	- Contraction			-	100	2	3	4	9	1	1
a	exertimet	+ No C		_							1
0	Card and a second second			-	1/4/28	2	3	4	ſ	X	T
2	ANDERIMAN	t Nin T									Fr
0		1. 1.00 /		-		2	3	4	9	6	1
2	6 x B c Stock D	-	-	_		0	12	1			T
9	a Kita waren	6 . 60	-		316123	L	3	4	9		
	ever inimer			_		2	2	5	9		
-	_	CA2		_	Average n	narks of labo	oralory ex	periment (10)		0	
	Laboratory	Attendance	Practical	Mock	Total	Labora	tory	Pra	ictical 1	Mock	5
	Assessment (10)	(05)	(10)	(05)	(30)	Assess	ment	(05) E	xam	Oral (30	0
AI	0	V	0	0	20 04	2 4	T	< 1	101	CD	0
	8	5	8	2	CK Ch		1	2		0 4	2

Figure 5.5.21 Continuous Assessment Sheet Filled by Faculty Member

15. Virtual Labs:

Virtual Labs is a complete Learning Management System configured in accordance with COEP, Pune. Virtual Labs does not require any additional infrastructural setup for conducting experiments at user premises. The simulation experiments were conducted in an online mode using Virtual Labs during the COVID-19 period so as to minimize the loss of students.







Figure 5.5.22 Screenshots of Experiment Conducted Using Virtual Lab

5.6 Faculty as participants in Faculty development/training activities / STTPs (15)

Numer Calls Free H	Max. 5 per Faculty						
Name of the Faculty	CAY (2022-23)	CAYm1 (2021-22)	CAY <i>m2</i> (2020-21)	CAYm3 (2019-20)			
Dr. Vilas Arjun Pharande		00	01	01			
Avinash Namdev Khadtare	01	02					
Dr.Mahammadsalman Warimani	01	00	07	11			
M Sonachalam	01						
Prasanth Narayan	01						
Sadanand Sarapure	00						
Mr. Suraj Sajjan Ghadage	02	02	09	01			
Suyog Sambhaji Patil	05						
Tushar Vilas Shende	00						
Mr. Ravi Raju Kambale	00	00	01	05			
Mr. Suhas Prakashrao Patil	02	02	15	04			
Mr. Arjun Arun Kadam	01	01	02	05			
Mr. Ankur Vilas Kamble	02	02	03	05			
Manisha Nilkanth Alatkar	02	04	06	03			
Mr. Mayuresh Wankhande	00	00	00	00			
Mr. Ganesh Kishor Babar	00	00	00	00			
Nikhil Vilas Ghadage	00						
Miss. Priya Yashwant Kuthe	00	01	00	00			
Mr. Abhijeet Tanajirao Bhosale	01	00	00	00			
Suraj Hanmant Jamdadede	00						
Mr. Mahesh Vishnu Matkar	00	00	00	00			

Dr.Ananda Bhimrao Gholap	01	00	03	00
Dr.Sayed Ahmed Imran Bellary	00	00	00	00
Mr. Pratik Manohar Tambe	00	01	01	05
Miss.Mrunalini Uttam Patil	00	00	00	00
Dr.Abhay Arjun Desai	00	00	00	00
Amey Patwardhan	00	00	00	00
Mr,Suhas Arjun Pharande	00	01	01	00
Mr. Pranesh Bamankar	00	00	01	00
Mr. Sandip Pawar	00	00	01	00
Mr. Pranod Nikam	00	00	02	02
Mr. Anand Shivade	00	00	00	12
Sum	20	16	53	54
<i>RF</i> = Number of Faculty required to comply with 20:1 Student-Faculty ratio as per 5.1	20.75	21.05	21.25	21.25
Assessment = 3 × (Sum/0.5RF) (Marks limited to 15)	5.78	4.56	14.96	15
Average assessment over three years (Marks	limited to 15 =11.	50	1	

AGCE, Satara

5.7 Research and Development

Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

- Number of quality publications in refereed/ SCI Journals, citations, Books/ Book Chapters etc.(6)
- Ph.D. guided / Ph.D. awarded during the assessment period while working in the institute(4)

All relevant details shall be mentioned.

5.7.1 Academic Research:

(10)

Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph. D. during the assessment period. All relevant details shall be mentioned.

5.7.1.1. Number of quality publications in refereed/SCI Journals, citations, Book/Book Chapters, etc.

Following is the list of research papers published by the faculty members in reputed journals and conferences:

List of research papers published by the faculty of the Mechanical Engineering department in the academic year 2022-23:

2022-23							
Sr. No.	Faculty Name	Title of paper	Name of the Journal/Conference	Journal Details			
				ISSN No. 0363 – 8057			
	Dr. Vilas Pharande	A Performance Enhancement of Household Refrigerator Using Phase Change Materials (PCMs)	Cardina Daniana Inamal	Vol. 9, No. 5, pp. 2185 – 2189			
1			Gradiva Review Journal	May 2023			
				DOI:10.37897.GRJ.2022. V9I5.23.513038			
2	Dr. Vilas Pharande	Conversion of Waste Plastics into Fuel Using	Gradiva Review Journal	ISSN No. 0363 – 8057			

(30)

		Pyrolysis Process		Vol. 9, No. 5, pp. 2173 – 2177
				May 2023
				DOI:10.37897.GRJ.2022. V9I5.23.513036
3	Dr. Avinash Khadtare	CuO Nanoparticle Size effect on Inconel-718 turning with nanofluid minimum quantity lubrication	International Journal of Machining and Machinability of Materials	DOI: 10.1504/IJMMM.2023.10 055979
4	Mr. Suhas patil	Characterization and Machinability Studies of Aluminium-based Hybrid Metal Matrix Composites – A Critical Review	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	ISSN (Online): 2289 - 7879 Vol. 101, No. 2, pp. 137 – 163, January 2023 DOI: https://doi.org/10.37934/ar fmts.101.2.137163
5	Mr. Suhas patil	Heat Transfer Enhancement in Tubular Heat Exchanger with Jet Impingement: A Review	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences	ISSN (Online): 2289 - 7879 Vol. 101, No. 2, pp. 8 – 25, January 2023 DOI: https://doi.org/10.37934/ar fmts.101.2.825
6	Dr.Sadanand Sarapure	Optimization of material removal rate and surface roughness during electric discharge machining of ultra-fine grained Al6082 using Taguchi technique	Material science and Engineering Technology (Materialwissenschaft und Werkstofftechnik)	ISSN: 0933-5137 (print). 1521-4052 (online) Vol. 54, No. 2, pp. 168 – 179, February 2023 https://doi.org/10.1002/ma we.202200074
7	Dr.Sadanand Sarapure	Advanced tape cast multilayer thin ceramics and composites with inelastic failure behaviors for damage-resistant applications	In Advanced Flexible Ceramics, Design, Properties, Manufacturing, and Emerging Applications Elsevier Series in Advanced Ceramic Materials	ISBN 978-0-323-98824-7 Pages 391-410, March 2023 https://doi.org/10.1016/B9 78-0-323-98824-7.00019- 1
8	Dr. Mahammadsal man	Metal non metal sorting using metel detection	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
9	Dr. Gholap A B	Radial and axial relief	Proceedings of the	ISBN: 978-81-961931-1-9

		Grinding Machine	International Conference on Innovations and Recent Trends in Engineering and Science – 2023	
10	Dr. Sadanand Sarapure	Semi autoconducting mulching machine	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
11	Dr. Mahammadsal man	ALTERNATIVE METHOD FOR WATER LIFTING TECHNOLOGY IN RURAL AREAS (Zero Energy Water lifting Technology In Rural India)	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
12	Dr. M.Sonachalam	Generation Of Electricity From Ocean Waves by using spur gear	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
13	Dr. Avinash Khadtare	Industrial Robotic Arm	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
14	Mrs. Alatkar Manisha	Robotic arm with vehicle	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
15	Mrs. Alatkar Manisha	Accelerometer Based Gesture Controlled Robocar	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
16	Dr. M.Sonachalam	Road power generation	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
17	Mr. Suhas Patil	Design and development of 360 degree fire protection system	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9

18	Mr. Suhas patil	Design and fabrication of automatic ground clearance machine	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
19	Dr. Gholap A B	Section bending machine	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
20	Mr. arjun Kadam	Multipurpose agriculture machine	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
21	Mrs. Alatker Manisha	Vertical axis wind turbine	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
22	Mr. Abhijeet Bhosale	pneumatic jet machine	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
23	Dr. Avinash Khadtare Design and manufacturing of hydraulic cutter		Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science – 2023	ISBN: 978-81-961931-1-9
24	Dr. Avinash Khadtare	A Comparative study of Nano-MQL and MQL on Chip Morphology and Shear Angle under High Speed Turning of Inconel 718: For a Sustainable Machining.	4th Techno-societal 2022. International Conference	Presented
25	Mr. Suhas patil	Characterization and Machinability Studies of Aluminium-based Hybrid Metal Matrix Composites – Critical Review	International conference on recent advances in fluid mechanics ICRAFM 2022, 04 to 06 October 2022	Presented

List of research papers published by the faculty of the Mechanical Engineering department in the academic year 2021-22:

2021-22							
Sr. No. Faculty Name		Title of paper	Name of the Journal/Conference	Journal Details			
1	Dr. Vilas A. Pharande	Advantages of Digital Transformation in Indian Higher Education Sector	Anvesak	ISSN No. : 0378-4568			
2	Dr. Vilas A. Pharande	Rechargeable Electrical Energy Storage System Development for an Electrical Vehicle Retro Fitment Kit	International Research Journal of Engineering and Technology	-ISSN: 2395 - 0056 p-ISSN: 2395 - 0072			
3	Dr. Vilas A. Pharande	Total Quality Management (Book)	International Research Journal of Multidisciplinary Scope (IRJMS)	ISSN (Online): 2454 - 8499			

List of research papers published by the faculty of the Mechanical Engineering department in the academic year 2020-21:

2020-21						
Sr. No.	Faculty Name	Title of paper	Name of the Journal/Conference	Journal Details		
1	Dr. Vilas A. Pharande	Design of Tooling System to Reduce Cycle Time	Seybold Report	ISSN: 1533 – 9211 Vol. 25, No. 10, 2020		
2	Mr. Shivade A. S.	Modified Direct Clustering Algorithm for Group Formation in Cellular Manufacturing	International Conference on Artificial Intelligence and Machine Learning (ICAIML - 2020)	DOI: 10.1088/issn.1757-899X Online ISSN: 1757-899X Print ISSN: 1757-8981		
3	Dr. Vilas A. Pharande	Customer Relationship Management (Book)	International Research Journal of Multidisciplinary Scope (IRJMS)	ISSN: 2454 - 8499		
4	Mr. Arjun A. Kadam	Design and manufacture of Engine lifting crane	International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)		
5	Dr. Vilas A. Pharande Design & 5 Jig		International Conference on Innovations and Recent Trends in Engineering and	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)		

			Science (ICIRTE - 2020)	
6	Mr. Arjun A. Kadam	Design And Development Of Drilling Jig	International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)
7	Mr. Pranod R. Nikam	Design And Development Of Rice Transplanting Machine	International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)
8	Mr. Suhas Patil	Automation Mechanisms for Centerless Grinding Machine: A Review	International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)
9	Mr. Kamble Ravi R.	HHO Gas Generator Unit For Petrol engine	International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)
10	Mr. Pranod R. Nikam	Plastic Injection Molding Machine	International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)
11	Mr. Ankur V. Kamble	Review paper on design and manufacturing of fertilizer mixing machine	International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)
12	Mr. Ghadage S. S.	Complaints Solving Using Design Change Note and Quality Control Tools	International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE - 2020)

5.7.1.2. Ph. D. guided/Ph. D. awarded during the assessment period while working in the institute:

	Title of the Ph. D.	University	Year of Completion	
Faculty Name	Thesis Phd guiding			Country
	Performance and emission prediction of multi-cycle pulse detonation engine	International Islamic University Malaysia (IIUM)	06 January, 2023	
Dr. Mahammadsalman	utilizing alternative			
Warimani	fuels			Malaysia

Ph.D. awarded during the assessment period while working in the institute:



Ph.D. Degree Certificate of Dr. Mahammadsalman Warimani

Sr. No.	Name of the Ph.D. Guide/Co- Guide	Name of the Research Scholar	Title of the Thesis	Guide / Co Guide	Degree Awarded	University
1	Dr. Vilas Arjun Pharande	Mr. Abhay A. Desai	Experimental Investigation on Effect of Temperature Gradient on Evaporating Water Droplet Particle	Co- Guide	2021	Shri. Jagdishprasad Jhabarmal Tibrewale University, Jhunjhunu
2	Dr. Vilas Arjun Pharande	Mr. Suhas Arjun Pharande	Determination of Effective Thermal Transport Properties of straw and Development of corelations for different climate zones for India	Co- Guide	Pursuing	Sun Rise University, Rajsthan
3	Dr. Vilas Arjun Pharande	Mr. Ajit Bansode	Introducing use of Ultra Capacitor in the energy storage section of the EV in Conjunction with a battery bank	Co- Guide	Pursuing	Sun Rise University, Rajsthan
4	Dr. Vilas Arjun Pharande	Mr. Shital Bhosale	Investigation of surface modification in powder mixed electrical dischage machining process	Co- Guide	Pursuing	Shri. Jagdishprasad Jhabarmal Tibrewale University, Jhunjhunu
5	Dr. Vilas Arjun Pharande	Mr. Arjun Arun Kadam	Analysis on Heat Transfer flow of fluid using Finite Element Method	Guide	Pursuing	Sun Rise University, Rajsthan

Ph.D. guided during the assessment period while working in the institute:
5.7.2 Sponsored Research

(5)

Sr. No.	Project Title	Duration Funding Agency		Amount		
2019-20						
1	Design & Devolopment of boring fixture	1	Zerg Corporation, Satara	13000		
2	Experimental Analysis of bearing.	1	Majesty Tyres Satara	9000		
3	Automatic Drain wastage machine	1	Zerg Corporation, Satara	10000		
4	Fixture design for heavy water upgrading plant	1	Zerg Corporation, Satara	15000		
5	Design & manufacturing of Jigs & Fixture	1	Akashganga Constructional Machines Pvt. Ltd.	14000		
6	Fixture design for heavy water upgrading plant	1	Akashganga Constructional Machines Pvt. Ltd.	10000		
7	Feeding System of centerless grinding machine	1	Akashganga Constructional Machines Pvt. Ltd.	15000		
8	Advancement & time reduction standard assembly procedure of turbo20 + eco32 & eoc42	1	Abhijat Equipments Pvt. Ltd., Satara	10000		
	2020-21					
1	Electric Vehicle	1	AGCE	14000		
2	UGC Vehicle With Gun Mechanism	1	Majesty Tyres Satara	15000		
3	Design and Fabrication of Automatic Tyre Inflation System	1	Majesty Tyres Satara	21000		
4	Recycling of Plastic Using Compression Molding Machine	1	Abhijat Equipments Pvt. Ltd., Satara	20000		
5	Regular Elevated Creeper	1	Abhijat Equipments Pvt. Ltd., Satara	22500		
6	Design and Development of Automatic Feeding Mechanism Through Feed Center Less Grinding Machine	1	Design tech Systems Ltd Pune	26600		
7	Design & Development of Jig For Drive End Machining Humme	1	Abhijat Equipments Pvt. Ltd., Satara	23500		
		2021-22				
1	Fabrication of Battery Operated Mini Power Tiller	1	Design tech Systems Ltd Pune	20000		

2	Thermal Analysis of Rectangular & Parabolic Fins in Heat Exchanger	1	Design tech Systems Ltd Pune	19000
3	Design and fabrication of triangular air compressor	1	Zerg Corporation, Satara	21000
4	Intelligent Braking System	1	Design tech Systems Ltd Pune	15000
5	Testing and analysis of mechanical properties of different 3D printing materials	1	Design tech Systems Ltd Pune	15000
6	Vertical Axis Windmill Turbine	1	Om Enterprises,Satara	21000
7	Chiller for thermoforming process	1	Om Enterprises, Satara	25000
8	Motorise Car Jack	1	Design tech Systems Ltd Pune	28000
9	Design and fabrication of pipe inspection robot	1	Om Enterprises,Satara	19500

5.7.3 Development Activities

(10)

Provide details:

- 1. Product Development
- 2. Research laboratories
- 3. Instructional materials
- 4. Working models/charts/ monograms etc.

1. Product Development:

Title of the Invention: RETRO-FITMENT KIT FOR THREE-WHEELER AUTO RICKSHAW TO CONVERT IC ENGINE INTO ELECTRICAL DRIVE USING GEAR BOX

Patent Application No.: 202121024842 Date of Filing: 04 June 2021 Status: Published

Indian Patent Advanced Se	SS arch System	INTE	LLECTUAL PERTY INDI		
	Patent Search				
Patent Search	Patent E-register Application Status Help				
Invention Title	RETRO-FITMENT KIT FOR THREE-WHEELER AUTO RICKSHAW TO CONVERT IC ENGINE INTO ELECTRICAL DRIVE USING GE	AR BOX			
Publication Number	31/2021				
Publication Date	30/07/2021				
Publication Type	INA				
Application Number	202121024842				
Application Filing Date	04/06/2021				
Priority Number					
Priority Country					
Priority Date					
Field Of Invention	MECHANICAL ENGINEERING				
Classification (IPC)	F02M0025080000, B62K0013040000, B60L0050500000, B62K0005020000, F01N0013000000				
Inventor					
Name	Address	Country	Nationality		
Dr. Vilas Arjun Pharande	Principal and Guide, Arvind Gavali College of Engineering, Satara, MH, India. E-mail: vilas.agcesatara@gmail.com	India	India		
Mr. Aakash Sunil Naykude	Final Year B-Tech (Mechanical Engineering) Arvind Gavali College of Engineering, Satara E-mail: aakashnaykude3222@gmail.com	India	India		
Mr. Aniket Avinash Darekar	Final Year B-Tech (Mechanical Engineering), Arvind Gavali College of Engineering, Satara, MH, India. E-mail: aniketdarekar99@gmail.com	India	India		
Mr. Abhishek Shankarrao Katkar	Final Year B-Tech (Mechanical Engineering), Arvind Gavali College of Engineering, Satara, MH, India. E-mail: katkarabhi91@gmail.com	India	India		
Mr. Akash Narendra Borate	Final Year B-Tech (Mechanical Engineering) Arvind Gavali College of Engineering, Satara, MH, India. E-mail: 27akashborate@gmail.com	India	India		
Applicant					

Figure 5.7.3.1 Screenshot of Webpage of Indian Patent Office for Patent Application No. 202121024842

	Application Details
APPLICATION NUMBER	202221065599
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/11/2022
APPLICANT NAME	1 . DR.PHARANDE VILAS ARJUN 2 . MS.GAVALI MANISHA KRUSHNAT 3 . MS.GURAV KANCHAN DATTATRAY 4 . MS.WARAGADE MRUNALI DILIP 5 . MRS.NIKAM PRIYANKA CHANDRAKANT
TITLE OF INVENTION	DP TRANSFORMER THEFT PROTECTION AND MONITORING SYSTEM.
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	vilaspharande@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/11/2022
PUBLICATION DATE (U/S 11A)	09/12/2022



2. Instructional Material: MOODLE System:

MOODLE is a learning platform designed to provide educators, administrators, and learners with a single robust, secure, and integrated system to create personalized learning environments. A teacher can store instructional materials in every course like PowerPoint presentations, videos, animations, and lab manuals. The same is available to the enrolled students 24×7 . Teachers can schedule quizzes and assignments for their subjects periodically. Quizzes are based on Multiple Choice Questions (MCQs) and assignments can be uploaded for assessment. The grades obtained by the students are visible immediately after the quiz is attempted.

Project Posters:

Students are encouraged to participate in Poster Presentation competitions. Posters prepared by the students and presented in innovative project competitions such as AVISHKAR and ANVESHAN are made available to the students for study and presentation purposes.



Figure 5.7.3.3 AVISHKAR Poster Displayed in the Laboratory

Laboratory Manuals:

The laboratory manuals for the following subjects have been prepared by the faculty members of the department:

Table 1. List of Laboratories subject-wise for SY, TY, and Final Year B.Tech

(Mechanical Engineering)

SEM III			
BTMEL307 Materials Science and Metallurgy Lab			
BTMEL308 Fluid Mechanics Lab			
BTMEL309	Machine Drawing and CAD Lab		
	SEM IV		
BTMEL407	Manufacturing Processes Lab – I		
BTMEL408	Theory of Machines Lab- I		
BTMEL409	Strength of Materials Lab		
SEM V			
BTMEL507	Heat Transfer Lab		
BTMEL508	Applied Thermodynamics Lab		
BTMEL509 Machine Design Practice- I			
BTMEL510 Theory of Machines Lab- II			
	SEM VI		
BTMEL607	Metrology and Quality Control Lab		
BTMEL608	Machine Design Practice-II		
BTMEL609	IC Engine Lab		
BTMEL610	Refrigeration and Air Conditioning Lab		
SEM VII			
BTMEL706	Manufacturing Processes Lab - II		
BTMEL707 Mechatronics Lab			
BTMEL708	CAD/CAM Lab		

Lab Charts:

Charts providing information relevant to the experiments conducted in the laboratory are displayed in the laboratories.

Sr. No.	Name of the Laboratory	Name of the Chart
	Machine Drawing and CAD	Intersection of solids
1	Laboratory	Conventional representation of machine components
2	Theory of Machine Laboratory	Gyroscope

		Gear to Terminology	
3	Mechatronics Laboratory	Pneumatic Symbols	
4	Fluid Mechanics and material science Laboratory	Fluid Mechanics	
		Turbine Technology	
	Heat Transfer/ Metrology &	Shell & Tube type boiler	
5		Micro meter	
	Quality Control Laboratory	Measuring instruments	
		Dial Indicator	
		Calerometry	
6	I.C. Engine Laboratory	Components of engine	

5.7.4 Consultancy (from Industry)

(5)

Sr. No.	Project Title	Duration	Funding Agency	Am	ount	
2019-20						
1	AICTE Unnat Bharat Abhiyan	1	AICTE 50		50000	
2	Design & Development of boring fixture	1	Zerg Corporation, Satara		13000	
3	Experimental Analysis of bearing.	1	Majesty Tyres Satara 9000		9000	
4	Automatic Drain wastage machine	1	Zerg Corporation, Satara		10000	
5	Fixture design for heavy water upgrading plant	1	Zerg Corporation, Satara		15000	
6	Design & manufacturing of Jigs & Fixture	1	Akashganga Constructional Machines Pvt. Ltd.		14000	
7	Fixture design for heavy water upgrading plant	1	Akashganga Constructional Machines Pvt. Ltd.		10000	
8	Feeding System of centerless grinding machine	1	Akashganga Constructional Machines Pvt. Ltd.		15000	
9	Advancement & time reduction standard assembly procedure of turbo20 + eco32 & eoc42	1	Abhijat Equipments Pvt. Ltd., Satara		10000	
Total				96000		
		2020-21				
1 Electric Vehicle 1 AGCE 1400		000				

2	UGC Vehicle With Gun Mechanism	1	Majesty Tyres Satara	15000
3	Design and Fabrication of Automatic Tyre Inflation System	1	Majesty Tyres Satara	21000
4	Recycling of Plastic Using Compression Molding Machine	1	Abhijat Equipments Pvt. Ltd., Satara	20000
5	Regular Elevated Creeper	1	Abhijat Equipments Pvt. Ltd., Satara	22500
6	Design and Development of Automatic Feeding Mechanism Through Feed Center Less Grinding Machine	1	Design tech Systems Ltd Pune	26600
7	Design & Development of Jig For Drive End Machining Humme	1	Abhijat Equipments Pvt. Ltd., Satara	23500
	Total			142600
	Total	2021-	22	142600
1	Total AICTE Margdarshan Mentor- Mentee Scheme	2021- 3	22 AICTE	142600 500000
1	Total AICTE Margdarshan Mentor- Mentee Scheme Fabrication of Battery Operated Mini Power Tiller	2021- 3 1	22 AICTE Design tech Systems Ltd Pune	142600 500000 20000
1 2 3	TotalAICTE Margdarshan Mentor- Mentee SchemeFabrication of Battery Operated Mini Power TillerThermal Analysis of Rectangular & Parabolic Fins in Heat Exchanger	2021- 3 1	22 AICTE Design tech Systems Ltd Pune Design tech Systems Ltd Pune	142600 500000 20000 19000
1 2 3 4	TotalAICTE Margdarshan Mentor- Mentee SchemeFabrication of Battery Operated Mini Power TillerThermal Analysis of Rectangular & Parabolic Fins in Heat ExchangerDesign and fabrication of triangular air compressor	2021- 3 1 1	22 AICTE Design tech Systems Ltd Pune Design tech Systems Ltd Pune Zerg Corporation, Satara	142600 500000 20000 19000 21000

Total			1160700	
10	Design and fabrication of pipe inspection robot	1	Om Enterprises,Satara	19500
9	Motorise Car Jack	1	Design tech Systems Ltd Pune	28000
8	Chiller for thermoforming process	1	Om Enterprises,Satara	25000
7	Vertical Axis Windmill Turbine	1	Om Enterprises,Satara	21000
6	Testing and analysis of mechanical properties of different 3D printing materials	1	Design tech Systems Ltd Pune	15000

5.8 Faculty Performance Appraisal and Development System (FPADS):

Faculty members of Higher Educational Institutions today have to perform a variety of tasks pertaining to diverse roles. In addition to instruction, faculty members need to innovate and conduct research for their self-renewal, keep abreast with changes in technology, and develop expertise for effective implementation of curricula. They are also expected to provide services to the industry and community for understanding and contributing to the solution of real-life problems in the industry. Another role relates to the shouldering of administrative responsibilities and cooperation with other Faculty, heads of departments, and the Head of the Institute. An effective performance appraisal system for Faculty is vital for optimizing the contribution of individual Faculty to institutional performance.

The assessment is based on:

A well-defined system for faculty appraisal for all the assessment years (10)

Its implementation and effectiveness (20)

Performance appraisal system of the faculty:

Annual self-assessment for the performance-based appraisal system is adopted as per the UGC notification on 30 June 2010, approved by the Govt. of Maharashtra state vide GR dated 15 February 2011. Hence it is ensured that information on multiple activities is appropriately captured.

Category I: Teaching, Learning, and Evaluation-Related Activities Brief Explanation:

Based on the teacher's self-assessment, API scores are proposed for (a) teaching-related activities, (b) domain knowledge, (c) participation in examination and evaluation, (d) contribution to innovative teaching, new courses, etc. The minimum API score required by teachers from this category is 75. The self-assessment score should be based on objectively verifiable criteria wherever possible and will be finalized by the screening/selection committee.

Category II: Co-curricular, Extension and Professional Development Related Activities Brief Explanation:

Based on the teacher's self-assessment, category II API scores are proposed for cocurricular and extension activities and Professional development-related contributions. The minimum API required by teachers for eligibility for promotion is 15. A list of items and proposed scores is given below. It will be noticed that all teachers can earn scores from a number of items, whereas some activities will be carried out only by one or a few teachers. The list of activities is broad enough for the minimum API score required (15) in this category to accrue to all teachers. As before, the self-assessment score should be based on objectively verifiable criteria and will be finalized by the screening/selection committee.

Category III: Research and Academic Contributions

Brief Explanation:

Based on the teacher's self-assessment, API scores are proposed for research and academic contributions. The minimum API score required by teachers from this category is different for different levels of promotion and between universities and colleges. The self-assessment score will be based on verifiable criteria and will be finalized by the screening/selection committee. Review of Performance Appraisal: The Performance-based Appraisal System (PBAS) forms are submitted through the Head of Department to the Academic Monitoring Committee (AMC), R&D and IPR Committee, and IQAC Committee. The Head of Department along with the AMC, R&D and IPR Committee, and IQAC form the review committee. The advantage of PBAS is that each faculty becomes aware of self-weakness and tries to improve oneself in those areas so that he/she can score better in the next year. Faculty with good API scores is given letters of appreciation and the faculty members having low API scores are personally counseled by the Head of the Institute.

APPRAISAL AND 360° FEEDBACK FORM

Name Date of Birth	Swhan prakashrao Patil
Highest Qualification Designation	Uting inyo
Experience Program Mobile No. Email	Teaching ID Industrial Z Total 12 Mechany I & Total 12 9860928844
Permanent Address (with pin code) Academic Year	Ale-Tslampur, Freewalue, Dirk-sanger 22-23

SCORES FOR ACADEMIC PERFORMANCE INDICATORS (APIS) IN RECRUITMENTS AND CAREER ADVANCEMENT SCHEME (CAS) PROMOTIONS OF UNIVERSITY / COLLEGE TEACHERS

CATEGORY I: TEACHING, LEARNING AND EVALUATION RELATED ACTIVITIES

Brief Explanation: Based on the teacher's self-assessment, API scores are proposed for (a) teaching related activities; (b) domain knowledge; (c) participation in examination and evaluation; (d) contribution to innovative teaching, new courses etc. The minimum API score required by teachers from this category is 75. The self assessment score should be based on objectively verifiable criteria wherever possible and will be finalized by the screening/selection committee.

1. Lectures, seminars, tutorials, practical's, contact hours undertaken taken as percentage of lectures allocated.

2. Lectures or other teaching duties in excess of the UGC norms.

3. Preparation and Imparting of knowledge / instruction as per curriculum; syllabus enrichment by providing additional resources to students.

4. Use of participatory and innovative teaching-learning methodologies; updating of subject content, course improvement etc.

5. Examination duties (Invigilation: question paper setting, evaluation/assessment of answer scripts) as per allotment.

Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1.A	Excellent course file for the subject, teaching plan displayed	20	Course file prepared	20	20
1.8	Conducting practical lab. / tutorials; work nicely with lab innovations	20	practice 1's conducte	15	15
1.C	Student Feedback outcome	10	Feedback tellen,	10	10
2.A	Remedial Classes OR Extra lectures for DSE students	4	Remedil clan hillen	4	4
2.B	Content beyond syllabus	6	completed	3	3
3.A	Preparation and Imparting of knowledge / instruction as per curriculum;	10	prepared a file os	7	7
3.B	syllabus enrichment by providing additional resources to students	10	yes provided	8	8
4.4	Number of ICT Based Teaching material	5	As per curriculus	5	5
4 B	Number of Interactive Courses	5	·Yes,	5	7
4.0	Effective use of MOODLE	tive use of MOODLE 10 15 Feekive use of another with which the		nukey 10	10
5.A	At Institute Level	15	organised woold	12	12
5.B	At University Level	10	nicely day	5	C
Total Score		125		105	105
Minimum API Score Required		75			

Performance Appraisal Form Page 1 [2022 - 23]

٨

CATEGORY II: CO-CURRICULAR, EXTENSION AND PROFESSIONAL DEVELOPMENT RELATED ACTIVITIES.

Brief Explanation: Based on the teacher's self-assessment, category II API scores are proposed for co curricular and extension activities; and Professional development related contributions. The minimum API required by teachers for eligibility for promotion is 15. A list of items and proposed scores is given below. It will be noticed that all teachers can earn scores from a number of items, whereas some activities will be carried out only by one or a few teachers. The list of activities is broad enough for the minimum API score required (15) in this category to accrue to all teachers. As before, the self-assessment score should be based on objectively verifiable criteria and will be finalized by the screening/selection committee.

1. Student related co-curricular, extension and field based activities (such as extension work through NSS/NCC and other channels, cultural activities, subject related events, advisement and counseling)

2. Contribution to Corporate life and management of the department and institution through participation in academic and administrative committees and responsibilities.

 Professional Development activities (such as participation in seminars, conferences, short term, training courses, talks, lectures, membership of associations, dissemination and general articles, not covered in Category III below)

Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1.A	Guidance to a project in exhibition / competition won any prize. Industry Sponsored projects.	4		-	
1.B	Industry tour / visit, Visit to technical Exhibition	4	Yes planned conducted	4	4
1.C	Arranged the invited talks / Expert lecturers at Department / Institute level	4	Yes, amayed	4	4
1.D	VAP (Value addition training Program) conducted by a staff 40hrs / PBL/ New tech with projects. Conducted the lectures in GATE Forum OR Recourse persons for Skill Development Program.	4		-	
1.E	extension work through NSS/NCC and other channels, cultural activities	4			
2.A	Institute level Responsibilities (Deans/COE: 05, Heads:3, other:02)	5	Dean responsibility	5	5
2.B	Event Coordinators (Institute Level: 05,Department Level: 03,Participation:02)	5	projet exhibi	3	3
2.C	Department Level Responsibilities: 05.Participation:02	5	IQAE, coordinuto	* 2	2
3.A	Participation in short term training courses, A curriculum development, training courses, talks, lectures		Attained	5	5
3.B	Membership of professional associations committees, Boards of Studies, editorial committees of journals / institutional publications.	5	1ETE	5	5
3.C	Participation in subject associations, conferences, and seminars without paper presentation.	5	yes, pash cipated	2	2
	Total Score	50			
	Minimum API Score Required	20		30	.30

Performance Appraisal Form Page 2 [2022 - 23]

Ő

CATEGORY-III: RESEARCH AND ACADEMIC CONTRIBUTIONS

Brief Explanation: Based on the teacher's self-assessment, API scores are proposed for research and academic contributions. The minimum API score required by teachers from this category is different for different levels of promotion and between university and colleges. The self-assessment score will be based on verifiable criteria and will be finalized by the screening/selection committee.

- 1. Research Papers published in:
- 2. Research Publications(books, chapters in books, other than refereed journal articles)
- 3. RESEARCH PROJECTS
- 4. RESEARCH GUIDANCE
- 5. TRAINING COURSES AND CONFERENCE /SEMINAR/WORKSHOP PAPERS

A. Refresher courses, Methodology workshops, Training, Teaching Learning Evaluation Technology Programs, Soft Skills development Program, Faculty Development Programs (Max: 30 points)

- B. Papers in Conferences/ Seminars/ workshops etc.**
- C. Invited lectures or presentations for conferences/ symposia

	Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
2	1.A	Refereed Journals *	20/ 2 publication	paper published	20	30
0	1.8	Non-refereed but recognized and reputable journals and periodicals, having ISBN/ISSN numbers	10 / 2 Publication		1	
	1.C	Conference proceedings as full papers, etc. (Abstracts not to be included)	5/2 publication	published	2.5	2.5
	2.A	Text or Reference Books Published by International Publishers with an established peer review system	20 /sole author; 5 /chapter in an edited book		1	
-	2.B	Subjects Books by National level publishers/State and Central Govt. Publications with ISBN/ISSN numbers.	15/sole author, and 5/ chapter in edited books		-	
	2.C	Subject Books by Other local publishers with ISBN/ISSN numbers.	10/ sole author, and 2 / chapter in edited books		-	
	2.D	Chapters contributed to edited knowledge based volumes published by International Publishers	S /Chapter		-	
	2.E	Chapters in knowledge based volumes by Indian/National level publishers with ISBN/ISSN numbers and with numbers of national and international directories	3/Chapter		-	
1		Sponsored Projects carried out/ ongoing				
	3.A	a) Major Projects amount mobilized with grants in between Rs.10,000 to Rs.50,000/-	10/2 major project	spondered Anglades	10	10
-		b) Minor Projects (Amount mobilized with grants upto Rs.10,000/-	7 /2 minor Project		-	
	3.8	Consultancy Projects carried out / ongoing: Amount mobilized with upto Rs.15,000/-	10 considency		-	
	3.C	Completed projects Quality Evaluation: Completed project Report(Acceptance from funding agency)	7 /each major project and 5 /each minor project		~	
	3.D	Projects Outcome / Outputs: Patent/Technology transfer/ Product/Process	7 / each state level output or pasers / j4 /each for nutional level		-	

Performance Appraisal Form Page 3 [2022 - 23]

-				
4.A	M.Tech/M.Phil- Degree awarded only	2 Teach		
	Ph.D.			
4.B	a) Degree awarded	4 /au/h		
	b) Thesis submitted	1/mch	-	
5.A	a) Not less than two weeks duration	T/wards		
	b) One week duration	3/665	20	20
	Participation and Presentation of research papers (oral/poster) in			
	a) International conference	****	8	8
5.8	b) National conference	6/ each	-	
	c) Regional/State level	e /sech	-	
	d) Local – University/College	3/100:3	-	
	a) National level	5 /esch	-	
5.C	b) State level	2/each	-	
	Total Score	175	-	
	Minimum API Score Required	70	70.2	70.2

*Wherever relevant to any specific discipline, the API score for paper in refereed journal would be augmented as follows: (i) indexed journals - by 5 points; (ii) papers with impact factor between 1 and 2 by 10 points; (iii) papers with impact factor between 2 and 5 by 15 points; (iv) papers with impact factor between 5 and 10 by 25 points.

** If a paper presented in Conference/Seminar is published in the form of Proceedings, the points would accrue for the publication (III (a)) and not under presentation (III (e)(ii)). Note: The API for joint publications will have to be calculated in the following manner: Of the total score for the relevant category of publication by the concerned teacher, the first/Principal author and the corresponding author/supervisor/mentor of the teacher would share equally 60% of the total points and the remaining 40% would be shared equally by all other authors.

supporting documents, wherever required be attached.

	Category I	Category II	Category III	Total Score
Total Score	125	50	175	350
Minimum API Score Required	75	20	70	165
Total Self-Assessment Score	105	30	70.2	205.2
Score by Screening/ selection committee	105	30	70.2	205-2

0

Date: 25108123 Place: Scotarg

Signatul

Recommendation by screening team (Academic Monitoring Committee):

Member AMC

Head of Department .

Smoll Registrar

Dr. Vilas Pharande Principal

Arvind Cavali College of Engineering Panmalectadi, SATARA

Performance Appraisal Form Page 4 [2022 - 23]

5.9 Visiting/Adjunct/Emeritus Faculty etc.

Adjunct faculty also includes Industry experts. Provide details of participation and contributions in teaching and learning and /or research by visiting/adjunct/Emeritus faculty etc. for all the assessment years:

- Provision of inviting/having visiting/adjunct/emeritus faculty(1)
- Minimum 50 hours per year interaction with adjunct faculty from industry/retired professors etc.

(Minimum 50 hours interaction in a year will result in 3 marks for that year; 3 marks x 3 years = 9 marks)

A.Y.	Name of Faculty	Class	Subject	Duration
	Adv. Dhanashri Ghorpade	SY-IV	Basic Human Rights	36
	Dr. Sanjay Lawand	TY-V B. Tech-VII	Training and Placement	28 30
	Mr. Sanjay Lawand	TY-VI B. Tech-VIII	Training and Placement	32 30
2020-21	Mr. Anup Hingmire	SY-III T.YIV	Physical Director	34 30
	Mr. Anup Hingmire	SY-IV T.YVI	Physical Director	30 30
	Dr.Patil Priyanka Mahesh	SY, TY, Final Year B.Tech	Medical Councilor	12
	Adv. Arundhati Ayachit	SY-IV	Basic Human Rights	36

(10)

2021-22		TY-III	Campus to	28
	Mr. Ajay Arora	T.YIV	Corporate	30
	Mr. Ajay Arora	TY-IV	Campus to	32
	rii. Ajay Alora	T.YVI	Corporate	30
	Mr. Anun Hingmire	SY-III	Physical	34
	Hit. Andp Hinghine	T.YIV	Director	30
	Mr. Anun Hingmiro	SY-IV	Physical	33
	M. Anup minghine	T.YVI	Director	30
	Dr. Patil Priyanka Mahesh	SY, TY, Final	Medical	12
			counciliors	
	Adv. Devendra Divit	SY-IV	Basic Human	36
			Rights	50
	Mr. G. George	SY-III	Campus to	30
	Mi. d. George	T.YIV	Corporate	30
	Mr. Santosh Nalawade	SY-IV	Campus to	28
	Mr. Saurabh Bhosale	T.YVI	Corporate	30
2022-23	Mr. Anun Hingmire	SY-III	Physical	30
	· · · · · · · · · · · · · · · · · · ·	T.YIV	Director	30
	Mr. Anun Hingmire	SY-IV	Physical	30
	Fin Andp finightre	T.YVI	Director	30
	Dr.Patil Priyanka Mahesh	SY, TY, Final Year B.Tech	Medical Councilor	14

CRITERION	FACILITIES AND TECHNICAL	80
06	SUPPORT	

6.1 Adequate and well equipped laboratories, and technical manpower(30)A. Adequate well-equipped laboratories to run all program-specific curriculum(20)

Mechanical Engineering Department provides adequate & well equipped laboratories & technical manpower as per the norms. Some major equipment in each laboratories mentioned in table no. 6.1 & also mentioned technical staffs details

	Name of the	No. of students	Name of the	Weekly utilization status (all	Technical Manpower support		r support
Sr. No.	Laboratory	per setup (Batc h Size)	Important equipment	the courses for which the lab is utilized)	Name of the technical staff	Designation	Qualification
1	Machine Drawing and CAD Laboratory (311)	20	Creo element Pro Uplus Bundle with CAD/CAM/CAE tools from PTC	24	Mr. A. J. Shinde	Lab Assistant	Diploma Mechanical
2	Theoryof Machine Laboratory (312)	20	Motorized gyroscope. Epicyclic Gear Train Model. Static and dynamic machine, Vibe-lab, Whirling of shafts, Generationof involute profile.	18	Mr. A. J. Shinde	Lab Assistant	Diploma Mechanical
3	Mechatronics Laboratory (319)	20	Hydraulic trainer kit, Pneumatic trainer kit, Hydraulic power pack, Filters and strainers, Different switches/sensors/valves	12	Mr. A.V. Jamadade	Lab Assistant	Diploma Mechanical
4	Fluid Mechanics and material science Laboratory (309)	20	Bernoulli's theorem apparatus, Venturi Meter and Orifice meter, Reynolds experiment, Minor and major losses in pipes,	12	Mr. A. J. Shinde	Lab Assistant	Diploma Mechanical

Table 6.1: Details of Laboratories, Equipment and Technical Manpower

			Orifice meter,				
			Metacentric height of				
			ship,				
			Optical microscope				
			Set ups for				
			measurement of				
			thermal conductivity of				
			insulating powder,				
			thermal conductivity of				
			composite wall.,				
			Thermal conductivity				
			of metal rod., Natural				
			convection apparatus.,				
			Forced convection				
			apparatus., Emissivity				
5		20	measurement	10	Mr. A.V.	Lab	Diploma
5		20	apparatus, Vertical	18	Jamadade	Assistant	Mechanical
			profile projector, set of				
			slip guage-83				
			(Mitutoyo make) =1				
			set., floating carriage				
			micrometer with l.c				
			0.001mm electronic				
	Heat Transfer/		micrometre, thread				
	Metrology &		plug 1nos measuring (2				
	Quality Control		wire) 1 pair and setting				
	Laboratory		master 1 no. prism pair				
	(308)		1 no				
			Computerised VCR				
			diesel engine set up, 3				
			Cylinder 4 Stroke				
6		20	petrol engine test ring	06	Mr. A. J.	Lab	Diploma
U		20	with electrical	00	Shinde	Assistant	Mechanical
	I.C. Engine		dynamometer Delta 3D				
	Laboratory		Printer, Dig iPro 3D				
	(009)		Model XFAB200				

6.2 Additional facilities created for improving the quality of learning experience in laboratories (25)

Mechanical Engineering Department provides extra facility beyond syllabus in some laboratories. These facilities provide service to the students & also help to the project work. The details of facilities are mentioned in table no. 6.2.

Table 6.2: Details of Additional Facilities Created for improving Quality of Learning	g
Experience in Laboratories	

Sr · N o.	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students' are expected to have enhanced learning	Relevance to POs/PSOs
1	Smart Class Room	• E-board and projector facility with a seating capacity of 60. • Fully equipped with furniture and teaching aids	• Smart classroom is used for animated visuals and video lectures. • These visually attractive methods of teaching are sometimes more interesting as compared to teaching in a classroom.	Throughout the Year	The graphs, designs, models, simulation, and simplification of difficult subjects can be easily analyzed and visualized	PO-1, PO- 2, PO-3, PO-4, PO- 5, PSO-1
2	Seminar Hall	Fully equipped seminar hall with Computer, Projector, Student desk, White board, Air conditioner, Fan, microphone, and speaker	• To present tech talks/project seminars/rese arch papers/works hops/ industry interaction/ presentation	Throughout the year	To improve students' personality according to industry standard	PO1,PO-2, PO3, PO5, PSO1, PSO2

	n					
		with the capacity of 500.				
3	Lab manuals along with instruction materials.	Manuals are provided to students for all practical subjects of the program.	 To create an understanding of the experiment and inform the need of conducting the same. Students can understand the concept of the experiment in a better manner. To maintain the practical lab record using the lab manual 	Throughout the year	 Testing, performance, and analysis of different electronics and communications lab Better usage of hardware and software tools. 	PO1, PO-2, PO3, PO5, PSO1, PSO2
4.	Departmen tal Library	The departmenta l library has a collection of textbooks, reference books, project/semi nar reports	To provide academic support to students. • To provide advanced information on the seminars and projects.	Throughout the year	Gathering new information, getting to know different topics for the overall development of the students.	PO1, PO-2, PO-4, PSO-1, PSO-2
5	Training and placement classes	Training on reasoning, group discussion, and technical skills by experts	Job-oriented training to improve logical reasoning and technical skills.	Throughout the year	Employability and entrepreneurship	PO4, PO5, PO8 & PO12
6	Aptitude Classes	Training on aptitude	Improve logical reasoning and technical skills	Throughout the year	Employability andentrepreneur ship	PO4, PO5, PO8 & PO12
7	Virtual Lab	Perform online experiments as an additional facility	Providing online practical exposure to the students	Throughout the year	Employability and entrepreneur ship	PO1,PO2, PO3,PO5,PO 12

		through a virtual lab				
8	Internet Facility	Internet facility with bandwidth 300 Mbps and Wi-Fi of 3 Mbps/User is provided	Seminar/Mini projects/ Assignments/Self learning	Throughout the year	Courses specified in curriculum, to access Moodle	PO5, PO8, PO10, PO12
9	NPTEL Local Chapter	Institute having NPTEL Local Chapter and server of NPTEL Content	To keep student abreast with the latest technology	Throughout the year	To grasp important concept of various subjects and modern tools used in computer science and engineering	PO1, PO2, PO3, PO5, PSO2
10	Digital Library	Del Net	To keep student abreast with latest technology, To provide national level platform to the students	Throughout the year	Project Works	PO1, PO2, PO3, PO5, PO12, PSO1
11	Surveillance cameras for exam rooms	IP cameras	To enhance the security of the department	Throughout the year	Security purpose	PO5, PSO1
12	Moodle Learning Management System	Institute having separate Moodle learning management system to provide digital content	For online digital record maintenance like attendance, examination results, feedback For sharing digital study material	Throughout the year	Courses specified in Curriculum	PO5, PO8, PO10, PSO1
13	Refrigeratio n and Air conditioning and other thermal engineering equipment	Refrigeration test rig, Air conditioning test rig, Ice plant test rig, Vapour absorption test rig, Grease penetrometer., redwood viscometer., Cloud and	To enhance the knowledge and practical exposure and utility of the facility for low temperature applications	Throughout the year	Project Works	PO1, PO2, PO3, PO5, PO12, PSO1

		pour point., Aniline point apparatus., Flash and fire point., Carbon residue apparatus.				
14	3 D Printer	Construction of 3D objects from CAD od digital 3 D model	To demonstrate new additive manufacturing technologies	Throughout the year	Research work and project	PO1, PO2, PO3, PO4, PO5, PO 9, PO12, PSO1
15	Manufacturi ng process equipment	Sieve analysis apparatus, Muffle furnaces, Rammer	For fabrication of components	Throughout the year	Project Works	PO1, PO2, PO3, PO4, PO5, PO 9, PO12, PSO1

6.3 Laboratories: Maintenance and overall ambiance

(10)

6.3.1 Maintenance and Records

Department has Full furnished State of Art laboratories with well-equipped equipment which shall cater to UG course as per curriculum requirements. The central policy at institute level is followed for maintenance of laboratories and overall ambience as mentioned below:

1) Maintenance in Laboratories-:

- 1. All the equipment in the Laboratory is maintained on a regular basis by the concerned laboratory technicians under the guidance and supervision of the laboratory in charge
- 2. Equipment is marked with indelible ink marking to identify.
- 3. General servicing is done during summer vacation before commencement of academic year. Servicing is also done whenever necessary. Calibration is being done to the equipment whenever needed.
- 4. Electrical fitting is checked in on regular basis by electrician.
- 5. As per the requirement, minor repairs are carried out by the lab assistant.
- 6. Any equipment which is found defective or out of calibration shall be immediately withdrawn from services.



Fig. 6.3.1 a Flow Chart of Lab Maintenance Process

1) Records-:

A) Dead Stock Register-:

- 1) To maintain inward record of all equipment, tools in proper way.
- 2) A register containing details of equipment, tools, suppliers with perspective with date, time, purpose & signature mentioned.

B) Laboratory Manual -:

- 1) Separate lab manual is available in every lab & maintain properly.
- 2) To provide a stepwise experiment procedure to conduct experiments safely and a written format to make a report of lab experiment.

C) Logbook-:

- 1) Logbooks are available in every lab & maintained regularly by lab in charge.
- 2) Experiment conduction details & lab user's details are mentioned in the logbook.

D) Laboratory time-table-:

- 1) Batch wise laboratory Time Table is displayed in every lab.
- 2) To know the engagement of the students as well staff and technical manpower concerned to the lab so the floating of the lab utilization can be managed time to time.
- 3) Lab utilization is done as per the laboratory timetable.

E) Purchase orders and bills-:

1) Purchase order Xerox copy & billing details of lab equipment every lab are maintained further contact and maintenance aspect.

G.	Bill No. & Oat	e Details of the supplier	Description of Material	Rate	Quantity Purchased	Cost (including taxes)	Dead Slock No.	Intelligence in the second				
+								arsaant niç & çlata	Signature of Lab Assistant	Signature of Lab Incharge	Signature of HOD	Rem
+	MRSINH	Mis-modesta	orphicel									
ť	1207	Retrigeration	Mauthpiece	39000	1	33750/-	RECENT-121	1501	Æ	- 2 mile Lan	Congen Submer	A
ť	4 10 May 11	GAR LAL CWARD	Apparatus				or11-01(143)/	7/10/11		See Deputing	and Memperature	Dr. Vitas Ph
		XAR IL MEXATOR					Mbrog/at-01				Arvis	Princip Gavili Control Parmalewist
-		industrial estuts,										
_		soogali-mixui										
-		(uxin, brock										
-		416.919 Metropasht	h									
-	ti la	India da la secoloria										-
	6	eletus - menersas								1		
				-								
_												-
_												-
_											-	
_												-

Fig. 6.3.1 a. Sample of Dead Stock Register



Fig. 6.3.1.b. Sample of Lab Manual

Specim	Arvind Gavali College Of Engineering.S Department of Mechanical Engineering $\frac{Ma}{2} = \frac{9 \times 89}{4} + 3 \cdot 3 \cdot 3 \times 10^{-3} \times 10^{-3} \pm \frac{3 \cdot 1203 \times 10^{-3}}{2 \cdot 3 \cdot $	atara ng -3kalu -3kalu (43415- (43415- (43415-	Class Subjet Name Name Instru Obser 1. Ob	Arvi TY TY Hec Of Experim Of Faculty: Of Technica ment: H rations: atter dic ones: dic	Bankin Bankin I Transf Murchan Prof a I Animan col Transf a of pipe a of pipe	i Colle nt of M LC BL cr mine 1 cf ai hadse (Po)	Acha Acha	f Enginical DOK Date:	ineer Engi	ing,S neeri هر د ده	Satar	a. <u>8110</u>	<u>-</u> 4:56
Result & 1	Calculation :-		3_L 4_ 8_	ength o Dia of Coefficie	e test s onifice (oni of u	d) · c	0-014 r (\$10)	+ 100 1 - 100	0 2 31	0.4 m	0		
Result & o	Calculation :-		2 1 2 1 4 3	ength o Dia · of Coefficie	e fest s orifice (ent of u	d) + C	(\$10)	- 100	0 × 31	0.4 m	1		-
Result & s	Calculation :- Name	Sign	2 L 4 S Obser	ength o Dia · o F Coefficie nations Table UOMS (V)	c test : onifice (oni of u e:- Current (3)	d) + C		100 1 - 100	une (0.4 TT m0	n	Hanome	Lev Lev
Result & A	Calculation :- Name Rushikeab Dilip Craikwad	Sign	L L A S	ength o Dia.of Coefficie voltos (v)	current (1)	pecime d) · c onter Ti	- Tem	tion i ion perati	0 × 31 u +e 1	0-4 T m ³ (**) T5	Te	Han ome kead in water	Lev Lof
Reall &	Catendations: Name Rushikesh Dilip Araikwad Vaishnavi Sakish kamble	Sign Careford V.3. Core	L L S Obser	ength o Dia.oF Coefficie rations Table UOKS (V)	Current (1) 0.41	Ti 39.44	- Tom To To To	+100 1 = 100 perali	0 2 91 0 2 91 une 1 Ty 44.3	(*/) T5	Te	Han omte Reading Water	Lev 3 of
Result &	Name Rushikash Dilip Qaikwad Vaishayi Satish kamble Sanjana Sanhaji Jadhay	Sign Colors Victor	L L S Obser	ength o Dia.oF Coefficie Volks (V) Ta	crifice (crifice (crific	Ti 39.24	-Tom 46.3	4100 1 5 100 Perali T3 444	(1) = 0 tgi une (Ty 44.5	0.4 m m ^a (*e) Ts 46.5	Te	Han ome Read in: water 44	Lev Laf mind
Result & - Roll No. 2022 -012 1 8420	Cakeulations:- Name Rushikeah Dilip Craikwad Valahawi Sahish kamble Sanjara Sambhaji Jadhaw Athaw Rajendra Dhare	Sign Court Victor Salas Court		ength o Dia of Coefficie voltos (v) 40	15 fest 1 0 rifice (2 nl of us 1 - (1) 0.41 0.41 1 'b'	Ti 32.54	-Tom 46.8	4100 1 5 100 perali T3 444	(1) = 0 tg1 une 1 Tu 04.3	0-4 m m3 (*r) Ts 46:s	Te 423	Hanomie Readin Water 44	Nev 3 of Inima
Roll No. 092 012 50 80 20 50 20 50 20 50 20 50 20 50 20 50 20 50 20 50 20 50 20 50 50 50 50 50 50 50 50 50 50 50 50 50	Calculations: Name Rushikeah Oilip Craikwad Vaishnavi Sakish kamble Sanjana Sambhaji Jadhav Mhave Rajendra Dhane Ryush Dathatray Jadhav	Sign Course Halo Halo	L L L S S N H S T T	ength o Dia of Coefficie volts (v) to tactically	$\begin{array}{c} & & & \\$	pecime d) - c onter T1 3924 T2+T4	- Tom 46.3	4100 1 - 100 perals T3 444 44	(1) = 0 2 31 11 4 11 4 11 4 11 4 11 4 11 4 11 4 1	0.4 m m ³ **) T5 46.5 4.14	Te 43.5 49.5 4	Han omt Read (n Water 4 4	AKEY 3 of inima
Roll Na. 00.35 0.22 0.12 1 %30 30.90 aculty	Name Rushikaah Dilip Qraikwad Valahavi sahish kamble Sanjara Sambaji Jadhav Atharv Rajendra Dhane Ryush Dallahay Jadhav	Sign CHA Sala Bala Bala	A A C Observed A A A A A A A A A A A A A A A A A A A	ength o Bia.of Coefficie adom Tahl Volks (V) 40 act [call	$\begin{array}{c} c & c & c & c & c \\ c & c & c & c & c \\ c & c &$	Peclime d) - C DateT T, 32.4 TatT4 4 3.535	1 [sec 0.014 r (\$ w) Tom To 46.8 415 C	4100 1 - 100 perati T3 444 44	(1) = 0 tg) une (Ty 44.8 1) 44.	0-4 m ma (* e) Ts Na s 4 + 4	Tu 43.5 4.5 4	Han offic Read in water 4 4	Aver 3 of inimi
Roll No. 0922 018 19 000 000 000 000 000 000 000 000 000	Cakeulations: Name Rushikeah Dilip Craikwad Vaishaavi Sathish kanshe Sanjara Sanshaj Jadhav Athav Rajendra Dhane Ayush Dathatray Jadhav	Sien Guid Valoo Salo Auto	a d s Ohur SN Ha	ength o Dia.of Coefficie votions Table votis (9) 40	if 3 eif 1 onifice 2 0 6 znl of 10 10 (1) 0 4 10 (1) 0 4 10 (1) 0 4 10 (1) 0 4 10 (1) 0 4 10 (1) 0 4 10 (1) 0 4 10 (1) 0 4 10 (1) 10 10 10 (1) 10 10 10	Pecime d) - c onter T, 31.24 11 31.24 11 31.24 11 11 11 11 11 11 11 11 11 1	1 1 1 4 ec 0. 0 1 4 e 0. 0 1 4 e 0. 0 1 4 e 1 4 e 1 1 5 1 1 1 5 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4100 1 - 100 perati T3 444 444	(1) = 0 tg1 une (0 tg1 une (0 tg1 une (0 tg1 une (0 tg1 une (0 tg1) une () une	0.4 m ma (* e) Ts 46.5 4 + 4 4	Te 42.3 4-5 4	Han omt keadin water 44	i nim)
Roll No. 00.005 00.02 012 012 00 00 00 00 00 00 00 00 00 00 00 00 00	Cakeulations: Name Rushikeab Dilip Craikwad Yaishnavi Satish kamble Sanjana Sambhaji Jadhav Alharv Rajendra Dharre Ryush Duthatray Jadhav Deshmukh Shubhangi sadashlu Phane Satishna	Sign Guide Side Side Anthe Anthe	A L A C Observed A C A C A C A C A C A C A C A C A C A	ength o Dia-of Coefficie without Table Uolds (V) 40	$\frac{1}{1} \frac{1}{1} \frac{1}$	Pecime (d) - (c) pater T) 3824 1 1 3424 1 1 1 2	1 [sec 0.014 c (\$ w) Tom To 46.3 113 2 2 2 2	4100 1 - 100 perati T3 444 40.	() = 0 tg1 une 1 Ty 44.3 31-44- 1-45- 2:	0-4 m m3 (* e) T5 46-5 4 + 4 4 4	Te 43.3 4-3 4	Han offic Reading Water 44	i di
Roll No. 00.05 00000000	Calculations: Name Rushikeah Dilip Craikwad Vaishnaui Sahish kamble Sanjana Sambhaji Jadhau Phane Rajendra Dhune Ayush Dultahay Jadhau Deshmukh shubhangi sadashlu Mane Rochhamegh samjay	Sign Could Hall		ength o Dia.of Coefficie votors Table Uotts (V) 40 acticall	$\frac{1}{10000000000000000000000000000000000$	Pecime d) + c onter T, 3924 Tal+T4 14 2 42.0 °C	- 14ec - 0 14 c (5 w) - 1 c m - 1	4100 1 - 100 perati 444 40. -	() = 0 tg1 une ("Ty 44.3 1) 44. 1) 44.	0-4 m m3 (* e) T5 46 S 4 + 4 4 9	Te 453	Han ome Read in Water 44	A CONTRACT

Fig.6.3.1.c.Sample log book

.

1 · ~ .

Samarth Education Trust's

.

.

Arvind Gavali College of Engineering

At- Panmalewadi, Post-Varye, Satara

DEPARTMENT OF MECHANICAL ENGINEERING

				IC	ENGINE LAB				
Acade	emic Year: 2021-22	TIMETABLE			(Even Sem)				
AVG	10:00 - 11:00	11:00 - 12:00	12:00 - 12:40	12:40 - 01:40	01:40 - 02:40	02:40 - 03:00	03:00 - 04:00	04:00 - 05:00	05:00 - 05:20
VAUNDAY				SI-III- ICE (C	SSS) (WW119)				
TUESD				DI-IV -ICE (C	SSS) (WW119)				
WEDNES			Recess	SI-IV ICE (GSS) (WW119) MI-III- ICE (GSS) (WW119)		kecess			
THURSA									
FRIDAY	MI-IV- ICE (G	SS) (WW119)		. ,		_	MI-IV- ICE (G	SSS) (WW119)	

(Mr. Patil S.P.)

Princing (Dr. Pharande V.A.) Arvind Gavali College of Engineering Panmalewadi, Satara

Figure 6.3.1 d Sample laboratory Time Table

RI Diging 2D		ESTI	MATE
UgiPro 3D		GST NUMO 27A	APT DEBUSG120
	H.	No. 184, Sr. No. 13, Sata Pune, Mah	DigiPro 30 vwadi, Hadapsa sarashtra 411028 India
		Mobile: + ww	91 8080 210 534 w.digipro3d.con
BILL TO Arvind Caudi Callege of Sectors	E	stimate Number: MH/2	020/212
Principal		Estimate Date: June	17, 2021
India		Expires On: July 2	, 2021
shivadeanand@yahoo.in	G	irand Total (INR): ₹85,0	00.00
Items	Quantity	Price	Amour
DigiPro 3D XFAB Printer Model: XFAB 200 Bed Size: 2004200x200 mm 32 bit controller Touch Screen Interface Print Resume function	1	₹72,033.90	₹72,033.9
		Subtotal:	₹72,033.9
		SGST 9%:	₹6,483.0
		CGST 9%:	₹6,483.0
		Total:	₹85,000.0
		Grand Total (INR):	₹85,000.0
Notes / Terms		Luw	in) u
Terms and Conditions: 1. 100% Payment in advance.		After owner	convert
 For customize 3D printer manufacturing delivery ti We offer 12 month warranty on 3D Printer except 	ime varies from 15 to 20 days. consumables.	4.03	mycherv
a second s	and period anoogn man, chat, s	Alle and care pl 100	(Nam)+
 After sales service support is available during wan Subject to Pune jurisdiction. 			neer
 After sales service support is available during wan 5. Subject to Pune jurisdiction. Payment Details: Bank Name: State Bank of India (SBI) Branch: Viaynagar Chowk, Sangli 		69-13-1	

Figure 6.3.1 e. Sample of Purchase Bill

022 - 23)252 Quantity Amount 4200 21	Date: Rate	G 02 2023 Amount Rs. Ps. 96,300-00
Quantity Amorrat Mac gauge 1	Rate	Rs. Ps. 96,300=00
nuc danke 1 7 7 7		96,300-00
mac gange 1		
1 grange 1		9,000 000
		4,800 =00
1		4,900-00
4		7,700-00
1		4000-00
4		\$ 700 =00
3		d. 700=00
- 4		0 600-00
19 1		6 900-00
1		2 900:00
4		700-00
innucling 1		0 1 00=00
Igmetes +		1000100
ty language J		0,00000
. Incorral 1-		170 200-01
201	AUCONP	- 57 640:0
	Total	125160-0
		12310000
FIVE Thousand.	one hyno	exa survey on
		U.B. EUCODESSI
		V. R. ENGLISTIC
terashtra Value Added Tax Act 2002.		
tarashtra Value Added Tux Act 2002, x Invoice is made by melus and that i by melus and it shall be accounted y, poyobis on the talle has been avril		Y: Mandano 4
	ig 1 ig 1 ig 1 ig 1 iometer 1 iometer 1 ichew Purchas 1 ix (Mew Aug 1 301. Five Thousand.	ig 1 ig 1 ig 1 ig 1 iometer 1 chew purchas 1 ex (mewpurchas) 1 ex (mewpurchas) 1 additional and a second and a second and a second

Figure 6.3.1 e. Sample of Purchase Bill

3. Overall Ambience:

Equipment:

- 1. All laboratories are well furnished with all the necessary equipment/ instruments.
- 2. All equipment are maintained in good working condition.

Accommodation and Environment:

- 1. The laboratories are provided with adequate working space.
- 2. Dos and Don'ts and Safety measures rules are displayed in each laboratory.
- 3. Proper seating arrangement is provided for the students and the faculty.
- 4. Laboratory manuals are available in the all laboratories.
- 5. Sufficient numbers of windows are available for ventilation.
- 6. Lighting system is very effective, along with the natural light in every laboratory.
- 7. It is maintained with cleaning, sweeping and washing.

6.4 Project laboratories (5)

Total Marks 5.00 Institute Marks 5.00

Central workshop has dedicated space allotted for project work with basic manufacturing facilities, machining processes for individual work, project work, commercial consultancy and event work.



Fig. 6.3.2 Project Laboratory

Table 6.4a: List o	of components	provided in	project la	aboratory
--------------------	---------------	-------------	------------	-----------

Sr.	Components	Purpose
No.		
1	Compressor	To provide compressed air
2	Rheino Motors	High torque high RPM applications
3	Small Spanner Set	Handling of small nuts in assembly and disassembly of
		various devices
4	Pneumatic Cylinder	Linear actuations applications
5	Dcv	Direction Control (Pneumatic)
6	Mini Screw Driver Set	Handling of small screws in assembly and disassembly of
		various devices
7	Portable Drill Machine	Hand drilling
8	Pressure Regulator	Regulating pneumatic pressure
9	MIG Welding Setup	Fabrication work
10	Milling Machine	Pipe Development. Milling Operations
11	Hydraulic Hack Saw	Precision cutting of large diameter components in large

AGCE, Satara

	Machine	quantity
12	Oxy Acetylene Welding	TIG project fabrication work
	Setup	
13	Radial Drill Machine	Drilling of large holes beyond capacity of sensitive drill
		machine
14	All Geared Lathe	Turning operations performed on job which are larger
		than capacity of belt driven lathe machine
15	Arduino Boards	Micro-Controllers

Table 6.4b: List of additional facilities provided in project laboratories

Sr.	Name of the Facility	Utilization
No.		
1	All Geared Lathe	Turning operations performed on job which are larger
		than capacity of belt driven lathe machine
2	Angle Grinders	Project fabrication work
3	Anvil, Sewage Block	Hot / cold forging
4	Arc Welding Transformer	Fabrication work
5	Bench Drilling Machine	Drilling up to 10 mm holes
6	Bench Vice	Woodworking
7	Bench Vice	Tool and cutter grinding
8	Bubble Level Indicator	Precise leveling
9	C Clamps	Work holding
10	Chain Vice	Holding components
11	Chop Saw Machines	Project fabrication work
12	Hand Shearing Machine	For cutting of up to 2mm thick sheet
13	High Torque Spanner Sets	Precise tightening of bolts assembly
14	Hydraulic Hack Saw	Precision cutting of large diameter components in large
	Machine	quantity
15	Internal & External Calipers	For precise measurement of external and internal
		diameter
16	Jig Saw Machine	Slotting operations
17	Medium Duty Lathe	Turning operations performed on job which are having
		maximum diameter 100 mm.
18	MIG Welding Setup	Project Fabrication work
19	Milling Machine Pipe	Milling operations
	Development.	
20	Oxy Acetylene Welding	TIG project fabrication work
	Setup	
21	Pipe Threading Set	For external fittings and threading
22	Pipe Vice	Pipe holding for threading, fitting etc.
23	Plastic Injection Moulding	For manufacturing plastic components
	Machine	
24	Ply Cutter	Ply cutting
25	Radial Drill Machine	Drilling of large holes beyond capacity of sensitive drill

		machine
26	Resistance Spot Welding	Machine fabrication work
27	Surface Grinding	Precise surface finishing
28	Surface Planner	Circular saw wood working
29	Surface Plate	Precise measurement
30	Vernier	Precise length measurement
31	Vernier Height Gauge	Precise height measurement
32	Wood Turning Lathe	Wood working

6.5 Safety measures in laboratories (10)

Total Marks 8.00

Institute Marks: 8.00

Sr. No	Laboratory Name	Safety Measures	
1.	Machine Drawing and CAD	1. Sufficient space is available for easy and	
	Laboratory (311)	free movement in the lab.	
		2. Laboratory apparatus are regularly	
		inspected to ensure proper maintenance.	
		3. Proper illumination is available in the lab.	
		4. Electrical devices are periodically inspected	
		so that the electrical equipments remain in	
		good condition and no power cords are	
		frayed or have exposed wiring.	
		5. Do's & Don'ts are displayed in each	
		laboratory.	
2.	Theory of Machine Laboratory	1. Sufficient space is available for easy and	
	(312)	free movement in the lab.	
		2. Laboratory apparatus are regularly	
		inspected to ensure proper maintenance.	
		3. Proper illumination is available in the lab.	
		4. Electrical devices are periodically inspected	
		so that the electrical equipments remain in	
		good condition and no power cords are	
		frayed or have exposed wiring.	
		5. Do's & Don'ts are displayed in each	
			laboratory.
----	----------------------------------	----	--
3.	Mechatronics Laboratory (319)	1.	Sufficient space is available for easy and free
			movement in the lab.
		2.	Laboratory apparatus are regularly inspected to
			ensure proper maintenance.
		3.	Proper illumination is available in the lab.
		4.	Electrical devices are periodically inspected so
			that the electrical equipments remain in good
			condition and no power cords are frayed or
			have exposed wiring.
		5.	Do's & Don'ts are displayed in each
			laboratory.
4.	Fluid Mechanics and Material		1. Sufficient space is available for easy and
	Science Laboratory (309)		free movement in the lab.
			2. Laboratory apparatus are regularly
			inspected to ensure proper maintenance.
			3. Proper illumination is available in the lab.
			4. Electrical devices are periodically inspected
			so that the electrical equipments remain in
			good condition and no power cords are
			frayed or have exposed wiring.
			5. Do's & Don'ts are displayed in each
			laboratory.
5.			1. Sufficient space is available for easy and
			free movement in the lab.
			2. Laboratory apparatus are regularly
			inspected to ensure proper maintenance.
			3. Proper illumination is available in the lab.
			4. Electrical devices are periodically inspected
			so that the electrical equipments remain in
	Heat Transfer/ Metrology &		good condition and no power cords are
	Quality Control Laboratory (308)		frayed or have exposed wiring.

Department of Mechanical Engineering

		5. Do's & Don'ts are displayed in e	each
		laboratory.	
6.		1. Sufficient space is available for easy	and
		free movement in the lab.	
		2. Laboratory apparatus are regul	larly
		inspected to ensure proper maintenance.	
		3. Proper illumination is available in the la	b.
		4. Electrical devices are periodically inspe	cted
		so that the electrical equipments remai	n in
		good condition and no power cords	are
		frayed or have exposed wiring.	
		5. Do's & Don'ts are displayed in e	each
	I.C. Engine Lab (009)	laboratory.	

CRITERION	CONTINUOUS IMPROVEMENT	50
07		

7.1. Actions taken based on the results of evaluation of each of the Pos & PSOs (20)

PO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Target	2.40	2.36	2.04	2.23	2.48	1.79	1.72	1.64	2.02	1.81	1.88	1.80	2.21	1.62
Attainment	2.60	2.50	2.34	2.43	2.48	2.34	2.25	2.37	2.23	2.25	2.38	2.26	2.44	2.24

POs and PSOs Attainment Levels and Actions for improvement: 2022-23



Figure.7.1a PO Target vs. PO Attainment for year 2022-23

PO's	Target Level	Attainment Level	Observations							
PO1: En fundamen problems	gineering ntals, and	knowledge: an engineer	Apply the knowledge of mathematics, science, engineering ing specialization to the solution of complex engineering							
PO1	2.40	2.60	Target achieved. • Due to knowledge of engineering & basic concepts							
Action 1:	: More em	phasis given	on assignment solving.							
PO2: Pro engineeri mathema	o blem ana ng probl tics, natura	alysis: Identif ems reachin al sciences, ar	y, formulate, review research literature, and analyze complex of substantiated conclusions using first principles of ad engineering sciences.							
			Target achieved.							
PO2	2.36	2.50	 Mechanical Engineering students gain problem solving and analyzing skills through various basic courses like Theory of Machines, Machine Design etc. 							
Action 1 engineeri	Action 1: Students are solved numerical assignments to identify, formulate and analyze engineering problems.									
Action 2 courses w	: Guide to which are s	o students to self-paced.	use identified online study material available like MOOCs							
PO3: Dea and design consideration	sign/devel on system ation for the tions.	lopment of so components he public hea	olutions: Design solutions for complex engineering problems or processes that meet the specified needs with appropriate lth and safety, and the cultural, societal, and environmental							
			Target achieved.							
PO3	2.04	2.34	• The courses like Projects, Basic Human Rights, QTPM, Programme core courses.							
			• Different activities carried out under NSS Camp like tree plantation, blood donation camp contributed for wellness of society							
Action 1 problems Action 2	: Students from boo Hands or	s are to be pr ks as well. h workshop co	ovided with a question bank and made to practice unsolved onducted for students.							
PO4: Corresearch synthesis	methods in of the info	vestigations including des ormation to pr	of complex problems: Use research-based knowledge and ign of experiments, analysis and interpretation of data, and rovide valid conclusions.							
			Target achieved.							
PO4	2.23	2.43	• Students are participated in various technical events.							
Action 1	: Students	are participat	ed to solve practical problems through attending Hackathon.							
Action 2:	: Emphasi	s on simulatio	ons through lab/virtual platforms.							
PO5: Mo modern e activities	odern too engineering with an u	l usage: Crea g and IT tool nderstanding	ate, select, and apply appropriate techniques, resources, and s including prediction and modeling to complex engineering of the limitations.							

			Target achieved.
PO5	2.48	2.48	• Teaching learning process is accompanied with Autocad software.
Action 1	: To achie	eve modern to	ool usage department has planned and purchased 3D printing
machine. Action 2 availabili industry s	2: Department ty of Inte supported	ment also fo lligent Intera labs helped to	ocuses on availability of modern equipment & tools like ctive Panel and projectors in classroom, industrial training, o attain.
PO6: Th assess so relevant t	e enginee cietal, hea to the prof	r and society alth, safety, l essional engin	y: Apply reasoning informed by the contextual knowledge to egal and cultural issues and the consequent responsibilities neering practice.
			Target achieved.
PO6	1.79	2.34	• It is observed that incorporation of responsibilities towards solving societal and health issues needs to be focused.
Action 1	: To unde	erstand the sa	fety concerns and social aspects; a cell of 100 students are
	working	under Nationa	al Social Service.
Action 2 emphasiz	2: Project ed.	s based on	environment, healthcare, security and social issues was
PO7: E	nvironme	ent and sus	tainability: Understand the impact of the professional
engineeri	ng solutio	ns in societal	and environmental contexts, and demonstrate the knowledge
of, and no	eed for sus	stainable deve	elopment.
			Target achieved.
PO7	1.723	2.25	Different activities carried out under NSS
			• In our curriculum Energy and Renewable Energy Sources are taught in our curriculum.
Action 1 Action 2	Different Promoted sided pap	t activities are d paperless w er for notices	e carried out under NSS such as tree plantation. ork through online submission to MOODLE and use of one on notices board and departmental paper work.
PO8: Et and norm	hics: App	ly ethical pringineering pra	nciples and commit to professional ethics and responsibilities actice.
			Target achieved.
PO8	1.64	2.37	• The ethics have to largely taken care of at all Course delivery particularly in Project and Seminar for report writings.
Action 1	: Separate for addre	GFM (Guard ssing persona	dian Faculty Member) is appointed for batch of 20 Students l issues, counseling, teaching ethics.
Action 2 industrial	: Industry ethics wh	culture awar nich includes	eness programs are organized to make students aware about session on paper publication, IPR, Plagiarism free content in
seminar a	Ind project	t report. student have	e proper uniform which indirectly contribute to teach ethical
values of	uniformit	у	

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

			Target achieved.
PO9	2.02	2.23	• Courses like seminar, project, project based learning courses laboratory involve individual and teamwork

Action 1: Encouragement to participate in various state/national, zonal, university level competition of project, sports. Participation in social activities. Various days/event organization and management by students only helped them to grow as an individual and to cooperate in team.

Action 2: TARUNAI-students annual cultural program is organized every year where in students actively participate to showcase their skill as an individual and as team

Action 3: Group discussion through enhanced activities of Projects, Mini-projects.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

			Target achieved.
PO10	1.81	2.25	• Skills of documentation, communication, presentation during project and seminar is satisfactory but due to rural background there is scope for improvement.

Action 1: In academic time table separate time slot allotted for soft skill improvement session. Special couch is appointed for the same.

Action 2: Student participated in various online soft skill development courses offered by various MOOCS platforms like NPTEL.

Action 3: Different cultural events, sports, social activities, project competition, industrial visits, Industrial training etc. contributed in students soft skill development

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

			Target achieved.
PO11	1.88	2.38	• Students are able to apply knowledge and understanding of the engineering and management principles to their project work, as a member and are able to work effectively in a team.

Action 1: Department students participated in various project competitions and secured prizes.

Action 2: Department is having MOUs with various industries. Number of projects are industry sponsored projects which helps student to learn project management and finance

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

			Target Achieved
PO12	1.80	2.26	• Students are observed to be capable for the technological development through various technical events.

Action 1: Students participation in various activities like extracurricular, project competition developed their lifelong learning ability.

PSO1: The students will be able to acquire competencies in the usage of design, thermal and manufacturing principles to develop a product and process.

PSO1	2.21	2.44	Target AchievedStudents are trained through various hands-on courses									
Action 1: Students are acquired knowledge through passing curriculum and through various hands-on courses of respective domains and industrial visit.												
PSO 2: The students will be able to impart technological inputs and acquire managerial skills to become technocrats and entrepreneurs.												
PSO2	1.62	2.24	 Target Achieved Students are able to work as technocrats in the industries as well as they have proved themselves as the entrepreneurs. 									
Action 1: Various alumni guest lectures are organized through industrial resource persons.												
Action 2: Students are oriented about entrepreneurship through skill development courses.												

Actions taken based on the results of evaluation of each of the Pos & PSOs (20)

PO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Target	2.35	2.27	2.09	1.99	2.17	1.92	1.71	1.71	2.27	1.87	1.77	1.96	2.00	1.65
Attainment	2.65	2.62	2.63	2.54	2.58	2.55	2.66	2.65	2.62	2.65	2.62	2.61	2.55	2.59

POs and PSOs Attainment Levels and Actions for improvement: 2021-22



Figure.7.1b PO Target vs. PO Attainment for year 2021-22

PO's	Target Level	Attainment Level	t Obser vation s				
PO1: Engineeri fundamentals, a problems.	i ng know l nd an eng	ledge: Apply gineering spe	the knowledge of mathematics, science, engineering scialization to the solution of complex engineering				
PO1	2.35	2.65	Target achieved.				
			• Due to knowledge of engineering & basic concepts.				
Action 1: Additi from s	ional class tarting wit	es are arrange h prerequisite	ed for all direct entry students to cover entire syllabus es.				
PO2. Problem	nalvsis. I	dentify form	ulate review research literature and analyze compley				
engineering pro mathematics, nat	oblems r tural scien	eaching sub ces, and engin	stantiated conclusions using first principles of neering sciences.				
			Target achieved.				
PO2	2.27	2.62	• Mechanical Engineering students gain problem solving and analyzing skills through various basic courses like Machine Design etc.				
Action 1: Stude: analyze engineer	nts are so ring proble	lved differen ems.	t numerical assignments to identify, formulate and				
Action 2: Guid courses which ar	e students e self-pac	s to use iden ed.	tified online study material available like MOOCs				
PO3: Design/de and design syste consideration for considerations.	velopmen em compo r the publ	t of solutions nents or proc ic health and	S: Design solutions for complex engineering problems resses that meet the specified needs with appropriate safety, and the cultural, societal, and environmental				
			Target achieved.				
PO3	2.09	2.63	• Hands on workshop on design software.				
Action 1: Neces obtained will be	ssary inpu given rele	ts regarding vant informat	analysis of experiments and interpretation of results ion.				
Action 2: Stude problems from b	nts are to ooks as w	be provided ell.	with a question bank and made to practice unsolved				
PO4: Conduct	investiga	tions of com	plex problems: Use research-based knowledge and				
research method	s includin	ig design of e	experiments, analysis and interpretation of data, and				
synthesis of the	mormatio	in to provide v	Target achieved				
PO4	1.99	2.54	 Students are participated in various technical events and extension activity 				
Action 1: Stude Industry Sponsor	ents are p r projects	articipated to	solve practical problems through attending Dipex,				
Action 2: More	efforts and	d plan for Inte	ernship has been taken.				
PO5: Modern t modern engineer	ting and I	: Create, sele T tools include	ect, and apply appropriate techniques, resources, and ling prediction and modeling to complex engineering				

activities with an	n understa	nding of the l	imitations.
PO5	2.17	2.58	 Target achieved. Teaching learning process is accompanied with various digital platforms, interactive panels.
Action 1: Expendent Action 2: Department	rt lecture a artment all active Pane	re arranged o so focuses of and projector	on usage of 3D modeling and CAE tools. on availability of modern tools like availability of ors in classroom.
PO6: The engin assess societal, I relevant to the pr	teer and s health, sat	ociety: Appl fety, legal an l engineering	y reasoning informed by the contextual knowledge to d cultural issues and the consequent responsibilities practice
PO6	1.92	2.55	 Target achieved. It is observed that incorporation of responsibilities towards solving societal and health issues needs to be focused.
Action 1: Previo Action 2: Proj emphasized.	ous year ac ects base	ctivities are ca d on enviro	nrried out. nment, healthcare, security and social issues was
PO7: Environmengineering solution of, and need for	ment and tions in so sustainabl	d sustainabine sustainabine sustainabine subsequence of the sustainability of the sust	lity: Understand the impact of the professional vironmental contexts, and demonstrate the knowledge tt.
PO7	1.71	2.66	Target achieved.Environmental courses are in the curriculum and extension activities are carried out.
Action 1: Differ Action 2: Promo sided p	ent initiation oted paper paper for r	ives such as the less work three lotices on not	ree plantation, no vehicle day, ough online submission to MOODLE and use of one ices board and departmental paper work.
PO8: Ethics: Again and norms of the	pply ethic engineer	al principles a ing practice.	and commit to professional ethics and responsibilities
PO8	1.71	2.65	 Target achieved. Target is achieved with small margin due toas university curriculum has less inclusion of courses related to ethics Need to focus on conduction of ethics related sessions.
Action 1: Separa for add Action 2: Differ aware about indu free content in se Action 3: Institu values of uniform	te GFM (lressing po ent indust ustrial ethi eminar and te student nity	Guardian Fac ersonal issues ry culture awa cs which incl d project repo have proper	ulty Member) is appointed for batch of 20 Students , counseling, teaching ethics. areness programs are organized to make students udes session on paper publication, IPR, Plagiarism rt. uniform which indirectly contribute to teach ethical
PO9: Individua leader in diverse	l and tea teams, an	n work: Fun d in multidisc	ction effectively as an individual, and as a member or ciplinary settings.

			Target achieved.
PO9	2.27	2.62	• Courses like seminar, project, project based learning courses involve individual and
			teamwork

Action 1: Continues assessment is kept for seminar and project to enhance individual and team work

Action 2: Encouragement to participate in various state/national, zonal, university level competition of project, sports. Participation in social activities. Various days/event organization and management by students only helped them to grow as an individual and to cooperate in team.

Action 3: TARUNAI-students annual cultural program is organized every year where in students actively participate to showcase their skill as an individual and as team

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Action 1: In academic time table separate time slot allotted for soft skill improvement session. Special couch is appointed for the same.

Action 2: Student participated in various online soft skill development courses offered by various MOOCS platforms like NPTEL.

Action 3: Different cultural events, sports, social activities, project competition, industrial visits, Industrial training etc. contributed in students soft skill development

PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

			Target achieved.
PO11	1.77	2.62	• Students are able to apply knowledge and understanding of the engineering and management principles to their project work, as a member and are able to work effectively in a team.

Action 1: Department students participated in various project competitions and secured prizes.

Action 2: Department is having MOUs with various industries. Number of projects are industry sponsored projects which helps student to learn project management and finance

PO12: Life-long	g learning	g: Recognize	the need for, and have the preparation and ability to
engage in indepe	endent and	l life-long lear	rning in the broadest context of technological change.
PO12	1.96	2.61	Target Achieved • Students are observed to be canable for the

			technological development through various technical events.
Action 1: Studer Action 2: Studer compe	nts are end nts participation dev	couraged to do pation in vario eloped their li	MOOC courses like NPTEL, ous activities like extracurricular, project felong learning ability
PSO1: The stuc manufacturing p	lents will rinciples t	be able to acq o develop a p	uire competencies in the usage of design, thermal and roduct and process.
PSO1	2.00	2.55	Target AchievedStudents are trained through various hands-on courses
Action 1: Stude	nts are trai	ined through v	various hands-on courses of respective domains.
PSO 2: The sturskills to become	dents will technocra	be able to imp ts and entrep	part technological inputs and acquire managerial reneurs.
PSO2	1.65	2.59	 Target Achieved Students are able to work as technocrats in the industries as well as they have proved themselves as the entrepreneurs.
Action 1: Variou Action 2: Studen	is expert s its are orie	ession are org	anized through industrial resource persons. trepreneurship through skill development courses.

Actions taken based on the results of evaluation of each of the Pos & PSOs (20)

PO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Target	2.39	2.27	1.97	2.12	2.51	1.86	1.79	1.70	1.89	1.87	1.69	1.81	2.22	1.60
Attainment	2.65	2.54	2.53	2.45	2.54	2.45	2.26	2.35	2.32	2.36	2.39	2.41	2.72	2.37

POs and PSOs Attainment Levels and Actions for improvement: 2020-21



Figure.7.1c PO Target vs. PO Attainment for year 2020-21

PO's	Target Level	Attainment Level	Observations
PO1: En fundamer problems	gineering ntals, and	knowledge: an engineer	Apply the knowledge of mathematics, science, engineering ing specialization to the solution of complex engineering
PO1	2.39	2.65	Target achieved.
			• Due to knowledge of engineering & basic concepts.
Action 1:	More em	phasis given	on online assignments solving.
PO2: Pro engineerin mathemat	oblem ana ng probl tics, natura	alysis: Identif ems reachin al sciences, ar	y, formulate, review research literature, and analyze complex ag substantiated conclusions using first principles of ad engineering sciences.
			Target achieved.
PO2	2.27	2.54	• Mechanical Engineering students gain problem solving and analyzing skills through various basic courses like Engineering Mathematics III etc.
Action 1 formulate	: Student and analy	s are asked ze engineerir	to solve different numerical assignments to identify, ng problems through online platform.
PO3: Des and desig considera considera	sign/devel on system tion for the tions.	lopment of so components ne public hea	olutions: Design solutions for complex engineering problems or processes that meet the specified needs with appropriate lth and safety, and the cultural, societal, and environmental
PO3	1.97	2.53	Target achieved.
Action 1: problems	: Students from bool	are to be pr ks as well.	ovided with a question bank and made to practice unsolved
PO4: Co research synthesis	nduct in methods i of the info	vestigations ncluding des ormation to pr	of complex problems: Use research-based knowledge and ign of experiments, analysis and interpretation of data, and rovide valid conclusions.
PO4	2.12	2.45	Target achieved.
Action 1:	:		
PO5: Mo modern e activities	odern too ngineering with an u	l usage: Crea g and IT tool nderstanding	ate, select, and apply appropriate techniques, resources, and s including prediction and modeling to complex engineering of the limitations.
			Target achieved.
PO5	2.51	2.54	• Teaching learning process is accompanied with various virtual lab, Google meet and MOOCS courses etc.
Action 1: Google m	All facul neet and Z	ty members o oom platform	f department focusing on utilizing digital modern tools like

PO6: Th assess so relevant t	e enginee cietal, hea o the profe	r and society alth, safety, le essional engir	v: Apply reasoning informed by the contextual knowledge to egal and cultural issues and the consequent responsibilities beering practice.
PO6	1.86	2.45	Target Achieved
Action 1:			
PO7: Engineering of, and neg	nvironme ng solutio eed for sus	nt and sus ns in societal stainable deve	tainability: Understand the impact of the professional and environmental contexts, and demonstrate the knowledge lopment.
			Target Achieved
PO7	1.79	2.26	NSS activity carried out.
Action 1:	Different	initiatives su	ch distribution of medicine for COVID-19 under NSS.
PO8: Etl and norm	nics: Appl s of the er	ly ethical prin igineering pra	ciples and commit to professional ethics and responsibilities actice.
PO8	1.70	2.35	Target Achieved
Action 1:			
PO9: Ind leader in	lividual a diverse tea	nd team wor ams, and in m	k: Function effectively as an individual, and as a member or ultidisciplinary settings.
PO9	1.89	2.32	Target achieved.
Action 1:	Individua	al assignments	s are solved through online mode.
PO10: C the engin write efferreceive cl	ommunic eering cor ective repo ear instruc	ation: Comm nmunity and orts and desig ctions.	nunicate effectively on complex engineering activities with with society at large, such as, being able to comprehend and n documentation, make effective presentations, and give and
PO10	1.87	2.36	Target achieved.
Action 1:	Commun	ication analyz	zed through online meeting platforms.
PO11: Pu engineeri leader in	r oject ma ng and ma a team, to	nagement an magement pri manage proje	d finance: Demonstrate knowledge and understanding of the inciples and apply these to one's own work, as a member and ects and in multidisciplinary environments.
PO11	1.69	2.39	Target achieved.
Action 1:			

PO12: L engage in	ife-long lo	earning: Rec ent and life-lo	ognize the need for, and have the preparation and ability to ong learning in the broadest context of technological change.					
PO12	1.81	2.41	Target Achieved					
Action 1: Students are encouraged to do MOOC courses like NPTEL,								
PSO1: T manufactu	he student tring princ	s will be able piples to devel	to acquire competencies in the usage of design, thermal and lop a product and process.					
PSO1	2.22	2.72	Target Achieved					
Action 1	:							
PSO 2: 7 to becom	The studen e technocr	ts will be ableats and entrep	e to impart technological inputs and acquire managerial skills preneurs.					
PSO2	1.60	2.37	Target Achieved					
Action 1:	Online ex	pert sessions	are organized through industrial resource persons.					

7.2. Academic audit and actions taken thereof during the period of assessment (10)

Academic audit is a one of the best practice to ascertain adequate and operative excellence assurance mechanisms in terms of procedures, their applicability, that ensures quality input and subsequently quality output. The main aim of conducting academic audit is to assess the academic performance of both individual faculty and the whole department. This practice develops accountability of the individual members with regards to their academic performance. By conducting academic audit, the strength and weakness of the department can be assessed. The quantification of the academic performance helps us to compare the academic performance of departments and members of faculty.

Academic Audit:

The institute has well defined process of academic audit to evaluate the performance of different departments of the Institute such as; teaching process, laboratory maintenance and various departmental activities. Following are the objectives of academic audit

1. To assess the academic performance of individual faculty in a department.

2. To assess the academic performance of the department as a whole.

3. To identify the strengths and limitations of the department.

4. To make the individual faculty and the department accountable

5. To assure quality working of laboratory.

In the implementation of this process, the Internal Quality Assurance Cell (IQAC) constitutes an Academic Audit Committee (AAC) to audit each department twice in a semester, i.e., one at just before the commencement of semester while the other is just before the end of that semester. The members of AAC are given below:

- 1. Chairperson of IQAC.
- 2. Coordinator of IQAC.
- 3. One Professor/Associate Professor from the respective department.
- 4. One Professor/Associate Professor from the other department

I. Academic Audit:

Departmental academic audit is conducted in every academic year-

Pre-semester audit is conducted at the department level by respective academic coordinator along with HOD be for the commencement of new semester. Course files including Lesson plan, notes, assignments, lab manual, question banks etc. are

checked and academic monitoring check list is prepared. Recommendations are given to faculty members as per the checklist.

At the beginning of semester readiness is verified through following points:

- a. Theory Subjects:
 - 1. As per curriculum of D.B.A.T.U. University
 - 2. Time Table
 - 3. Academic Calendar
 - 4. Course File:
 - i. Course & Faculty Details
 - ii. Vision, Mission of Institute
 - iii. Vision, Mission of Department
 - iv. Program Educational Objectives
 - v. Program Outcomes
 - vi. Program Specific Outcomes
 - vii. Course Syllabus as per D.B.A.T.U. University
 - viii. Course Objectives & Outcomes
 - ix. Course outcome & Program outcome mapping
 - x. Teaching Plan
 - xi. Laboratory Plan
 - xii. Roll Call List of Students
 - xiii. Course Material
- b. Laboratory Subjects:
 - i. Lab Manual
 - ii. Lab Plan
 - iii. List of Experiments as per University Curriculum
 - iv. Software & Hardware requirements

End-Semester Audit:

End-semester audit is conducted at the end of semester by inviting external faculty member and following points are get audited.

- i. Adherence to prepared teaching plan
- ii. Student attendance record
- iii. Unit test papers & their evaluation
- iv. GFM Record
- v. Practical Sessions record
- vi. Viva record

This audit ensures smooth conduction of academics as per targeted plan. Suggestions and corrective actions are given to faculty members as per the check lists. Academic summary report is prepared by departmental academic coordinator and discussed in HOD meeting for further corrective actions. Following are audit outcomes:

- i. Quality assurance in academic monitoring system
- ii. Uniformity in policy implementation throughout the Institution
- iii. Areas for improvement are identified and fulfilled



Figure 7.2.a Sample Invitation Letter for External Academic Audit

	Centre/SubCentre: AG(F, Sort	be filled individually	by Faculty Member) District:	Satan
1	Name of the College and Address	Anvind Gava	i college of	Eng. satora.
2	Name of the Faculty Member	Mr. Kadam	Aviun Avur)
3	Name of the Subject taught during academic year	Mechatronic	\$ 2021-22	
4	Date of Joining in Degree College/Date of Joining in the present Institution	15/08/2016	Date of Retirement:	
S.No.	Activity	Status (Give Details, not just Yes/No)	Impression of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (poor) after	Recommendation/Suggestions by Academic Advisors
		Curricular As	pects .	
5	Annual Curricular plan	Yes	A	~
6	Curriculum enrichment / Value	Yes	A	V
7	Whether conducting Add on Courses	NO	c	conduct Add
2	& role in conduct of course	1	r	on courses
01	Feedback from students	Yes	A	V
	• 1	reaching, Learning a	nd Evaluation	
)	Teaching Diary & Teaching Plan	Yes	A	~
10	Coverage of syllabus so far (%)	Yes	A	~
11	Record of students attendance	Yes	A	~
12	Use of ICT - PPT & Audio-video Aids	Yes	A	~
13	Record of students assignments	yes	B	
14	Record of field trips	NO	-	Arrange Field trip
15	Record of student seminars conducted	NO	8	conduct seminar
16	Record of academic competitions conducted if any (Quiz, Role play)	Yes	A	~
17	Other Student centric learning Methods	yes	A	~
~18	Record of Extension Lectures given	Nes	Ĥ	V
19	Record of invited lectures arranged	NO	det	Arrange guest lecture
20	Record of internal examinations and University Exams	Yes	A	~
21	Pass percentage of University Exams / Semester in respective subject for the last three years.(paper wise)	Yes .	A	~
22	Record of remedial classes conducted for slow learners	Yes	A	1

S.No.	Activity	Status (Give Details, not just Yes/No)	Impression of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (poor) after	Recommendation/Suggestions by Academic Advisors
	R	esearch, Extension an	d consultancy	
23	Record of Research work (,Paper publication, Book publication, Articles)	Yes	A	~
24	Record of Student Projects	Yes	Sign A	
25	Record of seminars / workshops attended / organized /Papers presented	Yes	A	~
26	Record of extension work undertaken	Nº	_	~
27	Record of MoUs, if any	No	-	
28	Record of Consultancy work	Yes	A	-
	Ir	frastructure and learn	ing Resources	
29	Utilization of Departmental Library	No	207 -	~
30	Availability of CDs, Videos	No	-	-
31	Virtual labs / Open Educational Resources (OERs)	res	A	
	Development of any educational resource	ND	-	-
		Student support and	progression	1
32	Record of Activities conducted to contribute to the students' career opportunities	140	nd -	~
33	Mentoring / Counselling to students for curricular and co-curricular activities	Yes	A	~
34	Newspaper clippings or other materials as additional resource	Yes	A .	-
	Any Student team project for Technology Development	YS	A	~
		Governance and L	eadership	A
35	Record of additional administrative responsibilities performed	Yes.	A	~
36	Record of innovative practices	MO	-	~
37	Any outstanding contribution	NO	-	~
38	Whether above(related activities)entered in into Departmental Activities Register	Yes	A	-
39	Maintenance of Departmental Activities Register	Yes	A	~
40	Check Departmental Documentation (should be available with I/c of dept.) 1. Dept. Time Table 2. Faculty-wise Annual Curricular Plans 3. Facultywise wise Teaching Diary & Plans 4. Departmental Activity Register along with documentary Evidences 5. Faculty wise API formats along with Evidences	уез		
	Signature of the Faculty member	A.		D Signature of the Principal
	Note: the Format is to be filled by all	Those		Principal

Figure 7.2.b Sample Audited Course File Record

	Institu	tion/University Department: Arvind Gavali College of En	gineering	, Satara	
	Progra	am Title Engineering			
	Dogra	a Loval: Undergraduate Academic Audit Statue: First Academ	ic Audit	Second	
	Degree	e Level, Undergraduate Academic Addit Status First Academic	ie Autore	Jecona	
	Acade	mic Audit			
		Evaluation Results			
			Met/not	%	
	1	LEADAING ODIFCTIVES AND DESOUDCES	met	achieveu	
	11	The Faculty member has prepared Course Files as per the	Met		
	A.1.A.	learning objectives of the program		74	
	1.2	The Faculty member has shared his course file with the	Met		
		students of the class through Intranet/ Social media or any		70	
		other means			
	1.3	The faculty member documented specific benchmarks of his	Met	72	
	2.	CURRICULUM AND CO-CURRICULUM			
15	2.1	The faculty member collaborated with other faculty members	Met		
-		for effective design, sequence of courses and delivery of course		69	
	-	for improvements and documented these efforts appropriately			
	2.2	The faculty member documented a plan for analyzing the	Met	67	
	22	Course content in terms of achieving program objectives.	Mot		
	6.0	curriculum and co-curriculum comparing those with the best	Mec	64	
		practices elsewhere or in best institutes			
	3	TEACHING AND LEARNING PROCESSES			
	3.1	The faculty member analysed his/her own methods for	Met		
		improving teaching and learning throughout the program and		76	
	2.7	The faculty member developed and promoted effective	Mat		
	3.4	instructional methods other than lecturing so that student	MCL	70	
	-	achieve the learning objectives.		-	
	3.3	The faculty member developed materials for achieving student	Met	68	
		mastery of learning objectives.		00	
3	4.0	STUDENT LEARNING ASSESSMENT			
	4.1	The Faculty member has announced the method of continuous	Met	76	
		throughout.	THE REPORT	70	
	4.2	The faculty member developed techniques, other than written	Met		
		test, for the student learning assessments to improve the		64	
		program.			
	4.3	The faculty member has documented assessments of student	Met	76	
	11	The Coulty member has developed exercise block to the second seco	Mat		
	9.9	student learning success	Met	74	
	4.5	The faculty member has developed and documented a	Met		
		continuous improvement plan that incorporates multiple		77	
		measures to assess student learning and program			
		effectiveness.			
	4.6	The Student has put in his/her own efforts in the learning	Met	62	
	47	The students are challenged enough to use their knowledge	Mat		
	4.7	creatively	Met	69	

5.0	QUALITY ASSURANCE		
5.1	There is an existing process in the Institute to understand the	Met	66
r 0	parameters of quality of teaching and learning processes	14.4	
5.2	There is an initiative to understand the parameters of quality	Met	70
- 2	of teaching and learning processes, if not existing.	Mat	
0.0	improvements in the program a tap priority	Met	72
5.4	The performance of students in Internal Assessment and	Met	
	University Examinations is comparable.		78
5.5	There is sufficient feedback obtained from stakeholders in	Met	
	development of academic processes in the College.		/4
5.6	There is sufficient evidence of attempts to understand the	Met	
	industries/ Society's need in delivery of appropriate course		64
	content to the students		
0	OVERALL ASSESSMENT	Mat	
5.1	The Academic Audit process was Faculty driven.	Met	80
6.2	The Academic Audit process (self-study and visit) included	Met	
	descriptions of the program's quality processes including all		80
	five focal areas.		
6.3	The Audit resulted in a candid description of weaknesses in	Met	80
	program processes and suggestions for improvements.		00
6.4	There is openness and thoroughness of the faculty members in	Met	75
	completing the academic audit of this program.		
6.5	The Academic Audit process included involvement of and	Met	05
	inputs from stakeholder groups identified by the program's		85
7	FOLLOW-UP OF PREVIOUS AUDIT		-
71	An action plan was developed as a result of the previous	Met	Yes
	Academic Audit.	inc.	105
7.2	There is documented evidence that recommendations made by	Met	Yes
256	the previous Academic Audit Team have been considered and.		
	when feasible and appropriate, implemented and tracked.		
7.3	There is documented evidence that the program has been	Met	Yes
	implemented and tracked the progress of and use of results		
	from improvement initiatives cited by the faculty its self-study.		
8	SUPPORT		
8.1	The program regularly evaluates its library, equipment and	Met	
	facilities, encouraging necessary improvements within the		74
0.2	The program's operating hudget is consistent with the reader of	Mat	
0.2	the program	Met	76
83	The mogram has a history of enrolment rates sufficient to	Met	
	sustain high quality and cost-effectiveness.	Hee	78
8.4	The program has a history of graduation rate sufficient to	Met	
	sustain the quality of the program.		72
3.5	The program has a history of placement rate sufficient to	Met	17
	sustain high quality of program outcome.		67
8.6	The Program has a history of generating support from	Met	60
	industries and alumni to sustain itself.		69
Sign	atures of Academic Advisors		-
1	L. Dr. Uday A. Dabade,		
	Professor,		
	Walchand College of Engineering, Sangli		
-	Dr. Kumthekar Madhay Bhalchandra		
-	Retired Professor		
	Karad Government College Karad		
	Raida coverinnent conege, Raida	Ju	
		1.6	

Figure 7.2.c Sample Academic Audit Summary Sheet



Fig 7.2d Academic Audit 2021-22 Committee interaction and document verification is being carried out.

7.3. Improvement in Placement, Higher Studies and Entrepreneurship (10)

- Institute has a Training and Placement cell, responsible for grooming the students to be industry ready and provide opportunities for placement.
- T&P cell organizes various programs for overall personality development of the students. Also Training placement coordinator helps students search Internship opportunities in Mechanical industries.
- Experienced industry professionals in the respective domain of job profiles are invited for guest lectures.
- Through these activities, the students are made aware of the opportunities in various fields along with the required job profile. At the same time, they get a chance to interact with these industry professionals to take advantage of their experience in respective field of expertise.
- Career guidance books such as GRE, GATE, TOEFL are available in the library.
- In addition, with T&P Cell, Institute has initiated Campus to Corporate activity to help students improve communication skills, interpersonal skills, societal awareness and inculcate ethics.
- Institute has initiated aptitude training sessions in order to train students for placement aptitude tests.
- The aim of entrepreneurship development cell is to improve and generate a culture of innovation amongst the students and budding entrepreneurs and start their own business. Under entrepreneur development cell (EDC), institute has organized sessions to motivate and guide students to work on ideas in commercial aspect.

Items	CAY (2021-22)	CAYm1 (2020-21)	CAYm2 (2019-20)
No. of final year students (N)	101	95	49
No. of students placed (x)	83	73	38
No. of students admitted to higher studies (y)	5	1	1
No. of students turned entrepreneur in engineering/technology (z)	2	1	-
$\mathbf{x} + \mathbf{y} + \mathbf{z} =$	90	75	39
Placement Index : $(x + y + z)/N$	0.89	0.79	0.79
Average placement= $(P1 + P2 + P3)/3$		0.83	
% Placement	82.18	76.84	77.55

Placement details for academic year 2019-20 to 2021-22 as shown in Table 7.3a

Table 7.3a Data for Placements

PLACEMENT 2021-2022

SR. NO	STUDENT NAME	ENROLLMENT NO.	EMPLOYEE NAME	APPOINTMENT NO
1	1965451612003	MADHAVE ROHIT KAILAS	Maharashtra Scooters LTD.Satara	TPC/1612/2022/003
2	1965451612004	YADAV OMKAR JAYANT	Shambhu Industries	TPC/1612/2022/004
3	1965451612007	YADAV ANIKET ANIL	Asia Tech Center, Pune	TPC/1612/2022/007
4	1965451612012	JAGADALE ANIKET RAJU	Shree Ganesh Industries, Satara	TPC/1612/2022/012
5	1965451612013	SHELAKE RUPESH SUNIL	Shree Mahalaxmi services, Pune	TPC/1612/2022/013
6	1965451612014	SHINDE SANKET HEMANT	Divide by zero	TPC/1612/2022/014
7	1965451612015	GODASE MANOJ PANDURANG	SATARA ENGINEERING , PVT. LTD. SATARA	TPC/1612/2022/015
8	1965451612017	PAWAR PRAMOD BHIKU	KPIT Technologies Limited	TPC/1612/2022/017
9	1965451612018	ANIT BALWANT MORE	Align Engineering	TPC/1612/2022/018
10	1965451612020	LAD PRITHVIRAJ MASU	Sarvgram	TPC/1612/2022/020
11	1965451612021	LEMBHE AKASH AVINASH	Test Yantra Software Solutions, pune	TPC/1612/2022/021
12	1965451612025	SURYAWANSHI JAYRAM DIPAK	Cooper Corporation Pvt. Ltd	TPC/1612/2022/025
13	1965451612027	MAYUR DILIP MONDE	Sutra Systems India PVT LTD, Pune	TPC/1612/2022/027
14	1965451612028	DESAI PAVAN VIJAYKUMAR	BVG India Ltd, Satara	TPC/1612/2022/028
15	1965451612030	BHOITE DEEPAK AVINASH	Cooper Corporation PVT.LTD.Satara	TPC/1612/2022/030
16	1965451612032	JADHAV SUSHANT SAMADHAN	Shri Ganesh industries	TPC/1612/2022/032
17	1965451612033	JADHAV ROHIT PRADIP	Align Engineering	TPC/1612/2022/033

18	1965451612036	PRATIK SUDHAKAR SHINDE	GsPeb civil works pvt. ltd.	TPC/1612/2022/036
19	1965451612037	KADAM OMKAR PRAVIN	AVM ELECTRICALS INDIA PVT. LTD	TPC/1612/2022/037
20	1965451612038	DUBAL NANDKUMAR SANJAY	ToshniwalHyvacPvt Ltd , Mumbai	TPC/1612/2022/038
21	1965451612040	LANKESHWAR ABHISHEK HANMANT	JJEPL,Satara	TPC/1612/2022/040
22	1965451612041	SHINDE PRAJWAL SUNIL	Prajwal Enterprises	TPC/1612/2022/041
23	1965451612043	BHASKAR ASHUTOSH SUBHASH	Orgatma Organic Science Pvt Ltd Satara	TPC/1612/2022/043
24	1965451612046	ATTAR AMAN AKBAR	Prajwal Enterprises	TPC/1612/2022/046
25	1965451612049	SHINDE PRATHMESH NIRAJ	Wipro	TPC/1612/2022/049
26	1965451612050	KHUSPE MAYUR SHANKAR	Cummins	TPC/1612/2022/050
27	1965451612051	SAWANT SHUBHAM RAJENDRA	Kinemach	TPC/1612/2022/051
28	1965451612052	JAGTAP GAURAV PRADIP	York Transport EquipmentsPvt Ltd	TPC/1612/2022/052
29	1965451612054	PAWAR VAIBHAV ANANDA	Align Engineering	TPC/1612/2022/054
30	1965451612056	KADAM SWAPNIL MOHAN	PR Engineering Satara	TPC/1612/2022/056
31	1965451612057	PAWAR ASHISH BHIKU	SKF India Limited,Pune	TPC/1612/2022/057
32	1965451612059	ADHISHRI SHIVAJI PAWAR	Shri Sai Civil And Techno EnggPvt Ltd	TPC/1612/2022/059
33	1965451612060	PANDHARPATTE AJINKYA KALIDAS	Tri Tech Metals Pvt Ltd, Satara	TPC/1612/2022/060
34	1965451612061	MALI KISHOR KUMAR	Yashaswi	TPC/1612/2022/061

35	1965451612063	KADAM CHANDRASEN BHARAT	ACPL	TPC/1612/2022/063
36	1965451612066	ASAWALE ROHIT GHANASHAM	Forbes Marshal Pvt Ltd, Pune	TPC/1612/2022/066
37	1965451612071	SURYAWANSHI PRATIKSHA RAVINDRA	Mahekar Engineers	TPC/1612/2022/071
38	1965451612072	CHAVAN SHWETA HANMANTRAO	Faurecia Interiors	TPC/1612/2022/072
39	1965451612073	KAMTHE SHRIRAM SHASHIKANT	Nilsan Engineering Solutions	TPC/1612/2022/073
40	1965451612074	PATIL ROHIT RAVINDRA	Pan Gulf Technologices	TPC/1612/2022/074
41	1965451612077	SHEWALE MAYURI BHIMRAO	Delfingen	TPC/1612/2022/077
42	1965451612081	MOHITE VAIBHAV VASANT	Prajwal Enterprises	TPC/1612/2022/081
43	1965451612091	PAWAR VAIBHAV RAJARAM	PR Engineering Satara	TPC/1612/2022/091
44	1965451612092	KANASE RAVIRAJ DADASAHEB	Shri Ganesh Industries	TPC/1612/2022/092
45	1965451612094	OMKAR ANIL DHOLE	Bharat Forge	TPC/1612/2022/094
46	1965451612099	DESHMUKH ROHAN PANDURANG	AjinkyataraAutomotivesPvt .Ltd	TPC/1612/2022/099
47	1965451612103	SHEWALE NIKHIL VILAS	Renuka Enterprises	TPC/1612/2022/103
48	1965451612109	BHILARE OMKAR LAXMAN	Prajwal Enterprises	TPC/1612/2022/109
49	1965451612110	PAWAR SAGAR DILIP	AVM ELECTRICALS INDIA PVT. LTD	TPC/1612/2022/110
50	1965451612111	JADHAV RUSHIKESH MAHADEV	Yashvantrao Technical And Training foundation	TPC/1612/2022/111
51	1965451612112	AHIRE AKSHAY ARUN	Auto choice	TPC/1612/2022/112
52	1965451612113	JAMBHALE AKSHAY MARUTI	Auto choice	TPC/1612/2022/113

53	1965451612114	DESAI RANJEET BHASKAR	Auto choice	TPC/1612/2022/114
54	1965451612116	SAWANT NIKITA NAMADEV	Universal Solution,Pune	TPC/1612/2022/116
55	1965451612118	THORAT VAIBHAV RAVINDRA	Profound Edutech, Pune	TPC/1612/2022/118
56	1965451612120	KITTUR KEDAR SAHADEV	Forbes Marshal Pvt Ltd, Pune	TPC/1612/2022/120
57	1965451612121	SALUNKHE NILESH SUNIL	Renuka Enterprises	TPC/1612/2022/212
58	PRN:51654520181161210096	KADAM ABHIJEET DEEPAK	AVM ENGINEERING	TPC/1612/2022/0096
59	PRN:51654520181161210098	DHANE NIKHIL SUNIL	AjinkyataraAutomotivesPvt .Ltd	TPC/1612/2022/0098
60	PRN:51654520181161210099	POWAR ASHUTOSH ANIL	Renuka Enterprises	TPC/1612/2022/0099
61	PRN:51654520181161210109	KUMBHAR GANESH SURESH	Shri Jagadamba Engineering Works,Satara	TPC/1612/2022/0109
62	PRN:51654520181161210110	BHOSALE PRATHAMESH PRAMOD	ShriannPlastiv Pvt. Ltd.	TPC/1612/2022/0110
63	PRN:51654520181161210111	PAWAR RAJESH RAMCHANDRA	Shambhu Industries	TPC/1612/2022/0111
64	1965451612005	JADHAV SURAJ BAJIRAO	Om Enterprises,Satara	TPC/1612/2022/005
65	1965451612011	SOURAV TIKADAR	ATHRAV ENGINEERING	TPC/1612/2022/011
66	1965451612023	PATIL SHUBHAM SANJAY	Zerg Corporation Satara	TPC/1612/2022/023
67	1965451612034	TAVARE SHAMBHURAJ KUBER	Zerg Corporation Satara	TPC/1612/2022/034
68	1965451612039	SUTAR JYOTI DATTATRAYA	ATHRAV ENGINEERING	TPC/1612/2022/039
69	1965451612042	KANASE AKASH RAJENDRA	Shambhu Industries	TPC/1612/2022/042
70	1965451612044	JADHAV OMKAR PRAKASH	Gholap Engineering Works	TPC/1612/2022/044

71	1965451612053	SHINDE KUNAL NARAYAN	Shambhu Industries	TPC/1612/2022/053
72	1965451612055	CHAVAN SHUBHAM SANJAY	Gholap Engineering Works	TPC/1612/2022/055
73	1965451612064	SURYAWANSHI HRUSHIKESH PRAKASH	Gholap Engineering Works	TPC/1612/2022/064
74	1965451612090	MUJAWAR NAYUM AJIM	Om Enterprises,Satara	TPC/1612/2022/090
75	1965451612093	SHINDE VEDANT VIKAS	Renuka Enterprises	TPC/1612/2022/093
76	1965451612098	PAWAR ABHIJIT PRADEEP	Zerg Corporation Satara	TPC/1612/2022/098
77	PRN:51654520181161210103	BHOSALE NIKHIL BHAUSO	Om Enterprises,Satara	TPC/1612/2022/0103
78	PRN:51654520181161210104	GHORPADE HARSHADA RAMDAS	Zerg Corporation Satara	TPC/1612/2022/0104
79	PRN:51654520181161210105	JAGTAP RUSHIKESH MADHUKAR	Gholap Engineering Works	TPC/1612/2022/0105
80	PRN:51654520181161210107	GAIKWAD ANIKET SACHIN	Om Enterprises,Satara	TPC/1612/2022/0107
81	PRN:51654520181161210108	PANASKAR PRATIK CHANDRAKANT	ATHRAV ENGINEERING	TPC/1612/2022/0108
82	PRN:51654520181161210112	DESAI MUSKAN NISAR	Renuka Enterprises	TPC/1612/2022/0112
83	PRN:51654520181161210113	CHAVAN RUSHIKESH DASHARATH	Gholap Engineering Works	TPC/1612/2022/0113
84	1965451612048	ASMITA ANANDA BHOSALE	International university of Applied Science, Berlin	Higher Studies
85	1965451612105	BHOSALE INDRAJEET LAXMAN	LLB	Higher Studies
86	1965451612106	JADHAV SWAPNIL SITARAM	Centre For Development Of Advanced Computing Admission To PG Diploma Course September 2022	Higher Studies
87	PRN:51654520181161210102	GHADAGE KISHOR LAXMAN	International university of Applied Science, Berlin	Higher Studies

88	PRN:51654520181161210106	PUSTAKE UTKARSH RAVINDRA	International University of Applied Sciences	Higher Studies
89	1965451612089	POL YOGESH SHIVAJI	Food Industries	ENTERPRENATURE
90	1965451612095	GHORPADE AKSHAY GULAB	Om Bhawanimata Motors and Car Care	ENTERPRENATURE

PLACEMENT 2020-2021

SR. NO	STUDENT NAME	ENROLLMENT NO.	EMPLOYEE NAME	APPOINTMENT NO
1	PRN:51654520171161210001	ABHISHEK SHANKARRAO KATKAR	ShambhuIndusteies	TPC/1612/2021/001
2	PRN:51654520171161210002	ANIL SHIVAJI HASABE	DESCOSOLUTIONS PVT LTD	TPC/1612/2021/002
3	PRN:51654520171161210004	SHINDE INDRAJIT VILAS	CEE Engineering Pvt ltd Pune	TPC/1612/2021/004
4	PRN:51654520171161210005	SHRADDHA YASHWANT BHOSALE	Infosys	TPC/1612/2021/005
5	PRN:51654520171161210007	SURAJ ANIL SUTAR	OM EMTERPRISE, SATARA	TPC/1612/2021/007
6	PRN:51654520171161210010	NAGARGOJE KRISHANA POPAT	TBK India Private Limited	TPC/1612/2021/010
7	PRN:51654520171161210012	MULIK AKASH DIPAK	Zerg Corporation Satara	TPC/1612/2021/012
8	PRN:51654520171161210013	SHIRKE MAYUR NAMDEV	Auto Choice	TPC/1612/2021/013
9	PRN:51654520171161210014	SIDDHANT SANJAY WAJE	AjinkyataraAutomotivesPvt. Ltd.	TPC/1612/2021/014
10	PRN:51654520171161210015	KUMBHAR SIDDHESH DATTATRAYA	OM EMTERPRISE, SATARA	TPC/1612/2021/015
11	PRN:51654520171161210016	SUTAR SACHIN BASAVRAJ	Datametica Solutions Pvt Ltd	TPC/1612/2021/016
12	PRN:51654520171161210017	S MOHAMEDRAFEEQ M SADAKKATHULLA	Shriann Plastic Pvt.Ltd.	TPC/1612/2021/017
13	PRN:51654520171161210018	PATIL DHIRAJ SHAMRAO	OM EMTERPRISE, SATARA	TPC/1612/2021/018
14	PRN:51654520171161210020	BHOSALE ROHIT MOHAN	Precise Systems Satara	TPC/1612/2021/020
15	PRN:51654520171161210021	PADWAL SHUBHAM SHIVAJI	Atharva Engineering, Satara	TPC/1612/2021/021
16	PRN:51654520171161210022	AVINASH RAMESH	Pando Software Consultants,	TPC/1612/2021/022

		MATRE	Noida	
17	PRN:51654520171161210023	KADAM VAIBHAV SUBHASH	OM JAI ASSOCIATE	TPC/1612/2021/023
18	PRN:51654520171161210024	PATIL DIGVIJAY RAVINDRAKUMAR	TCS	TPC/1612/2021/024
19	PRN:51654520171161210027	ASAWALE SURAJ DNYANDEV	AjinkyataraAutomotivesPvt. Ltd.	TPC/1612/2021/027
20	PRN:51654520171161210030	AKSHATA BABANRAO SHEDGE	Precision Group, Pune	TPC/1612/2021/030
21	PRN:51654520171161210031	DAREKAR ANIKET AVINASH	PR Engineering Satara	TPC/1612/2021/031
22	PRN:51654520171161210035	RAJESH MANSING MORE	Shri Ganesh Industries	TPC/1612/2021/035
23	PRN:51654520171161210036	LONDHE RANJIT DEVANAND	Shriann Plastic Pvt.Ltd.	TPC/1612/2021/036
24	PRN:51654520181161210001	NIKAM AKASH SUNIL	SeinumeroNirmanPvt Ltd, Pune	TPC/1612/2021/0001
25	PRN:51654520181161210002	PATIL JEEVAN JAYWANT	RenukaEnterpriese	TPC/1612/2021/0002
26	PRN:51654520181161210004	JADHAV SHUBHAM KISAN	SLE TECHNOLOGY CONSULTING INDIA PRIVATE LIMITED	TPC/1612/2021/0004
27	PRN:51654520181161210007	GOGAWALE DHANRAJ LAXMAN	AVM Engineeering	TPC/1612/2021/0007
28	PRN:51654520181161210008	KANKEKAR YOGESH ASHOK	HNB	TPC/1612/2021/0008
29	PRN:51654520181161210010	KODAG SHUBHAM BABAN	Wipro	TPC/1612/2021/0010
30	PRN:51654520181161210014	CHAVAN AKASHAY MAHADEO	Shriann Plastic Pvt.Ltd.	TPC/1612/2021/0014
31	PRN:51654520181161210015	JADHAV GANESH MADHUKAR	Satara Engineering Works	TPC/1612/2021/0015
32	PRN:51654520181161210017	ASAWALE SHARAD PRAKASH	TCS	TPC/1612/2021/0017
33	PRN:51654520181161210018	CHAVAN PRATIK PRADIP	Shri Ganesh Industries	TPC/1612/2021/0018
34	PRN:51654520181161210020	MANDHARE ALPESH SHIVAJI	EveryIndiaPvt Ltd, Bangalore, 8067387000	TPC/1612/2021/0020
----	--------------------------	----------------------------------	--	--------------------
35	PRN:51654520181161210021	SHINDE AKSHAY ARVIND	AjinkyataraAutomotivesPvt. Ltd.	TPC/1612/2021/0021
36	PRN:51654520181161210022	SHINDE ANIKET CHANDRASHEKHAR	Cognizant	TPC/1612/2021/0022
37	PRN:51654520181161210023	CHAVAN AKASH SANJAY	Gholap Engineering Works	TPC/1612/2021/0023
38	PRN:51654520181161210026	SHINDE PUJA PRAKASH	Infosys	TPC/1612/2021/0026
39	PRN:51654520181161210027	PAWLE HRITUJA RAMAKANT	TCS	TPC/1612/2021/0027
40	PRN:51654520181161210028	HERKAL SHRIKANT KRISHNA	JCB India Ltd, Pune	TPC/1612/2021/0028
41	PRN:51654520181161210029	SURYAWANSHI APARNA VASANT	Tata AutoCompGotion Green Energy Solutions Private Limited	TPC/1612/2021/0029
42	PRN:51654520181161210030	PATIL SNEHAL JAGANNATH	TCS	TPC/1612/2021/0030
43	PRN:51654520181161210031	LAD KAVITA RAJESH	SIEMENS	TPC/1612/2021/0031
44	PRN:51654520181161210032	DESHMUKH AISHWARYA SANTOSH	TCS	TPC/1612/2021/0032
45	PRN:51654520181161210034	GAIKWAD VISHAL RAJU	Gurukrupa Industries, Pune 0206521004	TPC/1612/2021/0034
46	PRN:51654520181161210035	HARANE DIGAMBAR ASHOK	Teknovance Solutions Pvt. Ltd., Pune	TPC/1612/2021/0035
47	PRN:51654520181161210038	DHOTRE SHUBHAM CHANDRAKANT	BigLeap Technologies & Solutions Pvt ltd, Pune	TPC/1612/2021/0038
48	PRN:51654520181161210039	BAGANE VIVEK VIJAYKUMAR	Shree SVS System Pune	TPC/1612/2021/0039
49	PRN:51654520181161210040	KAKADE AJAY SANJAY	AVM Engineeering	TPC/1612/2021/0040
50	PRN:51654520181161210041	PANDHARPURE RUGVEDA RAMESH	AVM Engineeering	TPC/1612/2021/0041
51	PRN:51654520181161210043	PAWAR AJIT SANJAYKUMAR	Satara Engineering Works	TPC/1612/2021/0043

52	PRN:51654520181161210044	SAPKAL AMIT KISAN	HEF SHINE , PUNE	TPC/1612/2021/0044
53	PRN:51654520181161210048	SHINDE YOGESH RAOSAHEB	Shambbu Industries	TPC/1612/2021/0048
54	PRN:51654520181161210049	SALUNKHE AKASH LAHU	Zerg Corporation Satara	TPC/1612/2021/0049
55	PRN:51654520181161210050	SUTAR ABHISHEK BALIRAM	AVM ELECTRICALS	TPC/1612/2021/0050
56	PRN:51654520181161210051	SURYAWANSHI AASHUTOSH AVINASH	Atharva Engineering, Satara	TPC/1612/2021/0051
57	PRN:51654520181161210053	NAWAJ ASLAM PATEL	Auto Choice	TPC/1612/2021/0053
58	PRN:51654520181161210054	SANKPAL ADITYA PRAVIN	PR Engineering Satara	TPC/1612/2021/0054
59	PRN:51654520181161210055	SAWANT SHUBHAM DATTATRAY	Infosys	TPC/1612/2021/0055
60	PRN:51654520181161210058	ROHILE NIHAL ANJUMANALLI	Infosys	TPC/1612/2021/0058
61	PRN:51654520181161210062	PAWAR SUSHANT VASANT	ТАТА	TPC/1612/2021/0062
62	PRN:51654520181161210065	GURAV AKSHAY SHIRISH	Atharva Engineering, Satara	TPC/1612/2021/0065
63	PRN:51654520181161210072	PAWAR SUSHANT DAYANAND	Sindhuraj Solar, Sangli	TPC/1612/2021/0072
64	PRN:51654520181161210073	KADAM UMESH BHIMARAO	PR ENGINEERING , SATARA	TPC/1612/2021/0073
65	PRN:51654520181161210074	PAWAR JAYADEEP JAGADEV	Sindhuraj Solar, Sangli	TPC/1612/2021/0074
66	PRN:51654520181161210077	HIRUGADE VIKAS SHIVAJI	YTTF	TPC/1612/2021/0077
67	PRN:51654520181161210079	KADAM PUSHPAL NAYAKU	Teamlease Services Ltd	TPC/1612/2021/0079
68	PRN:51654520181161210083	CHAVAN KIRAN VITTHAL	PajanjapeAutocastPvt Ltd, Satara	TPC/1612/2021/0083
69	PRN:51654520181161210085	NAWADKAR RUPESH BHASKAR	Zerg Corporation Satara	TPC/1612/2021/0085

70	PRN:51654520181161210086	CHAVAN ROHIT SHANKAR	Auto Choice	TPC/1612/2021/0086
71	PRN:51654520181161210088	BHOSALE PRATIK NARENDRA Sindhuraj Solar, Sangli		TPC/1612/2021/0088
72	PRN:51654520181161210092	NADAF WASEEM HARUN	Three D Magic Info Solution Pvt Ltd	TPC/1612/2021/0092
73	PRN:51654520181161210129	PATEL ARBAAJ JIYAUDIN	Cognizant	TPC/1612/2021/0129
74	PRN:5165452017161210033	CHAVAN PRATHMESH PRAVIN	HIGHER STUDIES	HIGHER STUDIES
75	PRN:51654520181161210067	AGRAWAL RATIK KAPIL	ENTERPRENATURE	ENTERPRENATUR E

PLACEMENT 2019-2020

SR. NO	STUDENT NAME	ENROLLMENT NO.	EMPLOYEE NAME	APPOINTMENT NO
1	PATIL ANIKET	2016102802	TECHTREE IT SYSTEMS PVT LTD, MUMBAI	TPC/1612/2020/802
2	PISAL SONALI	2016102805	INFOSYS	TPC/1612/2020/805
3	BARGE AJINKYA	2016102808	ULTRA ENGINEERS, PUNE	TPC/1612/2020/808
4	SABALE AKSHAY	2016102814	SINDHURAJ SOLAR, SANGLI	TPC/1612/2020/814
5	PATIL SHUBHAM	2016102817	Ajinkyatara Automotive Pvt.Ltd	TPC/1612/2020/817
6	MANE KETAN	2016102818	ZERG CORPORATION, SATARA	TPC/1612/2020/818
7	KALE HARIDAS	2016102822	SINDHURAJ SOLAR, SANGLI	TPC/1612/2020/822
8	MANE SUSHANT	2016102824	TVH INDIA	TPC/1612/2020/824
9	NIKAM SOURABH	2016102825	GHOLAP ENGINEERING WORKS	TPC/1612/2020/825
10	PATIL RAVINA	2017106584	ZERG CORPORATION, SATARA	TPC/1612/2020/584
11	SURWASE SHUBHAM	2017106585	TCSL	TPC/1612/2020/585
12	DALAVI KIRAN	2017106586	INDIAN ARMY	TPC/1612/2020/586
13	MANE ONKAR	2017106588	INFOSYS, PUNE	TPC/1612/2020/588
14	SHINDE MEGHA	2017106591	WIPRO PARI INDUSTRIES, SHIRVAL	TPC/1612/2020/591
15	PATIL PRAGATI	2017106594	UTKARSH TRASMISSION PVT LTD	TPC/1612/2020/594
16	SAWANT PRAVIN	2017106598	BYJU'S	TPC/1612/2020/598
17	PAWAR SANKET	2017106601	Ajinkyatara Automotive Pvt.Ltd	TPC/1612/2020/601
18	MANE MAYUR	2017106606	INDIAN POST	TPC/1612/2020/606

19	MANE SARIKA	2017106609	OGNIBENE	TPC/1612/2020/609	
20	WAGHMARE SHUBHAM	2017106610	Align Engineering	TPC/1612/2020/610	
21	SABALE SOMNATH	2017106611	LOGICON TECHNOSOLUTIONS PVT LTD, PUNE	TPC/1612/2020/611	
22	SATRE AKSHAY	2017106613	GHADAGE PATIL INDUSTRIES LTD KOLHAPUR	TPC/1612/2020/613	
23	WAINGADE RAMDAS	2017106616	Shri Ganesh Inustries	TPC/1612/2020/616	
24	YEJARE SANGRAMSINGH	2017106617	TARA TOOLS, PUNE	TPC/1612/2020/617	
25	MALUSARE VISHAL	2017106618	SATARA ENGINEERING, SATARA	TPC/1612/2020/618	
26	PATIL PRATIKSHA	2017106619	INFOSYS	TPC/1612/2020/619	
27	NAIK SANGRAM	2017106623	Align Engineering	TPC/1612/2020/623	
28	JADHAV ANIKET	2017106624	OM ENTERPRISE, SATARA	TPC/1612/2020/624	
29	JADHAV AMOL	2017106625	ATHARV ENGINEERING, SATARA	TPC/1612/2020/625	
30	JADHAV ROHAN	2017106626	SINDHURAJ SOLAR, SANGLI	TPC/1612/2020/626	
31	YEWALE VIKRAM	2017106629	GHOL	TPC/1612/2020/629	
32	PARAMANE AKSHAY	2017106636	VARROC ENGINEERING LTD	TPC/1612/2020/636	
33	SHETE OMKAR	2017106638	SPACO TECHNOLOGIES INDIA PVT LTD, PUNE	TPC/1612/2020/638	
34	MANE SURAJ	2017106640	OM ENTERPRISE, SATARA	TPC/1612/2020/640	
35	JADHAV PRANIL	2017106646	ATHARV ENGINEERING	TPC/1612/2020/646	
36	CHAVAN SANKET	2017106647	NIPRO INDIA CORPORATION, SHIRWAL	TPC/1612/2020/647	

37	JADHAV RAHUL	2017106652	Tagloy Media Pvt.Ltd	TPC/1612/2020/652
38	BHABAN RUSHIKESH	2017106656	INFOSYS, PUNE	TPC/1612/2020/656
39	SHIVANIKAKADE	2017106643	M.TECH. AGCE SATARA	HIGHER STUDIES

7.4. Improvement in the quality of students admitted to the program(10)

Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage marks in Physics, Chemistry and Mathematics in 12th Standard and percentage marks of the lateral entry students.

		CAY	CAY m1	CAYm2
ΓΙ	Έ	(2022-23)	(2021-22)	(2020-21)
Ν	Л			
National level	No. of			
entrance examination	students	0	0	01
(JEE)	admitted			
	Opening score/rank	0	0	48665
	Closing score/rank	0	0	48665
State/University	No. of			
level	students	28	23	36
examination/others	admitted			
MH-CET /	Opening score/rank	28379	37819	94413
Diploma	Closing score/rank	122093	97314	87534
Name of entrance	No. of			
examination for	students	37	103	110
lateral entry (Direct	admitted			
Second Year:	Opening score/rank	10635	17483	9406
MSBTE Diploma	Closing score/rank	50924	68070	61528
Final Semester)		50724	00717	01320
Average CBSE/Any	other board result of	0	0	0
admitted students(Phys	sics, chemistry, Maths)			

Table 7.4a Quality of students admitted to the program

CRITERION	FIRST YEAR ACADEMICS	50
08		

Please provide First year faculty information considering load for the particular program

		0113	Date of				Теа	aching load	(%)	Current	Date Of leaving (In
Name of the faculty member	PANN o.	lific atio n	Receiving Highest Degree	Area of Specializ ation	Designation	Date of joining	CAY (2022- 23)	CAY (2021- 22)	CAY (2020- 21)	Associa ted (Yes /No)	case Currently Associated is 'No')
Ashwini Deepak Kasture	BTSP K5524 K	M.S c	14-06- 2017	Mathema tics	Assistant Professor	15-06-2012	100	100	100	Yes	
Pooja Ramchandr a Bhosale	ERAP B9485 B	M.S c,B. Ed	08-07- 2019	Mathema tics	Assistant Professor	01-07-2019	100	100	100	Yes	
Vidya Atul Salunkhe	CJJPS9 748B	M.S c	19-05- 1999	Mathema tics	Assistant Professor	01-08-2019	100	100	100	Yes	
Ms.Swapna li Shinde	PGTPS 0243D	M.S c	30-08- 2021	Mathema tics	Assistant Professor	01-07-2022	100	0	0	Yes	
Ms.Sonali S.More	EVMP 4519P	M.S c	24/3/2018	Mathema tics	Assiatant Prof.	2/7/2022	100	0	0	No	31/06/2023
Madan Prabhakar Jagdale	BEGPJ 8774P	M.S c	08-07- 2019	Mathema tics	Assistant Professor	01-07-2019	0	100	100	No	31/05/2022
Ruksar Rajmoham ad Sayyad	IWNP S7798 C	M.S c.	04-07- 2017	Mathema tics	Assistant Professor	01-08-2020	0	0	100	Yes	
Pranita Dadaso Pol	DHZP P7754 R	M.S c.	01-06- 2018	Chemistr y	Assistant Professor	15-07-2019	0	100	100	Yes	
Komal Rajendra Nikam	BIZPN 4929H	M.S c.	13-07- 2015	Chemistr y	Assistant Professor	01-06-2019	0	100	100	Yes	
Namita Pratik Mahajan	ETRP B8924 A	M.S c	06-06- 2019	Chemistr y	Assistant Professor	01-11-2020	0	0	0	Yes	
Priya Yashwant Kuthe	HPUP K3410 K	B.E	21-08- 2017	Chemical	Assistant Professor	12-10-2021	100	100	0	Yes	
Mrs.Rohini Bhosale	ENPP B2533 D	M.S c	30-07- 2017	Chemistr y	Assistant Professor	21-07-2022	100	0	0	yes	
Tejaswini Dnyaneshw ar Jadhav	BUIPJ 1243D	M.S c	24-10- 2020	Physics	Assistant Professor	17-03-2021	0	100	0	No	31/06/2022
Kanchan Sanjay Mahamuni	EHFP M5540 B	M.S c	24-10- 2020	Physics	Assistant Professor	17-03-2021	100	100	0	No	31/06/2023
AshwiniAn kush Babar	AQSP B8546 L	M.S c	11-06- 2010	Physics	Assistant Professor	01-06-2019	0	0	100	No	31/10/2021
Dr. Nitin Ramchandr a Jadhav	AGSPJ 2278D	M.A	07-03- 2020	ENGLIS H	Assistant Professor	02-07-2020	100	100	100	Yes	

Nikita Sanjay Bhilare	FBDP B7735 Q	M.A SET	09-07- 2019	English	Assistant Professor	16-03-2021	100	100	0	Yes	
Thoravi Rahul Yadav	BLVP M6822 M	MA	10-07- 2008	ENGLIS H	Assistant Professor	01-06-2019	0	0	100	No	30-04-2021
Aanand Sudhir Shivde	CCLPS 6118J	M.E	30-09- 2014	Mechanic al	Assistant Professor	06-01-2019	0	0	100	No	31-07-2021
Kamlesh Kumawat	ENEP K1812 H	M.E	20-10- 2016	Mechanic al	Assistant Prof.	03/07/2017	0	0	100	No	31/3/2021
Mr.Amol Ghorpade	BTDP G5946 C	M.E	10/10/2017	Mechanic al	Assistant Prof	1/10/21	100	100	0	No	2/5/2023
Pratik Manohar Tambe	AXPP T2681 Q	M.E	31-07- 2017	Mechanic al	Assistant Professor	01-07-2019	100	100	0	No	31-12-2022
Pranav Avinash Pathak	BFAPP 7243G	M.E	20-10- 2016	CSE	Assistant Professor	22-08-2011	22	35	38	Yes	
Gujar Vijay Bhanudas	AMEP G4168 K	M.E	22/02/2011	CSE	Assistant Professor	1/11/2020	15	0	0	Yes	
Suraj Shivaji Shinde	EKQP S2010J M.E/M .Tech	M.E	12-12- 2018	Civil	Assistant Professor	02-12-2021	55	50	0	No	31/05/2023
Abhay V.gujar	ABPP G5152 M	M.E		Civil	Assistant Prof.	25/06/2010	0	0	75	Yes	
Sapkal Rajendra	BNHP S3023 E	M.E	25/06/2013	Civil	Assistant Professor	1/06/2016	50	0	0	Yes	
Diksha Sanjay Jadhav	BGXPJ 6890B	M.T ech	01-06- 2019	Civil	Assistant Professor	22-07-2019	0	0	19	Yes	
Kolekar A.B.	GDSP K1558 L	M.T ech	18/01/2019	Civil	Assistant Professor	1/06/2019	0	0	86	No	1/05/2021
Dr. Prashant Ramesh Bamane	BHXP B5112 K	PhD ,M. E.	24-12- 2014	Civil	Associate Professor	01-09-2021	81	72	0	Yes	
Vishal Sharad Hingmire	AEBP H8372 K	M.E	23-11- 2013	E & TC	Assistant Professor	12-02-2011	17	13	0	Yes	
Dr.Shinde Deepali	CBQP S4461 N	PhD	24/09/2015	E & TC	Associate Professor	15/02/2023	20	0	0	Yes	
Rahul Prakash Sakhare	FCOPS 8416K	MT ech	05-06- 2017	E & TC	Assistant Professor	07-01-2019	0	0	29	Yes	

8.1. First Year Student-Faculty Ratio (FYSFR) (5)

Assessment = (5 ×20)/Average FYSFR (Limited to Max. 5)				
	Number of	Number of faculty		

Year	Number of students (Approved intake strength)	Number of faculty members(considering fractional load)	FYSFR= Number of students/ Number of faculty members
CAY: 2022-23	330	14.60	22.60
CAY m1: 2021-22	330	14.70	22.45
CAY m2: 2020-21	330	14.47	22.80
	22.62		
Assess	4.42		

Graphical Presentation of First Year Student Faculty Ratio



8.2. Qualification of Faculty Teaching First Year Common Courses (5)

Assessment of qualification = (5x + 3y)/RF, x= Number of Regular Faculty with Ph.D, y = Number of Regular Faculty with Post-graduate qualification RF= Number of faculty members required as per SFR of 20:1

Year	X	Y	RF	Assessment of qualification
CAY: 2022-23	3	16	16.5	3.82
CAY m1: 2021-22	2	15	16.5	3.33
CAY m2: 2020-21	1	16	16.5	3.21
Average Assessment of	3.45			

Graphical Presentation of Assessment of Qualification:



8.3. First Year Academic Performance (10)

Academic Performance (AP) = (Mean of the percentage of marks in First Year of all successful students/10) x (number of successful students/number of students appeared in the examination)

Year	Mean of the % marks of successful student X	X/10	Total Successful students Y	Total Appeared Students Z	ΑΡ	AVE. API
CAY 2022-23	CSE	6.90	126	133	6.54	
	E &TC	6.97	23	34	4.72	
	Mech	7.33	9	15	4.40	
	Civ	0	1	03	0	
	Elec	6.80	22	30	4.99	6.69
CAY m1: 2021-22	CSE	8.35	69	69	8.35	
	E &TC	8.11	45	45	8.11	
	Mech	7.943	10	10	7.9	
	Civ	7.76	9	9	7.76	
	Elec	8.05	8	8	8.05	
CAY m2: 2020-21	CSE	8.6	52	52	8.6	
	E &TC	8.4	29	29	8.4	
	Mech	7.4	21	21	7.04	
	Civ	7.6	13	13	7.6	
	Elec	8.0	22	22	8.0	

Year (MECH)	Mean of the % marks of successful student X	X/10	Total Successful students y	Total Appeared Students Z	AP	AVE. API
CAY 2022-23	73.3	7.33	9	15	4.40	6.57
CAY 2021-22	79.43	7.943	10	10	7.9	
CAYm12020-21	74	7.4	21	21	7.4	

Graphical Presentation of Academic Performance



8.4. Attainment of Course Outcomes of first year courses (10)

8.4.1 Describe the assessment processes used to gather the data upon which the

evaluation of Course Outcomes of first year is done (5) Data collection methods:

- Two Internal CA Tests of 10 marks and One MSE of 20 marks are conducted per semester and Question papers are set according to defined course outcomes.
- Final examination of 60 marks is conducted by the University.

- Evaluation of course outcome is based on Internal Tests and university examination with weighted average 40:60.
- **O** Lab assessment is based on practical performance of students and two CA practical exam of 15 marks.

Sr.No.	Direct Assessment tools	Outcome
1	CA Internal Test -2 MSE -1	Attainment of course outcome and programme outcome
2	Assignments, Tutorials, quiz	Designed for course outcome
3	Laboratory work, Orals ,Lab CA exam	Practical knowledge

8.4.2. Record the attainment of Course Outcomes of all first year courses (5) for

Mechanical Engineering students. Attainment levels are set based on performance in Internal Semester Evaluation and University examinations.

Sr. No.	Assessment Tool	Attainment Level
1	University Examination	Level 3->71 - 100% student score Level 2- 51 - 70% student score
		Level 1- 40 - 50% student score
2	CA Test	Level 3->71 - 100% student score Level 2- 51 - 70% student score Level 1- 40 - 50% student scoredent score

3	MSE	Level 3->71 - 100% student score
		Level 2- 51 - 70% student score
		Level 1- 40 - 50% student score
4	LAB	Level 3->81 - 100% student score
		Level 2- 61 - 80% student score
		Level 1- 40 - 60% student score

8.5. Attainment of Program Outcomes from first year courses (20) Following table shows the attainment of COs of first year courses yearwise

1. Indicate results of evaluation of each <u>relevant</u> PO and/or PSO, if applicable Indicate results of evaluation of each <u>relevant</u> PO and/or PSO, if applicable(15) CO-PO set level indicating Matrix

Course					
Code	Course	CO1	CO2	CO3	CO4
BTBS101	Engg. Mathematics-I	1.00	1.10	1.10	1.00
BTBS102	Engg.Physics	1.10	0.95	1.20	1.10
BTES203	Engg.Graphics	2.90	2.85	2.70	2.80
BTHM104	Communication Skill	2.80	2.80	2.78	2.80
BTES105	Energy and Environment Engg.	2.20	2.25	2.22	2.30
BTBS102L	Engineering Physics lab	2.40	3.00	2.40	2.40
BTES106	Basic Electrical and Electronics Engg (Audit				
	sub)	3.00	2.90	2.90	3.00
BTES108L	Engineering Mechanics Lab	2.00	2.00	2.60	2.60
BTES108L	Engineering Graphics Lab	2.00	2.00	2.00	2.60
BTHM109L	Communication Skills Lab	2.00	2.00	2.00	2.00
BTBS201	Engg. Mathematics-II	1.00	1.10	1.08	1.10
BTBS202	Engg.Chemistry	2.32	2.32	2.16	2.20
BTES203	Engg.Mechanics	2.40	2.35	2.15	2.00

Academic year 2022-23

BTES204	Computer Progrmming in C	1.40	1.55	1.70	1.30
BTES205	Workshop Practice	2.00	2.00	2.00	2.00
BTES206	Basic Civil and Mechanical				
	Engineering(audit sub)	2.90	2.80	2.80	2.80
BTBS107L	Engineering Chemistry Lab	2.40	2.40	3.00	3.00
BTES210S	Seminar	2.40	2.40	2.40	2.40

Core Science and Engineering CO-PO Attainment 2022-23 (Mechanical Engineering)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
M1	0.70	1.07	0.98	0.92							0.93	0.71	0.49	0.49
CHEM	2.39	2.18	1.78			2.18	2.39		2.39			1.78		
MECHANICS	1.39	1.58	2.05	1.28	0.80		1.36					1.76	1.00	1.02
Comp Prog In C	1.17	1.35	1.42	1.26	1.62					0.88	1.08	0.87	1.34	1.33
BEEE	1.30					0.65	0.87							
Engg Chem Lab	2.80	2.56	2.10			2.56	2.80		2.80			2.10		
Engg Mech Lab	1.33	1.65	2.12				1.27					1.72	0.93	1.00
Workshop	1.09				1.70				0.73	0.36			0.18	
M2	0.71	1.08	0.97	0.97		0.49						0.71	0.49	0.48
Phy	0.96	0.96	0.96	1.44		1.44	1.44					0.96	0.48	
Graphics	2.83	2.83	1.66	1.88	2.83		2.12		1.19	1.87	1.89	1.10	2.83	0.94
Comm skills					0.73			1.10	1.82	2.01		1.46	0.72	2.20
EEE	1.85		1.99		1.57		2.37		1.59	1.60		1.96	0.79	1.57
BCME	0.71	1.42	0.94	0.94	0.63					1.25	0.94	0.96	1.42	0.95
Phy lab	1.65	1.65	1.65	2.48		2.48	2.48					1.65	0.83	
Gaphics lab	0.59	1.46	0.73			0.18	0.00		0.73	0.81		0.81	1.22	0.77
Comm skills lab					0.94			1.41	2.36	2.59		1.89	0.95	2.83
Seminar					1.00				2.67	2.67		1.75	1.00	1.00

PO levels set and achieved Attainment (2022-23):

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Target	2.00	2.20	2.14	2.44	1.44	1.43	2.25	1.40	2.29	2.26	2.00	2.00		
AY 22- 23	1.43	1.65	1.49	1.40	1.31	1.43	1.71	1.26	1.81	1.56	1.21	1.39	0.98	1.22

8.5.2. Actions taken based on the results of evaluation of relevant POs (5) Academic Year-2022-23

POs Attainment Levels and Actions for Improvement- (2022-23)

POs	Target Level	Attainment Level	Observations
PO 1 : Know	: Engineering ledge		

PO 1	2.00	1.43	 Target is not attained The students have a limited grasp of the core principles of engineering.
Action	n: 1. Greater em	phasis will be placed or	n thoroughly comprehending the
fundat	mentals of engir	neering.	

PO 2 : Problem Analysis

PO 2	2.20	1.65	Target is not attained					
			• The students are experiencing a					
			deficiency in their literature review					
			outcomes and in identifying					
			engineering-related issues.					
Action	Action: 1The goal for the upcoming academic year is to exert efforts in order to attain							
the pre	the predefined target							
2. The	2. There will be an increased emphasis on generating fresh ideas to address these							
issues.								

PO 3 : Design/development of Solutions

PO 3	2.14	1.49	 Target is not attained In the realm of research and development, the students faced challenges in recognizing issues concerning public health and safety, as well as addressing cultural and societal needs. 					
Action	Action: 1. The same target will be considered for the next academic year.							
2. Mo	2. More focus will be given to practicals, experiments, projects to improve their skills							
and n	and not merely learning.							

PO 4 : Conduct Investigations of Complex Problems

PO 4	2.44	1.40	 Target is not attained Students are facing challenges when it comes to conducting investigations into complex problems. 				
Action: 1. The goal for the upcoming academic year is to exert efforts in order to attain the predefined target							
2.	2. As teaching and learning is at an advanced level, more emphasis is given on						

PO 5 : Modern	Tool	Usage
---------------	------	-------

PO 5	1.44	1.31	Target is not attained
			• There is a need for greater
			utilization of the National Program
			of Technical Enhance Learning
			(NPTEL) as a teaching resource,
			with a focus on integrating more

			contemporary tools and technologies			
Action	Action: 1. The objective for the forthcoming academic year is to dedicate efforts					
toward	achieving the	predetermined goal.				
2. More thrust will be given for the use of various modern tools like ICT panels,						
Moodl	e, PPTs, FTPs,	and Digital Library.				

PO 6 : The Engineer and Society

PO 6	1.43	1.43	 Target is attained The students could assess societal, health, safety, legal and cultural issues, clearly
Action	1. The same ta	arget will be considered	for the next academic year

2 A strong bond will be forged with society by addressing their needs by conducting activities like exhibitions, and group discussions on societal needs related to engineering and professionalism, will be organised.

PO 7 : Environment and Sustainability

PO 7	2.25	1.71	Target is not attained - The students' concerns regarding environmental issues lack depth, and there is a need for improvement in their approach to sustainable development.			
Action: 1. The goal for the upcoming academic year is to commit efforts towards achieving the established objective. 2. The various environmental issues such as global warming, pollution, and e-waste will be highlighted by conducting various awareness programmes.						

PO 8 : Ethics

PO 8	1.40	1.26	Target is not attained -
			Students need improvement in
			their awareness of the importance

			of ethics and professional principles.	
 	~		 	

Action: 1. The aim for the upcoming academic year is to devote efforts to accomplish the set objective.

2. The importance of ethical behaviour in engineering students, will be emphasized and expert talks on ethics in engineering domain will be organized.

PO 9 : Individual and Team Work

PO 9	2.29	1.81	Target is not attained - It has been observed that students need to enhance their ability to work both individually and as part of a team when working on projects

Action: 1. The goal for the approaching academic year is to allocate efforts towards achieving the predetermined aim.

2. The students will be motivated to participate in co curricular and extra curricular activities.

PO 10 : Communication

PO 10	2.26	1.56	Target is not attained - It has been noted that students require a stronger focus on improving their proficiency in linguistic, public speaking, communication, and computing skills			
Action: 1 We'll aim to achieve the same target in the upcoming academic year 2. Soft skills programmes and expert lecture will be arranged to highlight its importance and necessity in daily life and also the industry in particular.						

PO 11 : Project Management and Finance

PO 11	2.00	1.21	Target is not attained -
			The students' knowledge of
			project management is inadequate.

Action: 1. The same target will be considered for the next academic year. 2.Mini projects from the first year itself will help the students' to improve their understanding of the topic, cultivating team spirit, problem-solving ability, and managerial skills will be included.

PO 12 : Life-long Learning

PO 12	2.00	1.39	Target is not attained - Greater emphasis will be placed on instilling the concept of lifelong learning among the students.
Action: 1	l. We will put in e	fforts to attain the ide	ntical target in the forthcoming
2 The st	udonto will ho mo	tivated to participate i	n as aurrigular and avtragurrigular
2.1 ne st	udents will be mo	invaled to participate i	n co-curricular and extracurricular
activities	b.		
3. Expert	t lectures pertainir	ng to various fields and	d career development programmes will
be organ	ized.		

CRITERION 09STUDENT SUPPORT SYSTEMS80
--

STUDENT SUPPORT SYSTEMS

9.1 Mentoring system to help at individual level (5)

The role of the faculty as a Guardian Faculty mentor is one of nurturing support for a student during the transition period in academic, professional as well as personal augmentation. In all departments of the Institution, mentoring is a continuous process where Guardian faculty mentors serve as a resource who will respond to many questions, that the student might pose; support students in choosing course work that meets their needs and interests; encourage students to actively participate in seminars and laboratory work that are realistic in scope; and counsel the students on any other academic, professional, personal growth, etc., for necessary advice/guidance/help.

Guardian Faculty Mentor:

- For monitoring the overall development of students and encourage the students to participate in all grooming activities conducted by various cells, one faculty is assigned as Guardian Faculty Mentor to every batch consisting the 15 students.
- The guardian faculty mentor conducts periodical meeting with students in order to evaluate their academic performance and proper orientation towards the program, as well as guide them to rectify any shortcomings and to solve any problems.
- Every GFM is in contact with parents of respective students and communicates them about student performance, attendance and any other issues.
- GFM discuss the various policies conducted by the Institute with students and helps them take maximum benefits from them.
- Students are motivated and guided to participate in co-curricular and extra-curricular activities.
- GFM helps students for solving their personal issues such as psychological issues, confidence level, negative emotional management, leadership quality, time management, teamwork etc.

• Following issues are discussed with students:

- i. Attendance
- ii. Personal issues
- iii. Behavior
- iv. Understanding problems
- v. Difficulty in writing/ speaking
- vi. Confidence level
- vii. Hostel/Food issues(Homesickness)
- viii. Girl's/Women's issues
- ix. In case of any other observations, it is noted and discussed.

1. Class Advisor:

A class Advisor is appointed to monitor & coordinate the activities of the respective class. Class Advisor maintains a record of defaulter list, roll call list, etc. and mentors the students related to academic performance, less attendance, etc.

2. Academic Guidance:

- Support to improve performance of students: Based on the previous year's result and Mid Semester Examination performance and overall behavior of students; weak and bright students are identified in each class and appropriate mentoring is done to improve the performance of weak students and motivate bright students.
- Remedial classes are conducted for students who have backlogs. Unit wise discussion is conducted in each remedial session.
- Program coordinator, course coordinators, class Advisors & GFMs continuously communicate with students and motivate them to perform well in academics and enhance their knowledge through various modes like Add on courses, internships, etc.
- Parents-Teacher Meeting is held once in semester to brief the progress of their wards to their parents. This process has improved students' academic performance, attendance and

Participation in co-curricular and extra-curricular activities.

3. Professional and Career Guidance:

- A dedicated **Training & Placement Coordinator** (**TPC**) is appointed by the institute to coordinate the placement related activities.
- Various career guidance sessions like higher education opportunities in India and abroad, latest trends in industries etc. are conducted throughout the year for students to enhance their vision and broaden their mindset to lead their lives on a successful career path.
- Apart from higher education opportunities, sessions like aptitude training, group discussion sessions, interview preparations, etc. are regularly conducted by TPCs to improve students' performance in placement activities for various companies.
- On the technical front, several technical training sessions are conducted by course coordinators and industry persons alike for students to keep them updated with latest technical knowledge.
- Students are encouraged to take part in various co-curricular & extra-curricular events to ensure their all-round development by participating and organizing such events at regular intervals.

Efficacy of Mentoring System:

- After mentoring and counseling it was observed that the academic performance of students improved.
- Also some of abilities such as time management, teamwork, goal setting and softskills were improved.
- In some cases, it helped students to overcome in securities about their abilities as an engineering student and encouraged them to prepare for the next steps in their academic program and career.

PERSONAL DETAILS (2022-23)	Tr Academic Calendar , Term - II
Name of Student Matkar Akansha D	APRIL Suggestion TOPUNAL - 2023
Tal-Koregoan Dist satara	9:30 Minute
Parent Mobile No. 9910 584685	05/04/23 (Amile Condition
E-mail akanshamatkar 168 gmail-com	08/04/23 Amale Anti-
Branch - LICCHONICO	11-4-2023 Eols GFM Signature 1 st Saturday GFM Signature
Class - TY-BTech	nical project competition
GFM Name - Dr. SAT Bella	co-ordinated pareleiparte.
GFM Mob No: 9962604864 Note:+ Students having attendance more that	pate in poster 4 project
Institute Scholarship *Laptop / Tablets are allowed during practical for academic purpose.	college Malegoan.
(a)	3rd Saturday GFM Signature

Fig. 9.1.a: GFM Diary



Fig. 9.1.b: GFM Diary

9.2. Feedback analysis and reward/corrective measures taken, if any (10) (Institute Marks :)

Feedback collected for all courses: Yes

The feedback process helps course coordinators understand the lacunas and scope for improvements. Also it appreciates the hard work done by the course coordinators.

Feedback collection process:

The teaching-learning system followed by any educational institution needs continuous refinement. To facilitate this process of continuous refinement, the institution has adopted a feedback system that takes suggestions from students of each program.

This eventually helps to fine-tune the teaching-learning process and the curriculum. The institution follows a well-defined feedback system. It has been identified as one of the important processes in our teaching learning system.

The students those who have attendance more than average are given an opportunity to express their opinion with regards to effectiveness in teaching by a teacher, which are detailed in the feedback format. The feedback from students regarding the quality of teaching is collected twice in a semester, using Google apps. This also helps the teachers in improving their teaching methodology.

Feedback is collected online twice in a semester (either through Moodle / GoogleForm) from students with above average attendance. This feedback is completely anonymous and students are encouraged to give their honest feedback.

The feedback is collected on five-point scale

Arvind Gavali College of Engineering, Satara Department of Mechanical Engineering

Third Year Feedback

Month : April 2022 Total Responses : 45 Total Class Strength : 68 Feedback Percentage : 66.17%

Sr. No	Subject	Abbrev.	Name of Faculty	Abbrev.
01	Machine Design-II	MD-II	Mr. Kamble Ankur V.	KAV
02	Applied Thermodynamics -II	ATD-II	Mr. Shivade A.S.	SAS
03	Manufacturing Processes- II	MP-II	Mr. Matkar Mahesh V.	MMV
04	I.C. Engines	ICE	Mr. Ghadage Suraj S.	GSS
05	Renewable Energy Sources	RES	Mr. Kadam AA.	KAA
06	Solar Energy	SOLAR	Mr. Tambe Pratik M.	TPM

FACULTY - SUBJECT DISTRIBUTION



Faculty	KAV	SAS	MM∨	GSS	KAA	ТРМ	%
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	
85 -100 %	6	4	6	5	4	5	11.11111
70 - 84 %	18	20	17	20	20	20	42.59259
55 - 69 %	14	16	17	16	15	15	34.44444
30 – 54 %	5	4	4	3	3	4	8.518519
0- Below 30 %	2	1	1	1	3	1	3.333333

1. How much of the syllabus was covered in the class?

2.How well did the teachers prepare for the classes?



MD-II	ATD-II		MP-II	II ICE		RES	
Faculty	KAV	SAS	MMV	GSS	KAA	TPM	%
Subject	MD-II ATD-		MP-II	ICE	RES	SOLAR	1
Thoroughly	20	15	16	20	9	16	35.55556
Satisfaction	19	24	24	18	24	23	48.88889
Poorly	4	5	4	6	10	5	12.59259
Indifferently	0	0	1	1	1	1	1.481481
Wont Teach at all	2	1	0	0	1	0	1.481481

NBA e-SAR 2022-23



3. How well were the teachers able to communicate?



4. The teacher's approach to teaching can best be described as

THE T			1111 - 11	1.0			
Faculty	KAV	SAS	MMV	GSS	KAA	TPM	%
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	
Excellent	13	7	12	9	4	10	20.37037
Very Good	15	23	17	20	22	21	43.7037
Good	10	12	12	12	13	11	25.92593
Fair	5	2	3	3	4	2	7.037037
Poor	2	1	1	1	2	1	2.962963

5. Fairness of the internal evaluation process by the teachers





Faculty Subject	KAV	NPR	MMV	GSS	TPM RES	TPM SOLAR	%
	MD-II	ATD-II	MP-II	ICE			
Always fair	15	12	11	14	11	13	28.14815
Usually	18	23	23	20	21	22	47.03704
Sometimes	7	6	9	6	11	7	17.03704
Unfair	5	4	2	5	2	3	7.777778
Never	0	0	0	0	0	0	0



6. Was your performance in assignments/extra practice test discussed with you?

7. The faculty takes active interest in promoting internship, student exchange, field visit opportunities for students.

Regularly Often Sometimes Rarely Never



Faculty	KAV	NPR	MMV	GSS	TPM	TPM	%
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	
Regularly	14	14	20	13	11	14	31.85185
Often	17	16	15	16	19	19	37.77778
Sometimes	8	10	7	11	10	9	20.37037
Rarely	3	3	1	3	3	2	5.555556
Never	3	2	2	2	2	1	4:444444



8. The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth.

MD-II	ATD-II		MP-II ICE		RES		SOLAR	
Faculty	KAV	SAS	MMV	GSS	KAA	TPM	%	
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR		
Significantly	9	11	9	10	8	10	21.11111	
Very Well	21	16	22	19	21	20	44.07407	
Moderately	12	16	13	14	12	14	30	
Marginally	1	1	0	1	2	0	1.851852	
Not at All	2	1	1	1	2	1	2.962963	





Faculty	KAV	SAS	MMV	GSS	KAA	TPM	%
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	
Strongly Agree	9	6	8	6	5	5	14.44444
Agree	22	25	23	26	22	26	53.33333
Neutral	6	8	10	9	13	10	20.74074
Disagree	4	3	1	1	2	1	4.444444
Strongly Disagree	4	3	3	3	3	3	7.037037



10. Teachers inform you about your expected competencies, course outcomes, and program outcomes

11. Your mentor does a necessary follow-up with as assigned task to you



Faculty Subject	KAV MD-II	SAS ATD-II	MMV MP-II	GSS ICE	KAA RES	TPM SOLAR	%
Usually	18	23	22	24	25	22	49.62963
Occasionally	6	6	6	6	5	6	12.96296
Rarely	3	1	3	1	1	2	4.074074
I don't have mentor	2	1	1	1	2	1	2 962963

Every time Usually Occasionally Rarely I don't have mentor



12. The teacher illustrates the concepts through examples and applications

Faculty	KAV	SAS	MMV	GSS	KAA	ТРМ	%
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	
Every time	17	17	21	20	19	19	41.85185
Usually	14	16	12	15	14	16	32.22222
Occasionally	11	8	8	8	7	9	18.88889
Rarely	1	2	2	0	3	0	2.962963
Never	2	2	2	2	2		4 074074

13. The teacher identifies your strengths and encourage you with providing right level of challenges



Faculty Subject	KAV MD-II	NPR ATD-II	MMV MP-II	GSS ICE	TPM RES	TPM SOLAR	%
Reasonably	19	20	15	20	19	17	40.74074
Partially	11	9	14	14	11	14	27.03704
Slightly	1	1	1	0	4	1	2.962963
Unable	4	3	3	3	4	2	7.037037
34.81481

28.51852

2.962963

7.407407

Usually

Occasionally

Rarely

Never



14. Teachers are able to identify your weaknesses and help you to overcome them





Faculty	KAV	SAS	MMV	GSS	KAA	TPM	%
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	
Strongly Agree	10	8	10	10	8	9	20.37037
Agree	23	26	22	24	28	25	54.81481
Neutral	5	5	8	6	5	6	12.96296
Disagree	5	5	4	4	3	4	9.259259
Strongly Disagree	2	1	1	1	1	1	2.592593



16. The institute/ teachers use student-centric methods, such as experiential learning, participative learning and problemsolving methodologies for enhancing learning experiences





Faculty	KAV	SAS	MMV	GSS	KAA	TPM	%
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	
Strongly Agree	13	10	11	9	11	10	23.7037
Agree	17	20	23	18	20	21	44.07407
Neutral	8	10	6	13	7	9	19.62963
Disagree	3	2	2	1	4	2	5.185185
Strongly Disagree	4	3	3	4	3	3	7 407407





19.What percentage of teachers use ICT tools such as LCD projector, Multimedia , etc while teaching?





Strongly Agree Agree Neutral Disagree Strongly Disagree

Faculty	KAV	SAS	MMV	GSS	KAA	TPM	%
Subject	MD-II	ATD-II	MP-II	ICE	RES	SOLAR	1
Strongly Agree	8	7	10	7	6	9	14.44444
Agree	22	21	19	25	20	21	39.25926
Neutral	10	14	12	10	15	11	22.96296
Disagree	2	2	3	2	2	3	4.444444
Strongly Disagree	3	1	1	1	2	1	2 222222

Fig. 9.2.a: Feedback Collection



Fig.9.2.b: Feedback Collection and analysis Process

Students Feedback Analysis procedure

The staff appraisal committee members at program level collects the online feedback and prepare the consolidated report. The staff appraisal committee members analyze feedback and discuss it with program coordinator and accordingly corrective and preventive measures are carried out if necessary. This feedback is communicated to the concerned faculty through program coordinator.

Effectiveness of Feedback System:

- Faculties having poor feedback in mid semester were counseled by program coordinator. During counseling program coordinator gave suggestions for the improvement to the concern faculty.
- It was observed that after counseling, end semester feedback of concern faculty was improved.

Sub	Faculty	Appreciation	Suggestions for improvement
MD-II	KAV	Performance discussion of assignments, Identification of Strength and Weakness of Students	Participative learning and problem solving, Field Visits
ATD-II	SAS	Use of ICT, Follow up of task	Review and continuous quality improvement, Multiple opportunities to learn
MP-II	MMV	Preparation for class, Efforts to inculcate soft skills	Identification of Strength and Weakness of Student, CO-PO discussion
ICE	GSS	Illustration of concepts through examples, Follow up of task	Identification of Strength and Weakness of Student, Multiple opportunities to learn
RES	KAA	CO-PO discussion, Use of ICT	Identification of Strength and Weakness of Students, Participative learning
SOLAR	TPM	Illustration of concepts through examples, Fairness of internal Evaluation	Field Visits, Identification of Strength and Weakness of Students

OVERALL ANALYSIS

Fig. 9.2.c: Feedback Analysis

5

1

16

KAV	Stambus coverage is lagarna	plan for extra	Cunduct exter
		1 and c	Syllabus-
SAS	tenhing planning prepared	Prepared teaching plan for smooth contraction	Plan atlest one hours teaching
мму	Improve let usage	prepared 112. tor easy understanding.	Use esteractive panoel to early understanding.
GSS	Strengthrand weakered	Discuss with each & every student	Follow the swo canabsis
каа	methol is prpected	explain topic with extra example	explais topics
трм	Arrange field visits	. Will plan for industrial visit at	Every month end
	MMV GSS KAA TPM	MMV Improve 107 Usoge GSS Identification of Strangthrand weakered KAA method is enpected TPM Arrange field visits Madrid Journess and the	MMV Improve 107 Usage prepared 1172. tor easy un derstanding. GSS Identification of Discuss with each & every student KAA Methad is projected extra example TPM Arrange field visits. Will plan fors. industrial visit at Acoust

Action Taken

Fig. 9.2.d: Corrective Action Taken

Corrective Measures:

Academic Year	Suggestion recognized through Feedback Process		Corrective actions taken
2022-23	Students Demand Internship for second year & third year students	•	Institue provide the industry for various Company
2021-22	Students demand for Practical based Learning.	•	Emphasis is given on Project Based Learning (IOT Projects + Projects involved for Seminar Course)
2020-21	Organize soft skill development program	•	Separate Slot for Soft skill Session (Campus to Corporate) is allotted in Timetable.
2019-20	Technical Training Program should be organized.	•	4 Weeks Industry Training Program(Yugam Event) conducted for CNC,UG NX,SUPRA BAJA Designing Domains.
2018-19	More Usage of ICT TOOLs for Teaching Learning Process.	•	Students are encouraged to attempt Quizzes, MCQ Test on MOODLE. Facility of Intelligent Interactive Panel is Provided in Classrooms.

Table9.2.a:Year-wise corrective measure data

The suggestions/complaints/appreciations from the students are shared with the concerned course coordinator through program coordinator. This process is useful to evaluate course coordinator performance.

9.3. Feedback on facilities (5)

(InstituteMarks: 4)

Feedback collection procedure

The institute has set the process of facility feedback mechanism to improve the quality and performance. In every semester, feedback is collected from the students on the various facilities provided to them such as library, transport, internet, canteen, sports etc. The feedback from students regarding the facilities is collected in a semester.



Tal & Die 415.04

- :02162-2 Phone : 02162-200100 Tele Fax : 02162 - 261122

- Institute Code : Engo. DTE EN-6645 Poly.Code : DTE DN-6545 Poly. MISBTE-1617 (2nd Shift)

Facility/Services Feedback Form

Academic Year: 2722-23

Semester: 7

	Questions	Excellent	Very Good	Good
1	Is Adequate Reading Room Space available?	V		
2	Book bank Service provided by the Librarian.	V		
3	Store Services		V	
4	Availability of Drinking Water	~		
5	Usage of ICT Tools			V
6	Transport Services		V	
7	Support & Encouragement for Sports Activity	V		
8	Your opinion on Office Administration / Account		V	
9	Internet/Wi-Fi Facility			V
10	Canteen Services		\checkmark	

P

Suggestions (if Any): Wi-Fi Speed showd be more coverage area should be increase Sports stot shoud be more.



Fig 9.3.a: Facility Feedback Form

Feedback Analysis: The feedback is collected and analyzed based on the facilities provided like sports, canteen, library; etc .and corrective measures are taken as per the feedback (if required).

Corrective Action Taken:

Sr. No.	Academic Year	Comments given by student	Action Taken/outcomes
	2019-20	Extend Library Timing	Library Closing time is extended. Reading Room is available for 12 hours.
1	2019-20	Decide and Fix the menu of Canteen.	Canteen Committee is formed.
2	2020-21	Store Services should be available after college hours or Saturday	Store Services are available on Saturday.
3	2021-22	Increase no. of buses for transportation for Rahimatpur, Medha Route.	Two New buses started for Rahimatpur route and Medha Route
	2021 22	Increase Wi-Fi Internet Speed	Separate Network for Wi-Fi is established in order to receive higher frequency internet data.
4	2022-23	Gym atmospshere welcoming and inclusive	Institute Built open Gym facility for students

Table9.3.a:Year-wise corrective measure data regarding facilities

9.4. Self-Learning (5)

(Institute Marks: 4)

Scope for self-learning:

- Students are encouraged to register for online courses offered by world's leading MOOC Platforms like Coursera, NPTEL, Udemy.
- Exclusive Library Slot is assigned in timetable for self-learning.
- Digital Library available at institute level.(DELNET)
- Technical competitions, workshops, seminars, quiz competitions are being conducted where students actively participate.
- Students are also encouraged to register for national level competitions for overall development.

Facilities for self-learning:

• IIT Remote Center

- Open Source Videos
- Digital Library
- Internet WI-FI
- Virtual Lab
- DELNET Library
- NPTEL Local Chapter
- MOODLE

Students are facilitated with a well-equipped library provided with latest edition of books, e-Books, online and printed journals and modern labs. The college central library is well equipped with technical magazines, journals and NPTEL lecture videos. The Institute facilities use the library resources to enhance the self-learning of students in following ways:

- The Institute library has a collection of reference books, handbooks on different courses.
- Internet and Wi-Fi facility is provided to all students and staff.
- To update themselves with the current news and latest technological developments, students and staff avail the facilities of Newspapers and magazines in the library.
- Students are provided with the book bank facility for all students.
- Question paper sets of all subjects of previous University examination are available in the central library.
- Old project reports of students are maintained in departmental library which are referred regularly by students of the department



Technical University of Denmark	COURSE CERTIFICATE
06/30/2010	
AKANSHA DATTATRAY MATKAR	
has successfully completed	STON FOR EVE
Wind Energy	Coursera
an online aon-credit course authorized by Technical University of Denmark (DTU) and dfored through Coursera	COL PRE CERTIFIC
The second se	
Alexandrowski, K. M. Str. M. Str. (2007) Marath Badger, Alrufa Salmaja, Lars Tgaund Malakaon, Amona Sathu Vladimiz Faskow, Term Crenin, Torbes Kreigh Michikaen, Kören Fahrorg Hannen, MalaErick Casase, Bornine Kum, Sven-Eric Gryning, Eim Branear, Poul Bran Serensen, Hilmar Bartansson Danielsen, Benril Bredmase	
	Verify at coursers.org/verify/LBTZH72XK293

Fig. 9.4.a: Students Participating In Online Certification Courses

Effective Utilization:

- Students used various self-learning tools for their seminars, mini projects and final year projects.
- Every student has login ID and Password for accessing the internet.
- Students have been given access to library through KOHA software. This facilitates ease of access to library.
- Students have attended the Spoken English and Technical Skill Development sessions through IIT Remote Center.
- Students have been guided and encouraged to learn NPTEL courses through NPTEL Local Chapter.
- The college central library has NPTEL videos, educational CDs having lectures of renowned Professors.
- Students are provided DELNET library facility to refer online books, journals.
- Students have individual account on MOODLE and thereby they can attempt quizzes, read study materials uploaded by faculty members.

(Institute Marks: 8)

9.5. Career Guidance, Training, Placement (10)

The institution may specify the facility, its management and its effectiveness for career guidance including counseling for higher studies, campus placement support, industry interaction for training/ internship /placement etc.

Facility:

- Institute has a Training and Placement cell, responsible for grooming the students to be industry ready and provide opportunities for placement.
- T&P cell organizes various programs for overall personality development of the students.
- Experienced industry professionals in the respective domain of job profiles are invited for guest lectures.
- Through these activities, the students are made aware of the opportunities in various fields along with the required job profile. At the same time, they get a chance to interact with these industry professionals to take advantage of their experience in respective field of expertise.
- Career guidance books such as GRE, GATE are available in the library.

In addition, with T&P Cell, Institute has initiated Campus To Corporate Activity to help students improve communication skills, interpersonal skills, societal awareness and inculcate ethics.

Facility Management:

- The students are groomed through lectures on aspects of pre-requisites for facing interviews such as preparing an effective prototype resume and effective measures and presentation skills to face an interview.
- The students are also counseled for taking up higher studies in India as well as abroad.

Placement Procedure:

Institute training and placement cell procedure is as follows



Fig. 9.5.a: Institute training and placement cell procedure

Counseling for Higher studies:

Following are the activities carried for higher studies counseling;

Academic	Details	Speaker/Expert	Date
Year			
2022-23	Opportunities is IT Industry and Japan	Mr. Bipin Kadam (Thinksmart Soft, Tokyo, Japan)	03/05/2023
2022-23	Higher studies in various abroad universities	Mr. ShekharBidwai	16/09/2022
2022-23	Guidance for GRE TOEFL	Mr. Amol Kawade	30/03/2023
2022-23	Guidance on Management Studies	Dr. PranjaliAnkule (I.S.B. &M., Pune)	14/12/2022
2021-22	German Language Training Program for promoting Students for M.S. opportunities in Germany.	Mrs. SunitaShaligram (Trainer Chinmay Educational Consultancy, Pune)	1/03/2022 To 30/06/2022
2021-22	CDAC Preparation, Opportunities	Mr. Ashish Nalawade	31/05/2022
2021-22	EDUCON 2022 (Education Expo)	Pratyusha Employability Development(OPC) Pvt Ltd. In Association with Sawkar Institutes, Satara	14/05/2022 To 15/05/2022

TableNo.9.5a	Counseling	for	Higher	Studies:
1 abici (0.7.5a	Counsening	101	inghti	Studies.

AcademicY ear	Details	Speaker/Expert	Date
2021-22	GATE Orientation Session	GATE Tutor, Pune	22/1/2022
2020-21	Importance of Management Studies and Career Opportunities.	Mr. OmkarTembe	16/05/2021
2020-21	How to Crack Gate Examination	Mr. Akash Pushkar (Gate Academy Pune)	5/12/2020
2020-21	Abroad career opportunities after engineering	Mr. ShubhamSasane <i>(Elevitics, USA)</i>	7/12/2020
2020-21	Prepare yourself for Abroad opportunities (M.S./ M.B.A)	Mr. ShekharBidwai, Director Chinmay Educational Consultancy, Pune	26/11/20
2019-20	Higher Education Opportunities in Abroad	Mr. Nik Kowels EU Business School,Germany (In association with CEC, Pune)	9/02/2020
2019-20	Opportunities after M.B.A.	M.I.R.M., Pune	4/10/2021
2019-20	Orientation Program on GATE by ACE Academy	ACE Academy, Pune	19/09/2019
2018-19	MBA CETEntranceOrientation	K.B.P.I.M.S.R., Satara	11/03/2019
2018-19	GATE Orientation Program	R.I.T. ,Sakharale	24/09/2018

Pre-Placement TrainingActivities:

Following are the activities carried for Pre-placement training;

AcademicYea	Deta	Speaker/Expert	Date
r	ils		
2022-23	Workshop on C,C++ and	Mr. Swapnil Mapari	1/08/2023
	HTML	(Disha Computers,	То
		Satara)	14/08/2023
2022-23	Workshop on C,C++ and Java	Mr. NileshSonawane	7/08/2023
	_	(Design Solution,	То
		karad)	11/08/2023
2022-23	Workshop on AutoCad	Mr. Mahesh Sathe	10/08/2023
	_	(Design Solution,	То
		karad)	18/08/2023

AcademicYe	Det	Speaker/Expert	Date
ar	ails		
2022-23	Workshop on PCB Designing and Manufacturing	Mr. Pravin Mohite (Aprontech, Satara)	7/08/2023 To 18/08/2023

2022.22	Workshop on C C + and	Mag Daga l'Nolonio de	7/09/2022
2022-23	Python	(Servingel's Infotoch)	7/08/2025 To
	Fython	(Squirrel's Infotecn)	18/08/2023
	Workshop on Automation in	TusharInamdar	100012020
2022-23	IOT	(Squarewave	1/08/2023
		Automation Pvt Ltd.	
		Satara)	31/08/2023
	Five days Hands-on	Mr. Nikhil Kamble	
2022-23	Workshop on Web Designing	(Software Developer,	14/06/2023
	and Development	Code Culture, Pune)	То
	using HTML, CSS, PHP,		19/06/2023
	JavaScript and MySQL		
	Five days Workshop on	Mr. AbhirajUbale	22/05/2023
	and MI	(Software Developer,	
		Code Culture, Pune)	26/05/2023
2022-23	Developing Softskills	Mr. SourabhBhosale	13/02/23 to 17/02/2023
	Soft Skills for Emerging	Mr. Santosh Nalawade	10/4/2023
2022-23		(Trainer Aspiring	То
		Careers Pune)	13/04/2023
	English Speaking Session	Mr. Kale A A	1/05/2022
2021-22	English speaking session	(A G C E Satara)	То
		(II.G.C.L., Suturu)	30/06/2022
2021 22	Workshop on CATIA,CEO,	Mr. Sathe Mahesh	1/03/2022
2021-22	SolidWorks for Mechanical	(Design Solution,	То
	Engineering Students.	Pune)	31/05/2022
2021-22	Campus To Corporate	Ms.Bhilare N.S.	1/05/2022
	Activity	Mr. Kale A.A.	То
	1001110	(A.G.C.E., Satara)	30/06/2022
2021-22	Aptitude Sessions	Mr. Patil S.P.	1/03/2022
	-	Mrs. A.D. Kasture	То
		(A.G.C.E., Satara)	30/05/2022
2021-22	Group Discussion:	Mr. Pathak P.A.	14/05/2022
	Etiquettes and Practice	Mr. Kale A.A.	21/05/2022
	-	(A.G.C.E., Satara)	28/05/2022
2020-21	Development of	Prof.	
	Communication Skills	PramodDastoorkar	
		(Professor, MIT	24/11/20
		Academy of Engg,	
		Pune)	
	Attitude Building for	Prof.	
	professional	PramodBhadakawade	
2020-21	Excellence	(Symbiosis	23/11/20
		International	
		University Pune)	
	Yugam – Four Week	1)Mr. Nikhil Korade	
	Training Program on	(SplendorNet	
	Web Designing	Technologies, Pune)	
		2) Ms. Ashwini Padwal	
		(JA Solutions)	29/7/2020
2019-20		3) Mr. ShaileshWagle	То
		(KPIT Hinjewadi)	4/8/2020
		4) Mr. Danish Shaikh	
		(PHP & Java	
		Programmer)	
1		5) Prot.	

		SuhasChavan(Asst Professor, Sinhgad College Pune.) 6) Mr. Roakhande S.A. (HefshinePvt Ltd.) 7) Mr. VikasPomane (CEO, UtrivaPvt Ltd.)	
2019-20	Yugam – Four Week Training Program on Internet of Things.	 1)Mrs.KirtiWanjale (VIIT,Pune) 2)Mrs.VarshaPatil (Lembhe) (JSPM, Hadapsar) 3)Mr.Pravin P. Mote (TATA Communicatios, Pune) 4)Mr.AshishKalambe (Modelcam Technologies Pvt. Ltd, Pune) 5)Mr.NileshBhandare (Sloki Technologies Plt Ltd, Bangalore) 6)Mr.AkshayJadhav (Space Automation, Pune) 7)Mr.NirajKapase (DKTE, Ichalkaranji) 8)Mr.Vaibhav V. Nalawade (Institute of Computer Science, Satara) 9)Mr.PravinKoregave (Infinite Uptime India Pvt Ltd., Pune) 	29/7/2020 To 4/8/2020

Academic Year	Details	Speaker/Expert	Date
2019-20	Yugam – Four Week Training Program on Artificial Intelligence	 1)Dr. Pawar A.B (Sanjivani College of Engineering, Kopargao n) 2)Ms.Pagar Yogita S. (Progressive ES,College of Aurangabad) 3)MrsBalshetwar S.V. (Government College of Engineering, Karad) 4)DrShelakePriya M. (VIIT,Kondhawa Pune) 5)Dr.SaritaPanwar (AISSMS COE, Pune) 	29/7/2020 To 4/8/2020

		 6)MrDhamalTushar .B. (Tata Technology Pune) 7)MsShilpaPimpalkar (AISSMS COE ,Pune) 8)MrRajgudeDattatray a (CyabageTechnology,P une) 9)Mr Gaikwad Vinod (Morning Star,Pune) 10)Mr Tiwari (Cognifront Technology Nashik) 11)Mr. JagdishKolhe (Cognifront Technology Nashik) 	
2019-20	Personality Development Program by Rubicon Skill Development Pvt Ltd(10 th Sept to 12 th Sept, 2019)	Mr. Amar Shinde, Mr. Satya S.	10/9/19 to 12/9/19
2019-20	Workshop on Introduction to Arduno and Basic Electronics	Mr. Vishwajit Kulkarni, AGCE, Satara	9/9/19 To 14/9/19
2019-20	Aptitude Sessions (40 Sessions)	Asst. Prof. S. P. Patil Asst. Prof. S.D. Pawar Asst. Prof. A.D. kasture	1/9/2019 To 13/3/2020

Academic	Details	Speaker/Expert	Date
Year			
2019-20	Yugam – Four Week	Dr.R.R.Sorate	
	Training Program for	(J.S.P.M.Bawadhan)	
	Civil Engineering	Prof.A.P.Khatri	
		(J.S.P.M.Narhe)	
		Prof.Kakade Sir	
		(COE,Pune)	
		Prof. Chafalkar Sir	
		(J.S.P.M.Tathawade)	
		Prof. Ban Sir (Raisoni,	
		Nagpur)	29 June,
		Prof.Mule Sir,	2020 to 24
		(J.S.P.M.Narhe)	July,2020
		Mr.MilindVasudev	
		(Lax Academy)	
		Dr.Minde Sir	
		(MIT,Kothrud)	
		Mr. Jojo Mathew,	
		(HIT,Nidasoshi)	
		Prof. Khandekar Sir	
		(PVPIT, Pune)	
		Dr. Wagh Sir (Zeal	

2010.20	Vuccere Four West	College, Pune) Prof. Vipul Naidu (PVPIT,Pune)	
2019-20	Yugam – Four week Training Program on PCB Design (Electrical Engg. & E&TC Engg.)	Mr. Santosh Chavan (A S M Tracks, Shirwal) Prof. Venkatasaishreenath (BVSR,Ongol, AP) Prof. Sameer Bagwan (ADCET, Ashta) Dr. DhanashreeGawali (Singhgad,Pune) Prof. Vishal Ambhore (VIIT, Pune) Mr. ShridharDudam (Smart Logic Technologies, Pune) Prof. NirajKapse (ElectrowingServies, Ichalkaranji) Mr.PrafullBagade (AutoTech, Nashik) Mr.TejasShilamkar (VertivEngergyPvt Ltd) Ms. Vinaya Kadam (Free Lancer)	29 June, 2020 to 24 July,2020

Academic Year	Details	Speaker/Expert	Date
2018-19	Softskill Development Program (under lead College Activity.)	Mr.Pulkit Singh Ms. Sylviya Johnson (Eka Training)	11/03/2019 To 13/03/2019
2018-19	Group Discussion Practice Session Activity	Mr. Pathak P.A. Mr.Khade V.C. Mr. Nikam P.R. (A.G.C.E., Satara)	6/1/2019 To 27/1/2019



NPTEL Online Certification



This certificate is awarded to

HASAN ALLAUDDIN SHAIKH

for successfully completing the course

IC Engines and Gas Turbines

	with a consol	lidated score	of 52 %		
[Online Assignments	18.97/25	Proctored Exam	33/75	
	Total number of cand	idates certifi	ed in this course: 461	(TUBLENT
	(1	Jan-Apr 202 2 week cour	3 se)	Head. N	Prof. T. V. Bharat Centre for Educational Technology PTEL Coordinator, IIT Guwahati
Indian Institute of	Technology Guwahati			(SWayam
Roll No: NPTEL23ME5556460027	4 To validate t	he certificate		No. of cre	dits recommended: 3 or 4

Fig.9.5.a:Yugam CNC Participant Certificate



Fig.9.5.b:English Speaking Session By Mr. A.A. Kale

Effectiveness: These measures have proven to be effective as it is evident as show in below table.

NBA e-SAR 2022-23

	Placement Percentage			
Student Progression	2021-22	2020-21	2019-20	2018- 19
CSE	83%	84%	81%	66%
E&TC	81%	94%	94%	90%
Civil	60%	85%	88%	91%
Electrical	76%	82%	82%	80%
Mechanical	66%	70%	80%	72%

TableNo.9.5.cYear-wise Placement Data

9.6. Entrepreneurship Cell(5) (Institute Marks: 4)

The Entrepreneurship Development Cell (EDC) is started with the key objective of promoting

and developing special knowledge of Entrepreneurship Development

The aim of entrepreneurship development cell is to improve and generate a culture of innovation amongst the students and budding entrepreneurs and start their own business.

Following activities are conducted by ED cell;

- 1. Entrepreneurship Development Program by MITCON Consultancy & Engineering Services on 18th and 19th January, 2019.
- Organized Industrial Motivation Campaign for Youth by MSME, New Delhi and IGTR, Aurangabad on 18th& 19th October, 2019. (Resource person: Mr. Arnab Bhattacharya, Mr. ShebinCheriyan, Mr. S.D. Salunkhe RSETI, BOI Sangli)
- 3. Participation in **Orientation Program on Promotion and Facilitation of Entrepreneurship** among the students of AICTE affiliated institutes on 1st&2nd February, 2020
- 4. Participation of Students in **One Day Workshop on Entrepreneurship Development** (8 Feb,2020) under Lead College Activity.

5. **Entrepreneurship Development Program** by MITCON Consultancy & Engineering Services on 18th and 19th January, 2019.

6. Talk on **Entrepreneurship Development** by Mr. Kiran Mane from Home Multi- trading Company and Technical Institute, Satara on 9th March, 2022.

7. Organized session "UdyojakataVikasYatra" on 31st August 2023 for inculcating passion for entrepreneurship among the students. A session was conducted before inauguration of UdyojakataVikasYatra. Dr. Dipak Shikrapurkarhas guided students regarding entrepreneurship.

← → C 0	A https://iic.mic.gov.in/instit	ute/my-council					n 0 O
	IIC ID IC201912756	Aravind Gavali	College of Engineering	(C-11245)	Star Ratings (AY 20	021-22) ±	(
🔒 About My Institute 🔺	The deadance is	Treport submission mis been exit	nueu until september 11, 2023.				
* My Profile	< Institute Details	Council Meeting	Add leaching/Nor	n teaching Members	Studen	t Members	Extern
 My Council 	-						
* I&E Courses	+ Add Teaching/	Non teaching Members					
I&E Collaboration							
Submit Expert Session	Roles	Name & Details	Department	Designation	Qualification	Experience in Years	Action
Manage Pre-Incubation / Incubation Details Performance Card	President	Dr. Vilas Pharande vilaspharande@gmail.com 8806661739		Director, Innovation, Incubation, and Linkages			
Manage Activity	Innovation Activity	Mr. Suhas Patil Iamsuhaspatil@gmail.com 9860928844	Mechanical Engineering	Assistant Professor	Post Graduate	10	0
 e-Learning Resources Handholding and Capacity • • • 	Convener,IPR Activity Coordinator	Dr. Gayatri Mirajkar gayatrimirajkar@gmail.com	Electronics and Telecommunication Engineering	Professor	Ac Go Doctorate	tivate Wind to Settings to a 15	ovv cti O lindov
· → C O E	https://ic.mic.gov.in/institu	te/my-council					in 🗿 😉
	IIC ID IC201912756	Aravind Gavali (College of Engineering	(C-11245)	Star Ratings (AY 20	021-22) *	ę
About My Institute My Profile	Start up Activity Coordinator	Mr. Arjun Kadam arjunkadamforu@gmail.com 9730177047	Mechanical Engineering	Assistant Professor	Post Graduate	8	00
My Council I&E Courses I&E Collaboration	Social Media	Mr. Vishnu Khade vishnukhade9453@gmail.com 9545405775	Electronics and Telecommunication Engineering	Assistant Professor	Post Graduate	6	0
Submit Expert Session Manage Pre-Incubation / Incubation /	ARIIA Coordinator	Mr. Vijay Gujar gujar.vijay@gmail.com 7972059171	Computer Science and Engineering	Assistant Professor	Post Graduate	20	00
Performance Card	NIRF Coordinator	Mr. Ankur Kamble ankkam@gmail.com	Mechanical Engineering	Assistant Professor	Post Graduate	7	0
		9067493289					
Manage Activity C e-Learning Resources	Internship Activity Coordinator	9067493289 Dr. Manali Shah shah.manali 1@gmail.com 9822610818	Computer Science and Engineering	Associate Professor	Doctorate	22 tivate Wind	0

Fig.9.6.a: Under ED Cell, institute has registered for Institute Innovation Course



Fig. 9.6.b: UdyojakatVikasYatra organized at Institute.

Sr.	Nameof Student	Program	NameofOrganization	
1	Pandive Amol Sarierao	CIVII	A AEnterprizes Chatkopar	
2	Kaldree Amor Sarjerao		A AEnterprizes, Onatropai	
2	Mana Sourabh Doiirea		Shree Dette Construction, Massued	
5			M/C D i C i C i C i C i C i C i C i C i C	
3	Patil Raj		M/S Raj Constro Corporation India	
6	LoharRohitNamdev	CIVIL	The Engineer's Caffe	
7	JdhavSanketShashikant	CIVIL	Rajveer Builders Satara	
8	SutarOmkar Sanjay	CIVIL	Deeparch Construction, Umbraj	
9	Mali Eknath Sadashiv	CIVIL	Mali Construction, Sangali	
10	Thigale Chaitanya	ELECTRICAL	Vertical Electricals, Vita	
11	Kalbhor Shivraj	ELECTRICAL	Gurudatta Electricals and Engineeers,	
			Satara	
12	Raviraj Mohite	Electrical	Ravi Electricals, Satara	
13	KarandePiyush	ELECTRICAL	Siddheshwar Electricals, Satara	
14	BholeRohit	CSE	3 STAR IT Solutions, Satara	
			(JIJAU IT Solutions)	
15	Jagdale Akash	Mechanical	Four Square Engineering, Pune	
16	<mark>Shaikh Sabar</mark>	Mechanical	CUBE Enterprise, Satara	
17	Avinash Mankar	Mechanical	Solar Enterprises Satara	
18	Prakalp Gogawale	Mechanical	PR Engineering, Satara	
19	Vijay Ghadage	Mechanical	Ajinkyatara Automobile & Services,	
			Satara	
20	<mark>Akash Ghanwat</mark>	Mechanical	Autochoice Car Care, Satara	
21	Sandip Varvate	Mechanical	Renuka Enterprises, Satara	
22	Samadhan Jadhav	Mechanical	Satara Engineering Works, Satara	

Table No.9.6.a list of entrepreneurs

9.7. Co-curricular and Extra-curricular Activities (10) (Institute Marks: 10)

Sports Facilities:

- The Institution has a separate sports ground for outdoor games like Cricket, Football, Volleyball, Kabaddi,Chess etc.
- Institute has indoor sports place for gymnasium, chess, and carom.
- Students are encouraged to participate in various zonal and inter-zonal tournaments. Students participate in inter and intra collegiate and University tournaments.
- The institution has multipurpose seminar hall which is utilized for Yoga & meditation purpose.
- Institute has contributed in **Satara Hill Marathon** Campaign. Students have volunteered in the preparation of campaign and set up the Water Stations.
- Every year Institute is organizing the "**Sawkar Trophy**" Intercollegiate Sports Event to provide platform for the students to showcase their ability, performance and professionalism. Cricket, Kabaddi, Kho-Kho, Bad Minton Competitions are organized under Sawkar Trophy.

Sports Achievements

Academic Year 2022-23				
No	Name of the Student	Level	Event	Rank
1	Shubham dhane	University	Kho-KHo	Participant
2	Ayush Patil			
3	Shreyash Patil			
4	Pravinkumar Mahoor			
5	Akshay Galve			
6	Chaitanya Yadav			
7	Omkar Yadav			
8	Aniket Tikudave			
9	AtharvDhane	University	Chess	Participant
10	OmkarMiraje			
11	Anniruddha Kadam			
12	Hasan Shaikh			
13	OmkarMiraje			
14	AkankshaMatkar	University	Kabaddi	Participant
15	AishwaryaPanvelkar			
16	Arati Gaikwad			
17	Sanjana Jadhav			
18	Vaishnavi Kamble			
19	Shreya Chavan			

TableNo.9.7.aYear-wisestudent's sport achievement

20	Pragati Ghadge			
21	Amruta Deshmukh			
22	Avishkar Kadam			
23	SawantOmkar	District	Badminton (Men's Single)	Runner-up
24	Surve Swaraj	University	Interzonal Wrestling	Winner

Academic Year 2021-22					
No	Name of the Student	Level	Event	Rank	
1	Abhay Sanjay Chorage	Institute	Tug Of War	Participant	
2	Akash AnandraoThorat				
3	Avdhut Ashok Mane				
4	Chaitanya				
_	SiddheshwarWagh				
5	HarshadaKishorShinde	T 1 1 1	T7 1 1 1'		
6	MandharePratikshaSomn	Institute	Kabbadi	Participant	
7	DagadeKshitija Sunil				
8	Kumbhar AadarshRaiend				
Ū	ra				
9	Kanase Abhishek				
	Bapuso				
10	PatilAkshada Ashok				
11	KatkarAkshaliDilip				
12	MalusareAnkitaJagannat				
12	h Shirka Athanya Chandrak				
15	ant				
14	Surveswarai	State	Wrestling	Participant	
	, , , , , , , , , , , , , , , , , , ,	Academic Y	ear 2020-21		
No	Name of the Student	Level	Event	Rank	
1	JadhavAyushDattray				
2	Attar MustanNisar				
3	Gaikwad				
	RushikeshDilip	Institute	Chessmania2K21	Participant	
4	PustakeUtkarsh				
5	Jaddhav Abhishek				
6	ShindeKavita Mohan				
	A	Academic Y	ear 2019-20	T	
No	Name of the Student	Level	Event	Rank	
1	Swaraj Surve	Intercollegi	Wrestling -57kg	Runner Up	
2	OmkarMahadik	ale	Kabaddi	Particinant	
3	Shinde Akshay		(By DBATU, Lonere)	i unterpunt	
<u>л</u>	Mali Kishor				
5	Rhoite Arvan	Linivarait			
6	Shirke Sani	University			
7	Gaikwad Sushant				
/ 	Sutar Pratik				
8	Sutar Pratik				

9	Kalkundrikar Rahul			
10	PawarRushikesh	Linivansity	КНО-КНО	Participant
11	Pawar Mahesh	University	(By DBATU, Lonere)	

No	Name of the Student	Level	Event	Rank
12	Pawarvaibhav	Universit	КНО-КНО	Participant
13	ChavanPrathmesh	у	(By DBATU, Lonere)	
14	Anande Mahesh			
15	KoradeShubham			
16	SawantSachin			
17	Mulik Akash			
18	Nagargoje Krishna			
19	Kadam Vaibhav			
20	JadhavAtul			
21	KhatteAvishkar			
22	Waghmoderohit			
23	MullaAltaf			
24	Chavannamrata	Universit	КНО-КНО	3 rd Prize
25	Gurav Kanchan	У	(By DBATU, Lonere)	
26	SawantShital			
27	Dalvi Pranita			
28	KatkarArati			
29	Vedpathak Poonam			
30	Ingawalepratiksha			
31	Yadav Priyanka			
32	ShindeRutuja			
33	Sakunde Neha			
34	ShingateMayuri			
35	ChavanSakshi		Kabaddi	Winner
36	PatilSnehal		(By DBATU, Lonere)	
37	PatilKarishma			
38	Chavanpooja			
39	More Shubhangi			
40	PawaleHrituja			
41	VelapureDivya			
42	DaphaleSayali	Universit		
43	Bhosale Priyanka	у		
44	Tarade Priyanka			
45	Abhishek katkar		Shot Foot	Participant
46	Jadhav Akash		(By DBATU, Lonere)	
46	Katkar Abhishek		Relay 4*100 meter	Participant
47	JadhavOmkar		(By DBATU, Lonere)	
48	Mali Kishor			
49	MahadikOmkar			
		Academic	e Year 2018-19	

No	Name of the Student	Level	Event	Rank
1	Abhishek Katkar	University	Shot Foot (By DBATU,	Winner
		_	Lonere)	
			Running 100m &	Participant
			200m(By DBATU,	_
			Lonere)	
2	Vaibhavkadam		Running 800m & 1500m	Participant
			(By DBATU, Lonere)	-
3	Avishkarkhatte		Running 2000m	4rth Winner
			(By DBATU, Lonere)	



Fig.9.7.a: Abhishekh Katkar : Football Competition (DBAT University)



Fig.9.7.b: Annual Sports Event "SAWKAR TROPHY"

Contributions:

Satara Hill Half Marathon:

The SATARA HILL HALF MARATHON (SHHM) is held annually in the historic city of Satara, the erstwhile capital of the Maratha Kingdom founded by the legendary Warrior King Shrimant Chhatrapati Shivaji Raje Bhosale. The SATARA HALF HILL MARATHON is a proud member of the AIMS [Association of International Marathons and Distance Races] SHHM holds the <u>Guinness World Record</u> for the 'Most People in a Single Mountain Run'. Usually held in the month of September, the event attracts runners from all over India & running enthusiasts from all around the world.

No.	Name of the Event	Date	Contribution	
1	SHM 2019 (Satara Hill	25/08/2010	Voluntaars Water Stations	
1	Half Marathon 2019)	23/08/2019	Volunteers, water Stations	
2	SHM 2018 (Satara Hill	02/00/2018	Volunteers, Water Stations	
	Half Marathon 2018)	02/09/2018		
3	SHM 2022(Satara Hill	18/00/2022	Voluntaars Food Stations	
	Half Marathon 2022)	18/09/2022	Volunteers, Food Stations	
4	MAS Marathon 2022	02/10/2022	Volunteers, Food Stations	



Fig.9.7.c : MAS Marathon 2022 Activity for Runners

Cultural Facilities:

- Institute has dedicated cultural Club to facilitate various cultural Activities like Vaccination camp, Independence & Republican Day Celebration, Blood Donation Camp, Shivjayanti Celebration. To carry out above cultural activities separate space is provided in the Institute.
- Institute organizes Annual Social Gathering "Tarunai" every year.
- Students participates in various extra-curricular activities like Rangoli, along with celebration of various days like Rose Day, Chocolate Day, traditional day, Mismatch Day, Sari and Tie Blazer, Hollywood/Bollywood day etc.
- Variety entertainment programs including classical & western dance performances, singing & mimicry, fashion show etc. are organized in the institute for all the students.

- In this regard, institution has formed various committees for participating and organizing the cultural and sports activities. Every department has its own association through which various department symposiums, project presentation and other technical and nontechnical events are being conducted.
- These association activities benefit in developing leadership skills and make them work in teams.

Sr.	AcademicYea	Details Of Cultural Event	Number Of Students
No.	r		Participated
1	2022-23	Shivjayanti Celebration	350
2		Western day & Mis Match day	522
		(05/05/2023)	
3		Tie Blazer,Saree& Rose Day	650
		(06/04/2023)	
4		School Dress & Food stall	467
		(07/04/2023)_	
5	2021-22	ShivSwarajya Din(6/6/2022)	620
6		Tarunai 2022 (4/05/2022)	367
7		Holi Celebration(22/03/2022)	268
8		Shivjayanti Celebration	552
		(19/02/2022)	
9		SavitribaiPhule Jayanti	254
		(3/01/2022)	
10	2020-21	Shivjayanti Celebration	272
11		(19/2/2021)	
11		Marathi Rajyabhasha Divas	70
10		(27/2/2021)	100
12		Women's Day and self defense $S_{accient}(8/2/2021)$	103
10		$\frac{\text{Session}(8/3/2021)}{\text{T}_{1}}$	102
13		$\frac{1}{2} \frac{1}{2} \frac{1}$	182
14		Sadi & Tie Blazer $d_{\text{ext}}(20/2/2021)$	147
15		day(20/2/2021)	146
15		$d_{\text{ev}}(21/02/2021)$	140
16		day(21/02/2021)	160
10	2010-20	Chocolate Day(25/02/2021)	250
17	2019-20	Celebration(15/08/2019)	559
18		Dandia Cultural Event	575
10		Celebration $(4/10/2019)$	515
19		Technical Rangoli	144
17		Competition(25/01/2020)	1 77
20		Western Day, Funky Day and	233
		Twins $Day(14/02/2020)$	
21		Sadi Say and Tie blazer	280
		Day(15/02/2020)	
22		Bollywood,Hollywood,Tollywo	275
		od .Mismatch Day(16/02/2020)	

TableNo.9.7.c: Cultural Event participant data

23	Scool Dress Day and	245
	Department Day(17/02/2020)	
24	Shivjayanti	629
	Celebration(19/2/2020)	
25	Traditional Day(19/02/2020)	168
26	Annual Day- (Tarunai-2020)	731
27	"NIRBHAYA" Walkathon by	80
	Nirbhaya Police Pathak	
	(17/02/2020)	



Fig.9.7.d:Annual Cultural Event "TARUNAI"



Fig.9.7.f: Shivjayanti Celebration

National Service Scheme (NSS):

As per the guidelines of DBATU, Lonere, the Institute has formed a NSS unit of students and staff. The NSS unit in the college provides a platform for various socially relevant services such as:

- Providing guidance to students studying in the rural areas
- Creating awareness about the natural disasters such as flood, earthquakes in the student community
- Arranging and Participating in Swatchhata Awareness Ralley and Swatchhata Camps in Villages.
- Organizing Camps in Villages for delivering services to society and creating social awareness among students
- Spreading awareness about traffic rules and safety measures among staff members and students
- Having discussions regarding the various challenges faced by the youth.

The NSS wing of the college encourages the students in community development activities which motivate the students for Social Service. The college NSS team regularly visits surrounding areas and villages where people are made aware about various social, moral and ethical issues.

NSS Activities

Sr.No	Academic	Date	Event Name	
	Year			
1		14/1/2019	NGC Come At Distantes Company Cotons	
I		10	NSS Camp At Bhaleghar, Sanpane, Satara	
2		21/07/2018	Tree Plantation	
2	2010 10	02/10/2018	"Swatchhata Awaranass Ballay"	
3	2018-19	25/01/2019	"National Voters' Day"	
5		06/02/2019	Road Safaty Guest Lecture	
5		22/02/2019	"Swatchhata Camp"	
7		23/02/2019	Blood Donation Camp	
/ Q		23/02/2019	"Ial Dives" Calabration	
0		12/08/2019	Activity for helping People of flood Affected	
9		12/00/2019	Activity for helping reopie of flood Affected	
10		2/10/2019		
10		2/10/2017	"Swatchata Hi Seva" Activity	
		17/01/2020	"Road Safety Week" (Session for Guidance	
11			on Road Safety and Rules by Mrs. Afreen	
	2019-20	2(10110000	Mulani (RTO Officer Satara)	
		26/01/2020	Participated and Guided regarding the	
12			CPAMSABHAs of 5 Villages (Denchwad	
			Kudal Panmalewadi Varve Bhuini)	
		2/2/2020		
13		То	NSS Camp at Anewadi, Satara	
_		8/2/2020		
14	2020.21	15/08/2020	Arscenic Album Distribution Activity	
15	2020-21	21/03/2021	Tree Plantation	
16		4/03/2022	Food Donation at Villages	
17		4/03/2022	Swatchhata Abhiyan	
18			Health Checkup Camp	
19	2021-22	5/3/2022	Blood Donation Camp	
20			Tree plantation	
21		6/03/2022	Dustbin Donation Activity	
22		20/06/2022	No Vehicle Day	
23		15/8/2022	Independence Day	
24	2022-23	14/11/2022	Children Day	
25		8/12/2022	Lek Ladki Abhiyan	
26		12/1/2023	Jijau jyanti,Swami Vivekananda Javanti	
27		26/1/2023	Republic Day	
28		19/2/2023	Shivjayanti	
29		23/2/2023	Blood Donation	
30		8/3/2023	Women's Day	

TableNo.9.7.d: Year wise list of NSS activities



Fig.9.7.f: NSS CAMP at Jalgaon, Koregaon, Satara



Fig.9.7.g: NSS CAMP at at Jalgaon, Koregaon, Satara



Fig.9.7.h: Arsenic Album Tablets Distribution

Unnat Bharat Abhiyan (Contribution in Rural Development)

Unnat Bharat Abhiyan (UBA) is a flagship programme of Ministry of Human Resource Development (MHRD), Govt. of India. The Institute is participating in Unnat Bharat Abhiyan and adopted villages for their development in collaboration with district administration. Institute has adopted following villages:

1. Panmalewadi 2. Varye 3. Bhuinj 4. Panchwad 5. Bamnoli T. Kudal



Fig. 9.7.j: Guidance in GramSabhas under UBA

Co-curricular Activities:

Students are motivated to participate in National level Competitions related to Project Presentation, Paper/Poster Presentation, Debate, and Idea Presentation. Every year students are encouraged and guided to participate **Smart India Hackathone**, **AVISHKAR**, **DiPEX**. Because of such initiatives a competitive spirit and passion towards innovations are developed among the students.

Sr.	AcademicYear	Name of the Competition	Number of students
No.			participated
1	2022-	KJSIT-IET-INTECH-2K23	15
	23	Poster cum Project Competition	
2		ROTRAX 2023	02
3		DIGIT-2K23	02
4		Yasho-Tech- Fest- 2023	06
5		Tech-Fest 2k23 By Kisanveer	01
	-	College, wai	
6		PHN Advanced Technology	04
		Online Workshop on Android	
	-	Development	
7		TECHNOVATION-2023	03
8		Java Training by Besant	02
		Technology	
9		Brain-it-On 1.0	03
10		DCODE 2k23	01
11		Technical Project Competition	12
12		Kurukshetra 2K23	02
13		MATPO Aptitude Idol-2023	35
14		AVISHKAR 2022	12

TableNo.9.7.e Project and ot	her national level	l Competition pa	rticipant data
------------------------------	--------------------	------------------	----------------

Sr.	AcademicYear	Name of the Competition	Number Of Students Participated
15	2021.22	National Level Project	
15	2021-22	Compatition (by KI Someive	04
		Institute of Engineering and	
		Institute of Engliseering and	
		Sion Mumbai)16/04/2022	
16	-	National Lavel Project	01
10		Compatition (by	01
		Competition (by PharatiVidypaeth Callaga of	
		Engineering Dune)21/05/2022	
17	-	National Lawal Drain at	05
1/		National Level Project	03
		Competition (by Yashodna	
		Technical Campus Satara	
10	-	9/05/2022)	07
18		Internal Hackthon of Smart India	06
10	-	Hackthon 2022) 28/04/2022	07
19		Smart India Hackthon Finale at	06
		Bhilai Institute of Tech, Durg,	
	-	Chhattisgarh. (26/08/2022)	
20		Impact Lecture Session under	05
		KAPILA on Intellectual property	
		, literacy and awareness	
	-	campaign (24/6/2022)	
21		Impact Lecture Session on	06
		Intellectual Property Rights and	
	-	Startups (29/6/2022)	
22		Impact Lecture Sessions	05
		sponsored by MoE's Innovation	
		Cell, AICTE on Inception of a	
		Startup. (28/7/2022)	
23		TEQIP III Sponsored Two Days	04
		Online FDP on "Medical	
		Imaging: Special Topics in	
		Magnetic Resonance Imaging "	
----	---------	---------------------------------	----
		(24/9/2021)	
24	2020-21	Five Days online FDP on	04
		"Recent Advances in Health 5.0	
		In-line with NEP 2020"	
		(22/3/2021)	
25		DiPEX (Project Presentation	03
		By Tantra	
		shikshanVidyarthiKarya,Kolapur	
		Division and Dipex) 20-	
		23/05/2021	
26	2019-20	AVISHKAR 2019-2020 04	
		Zonal Level Competition by	
		DBATU	
27		AVISHKAR Intercollegiate 80	
		Poster Presentation Competition	
28		PROTECH 2020 at Symbiosis	02
		International University, Pune	



Fig.9.7.k: National Level Project Competition CRETTECHNOVA 2k23 College of Engineering, Malegaon, Baramati



Fig.9.7.1: MATPO Aptitude Idol Participation

Student Chapter Formed: Indian Geotechnical Society:

Student Chapter is formed under Indian Geotechnical Society (I.G.S.), Pune by Department of Civil Engineering. Under the chapter, guest/expert Lectures Geotechnical Field, industrial visits, workshops are supposed to be conducted. This chapter helps students to explore different aspects of geotechnical Field. This chapter promotes activities to inculcate passion towards geotechnical field and guides career opportunities in geotechnical field.



Fig.9.7.m: Inauguration of Indian Geotechnical Society-Pune Chapter

Institutional Member of Indian Society for Technical Education (ISTE):

The main goal of this membership is to provide the technical opportunity for students to broaden their knowledge of engineering and to interact with eminent faculties of the organization. An Institutional membership can allow students to cultivate their interest in engineering. It can introduce students to possibility of future study or employment in engineering.



9.7.n: ISTE student Chapter Formed

International Society for Research and Development, London Students chapter

The kinds of activities a student chapter can undertake are endless, depending on the creativity and interest of each group. But here are a few examples of academic, social, and professional activities that may be of interest to your group. Distinguished Speakers Program/ Lectures, posters, make a Website, Communication Workshop etc.

Manufacturers Association of Satara

The Institute has opted for MAS Membership in order to bridge the gap between institute and Industry. MAS have been playing a significant role in accelerating the industrial development of Satara region for more than three decades now. The major activity of MAS is arranging seminars & workshops for Students and members. Arrange & facilitate expert consultation to members. Try to promote industry friendly atmosphere in Satara region.

Photography Club:

Institute had formed Photography Club to encourage the students to showcase their photography skills and view towards the things around them. The Club is arranging the Photography Competition to promote the skills of students and develop their ability to participate and compete others. The Photography competition was conducted 10th September 2019. Students have participated with the photos they have taken and explained their views/opinion on the same.



Fig. 9.7.1: Photography Competition organized by Photography Club

IoT Club:

Institute had formed IoT (Internet of Things Club) to explore the opportunities in the Internet of Things domain. The students from all department can participate in the activities related to Internet of Things. IoT Club had arranged industrial visit to C.O.E., Pune's BHAU Institute. During visit hours students were guided regarding the IoT, A.I.,M.L. by Mr. Nikhil Bhaskaran, and Ms. Sejal Gupta. Also IoT club guides and helps students regarding internet of Things projects.



9.7.0: Visit to BHAU institute At C.O.E. Pune.

Robotics and Automation Club:This club is formed to inculcate passion towards the Automation, Robot Making, PCB Designing among the students The objective of this club is to aware the students about future of Industrial Automation by Robotics. Under this club workshop is conducted to help students gain knowledge related to industrial automation. In this workshop students are learnt to operate and Program the Kuka Robots, PLC Programming.



9.7.p: Training Program offered in association with .

Cloud Computing Club: The major objective of our group is to raise technical awareness of cloud and devops on our campus. We are an interdisciplinary cloud club, so rather than concentrating on just one cloud provider like AWS or GCP, we will cover a wide range of providers including IBM, Alibaba, and many more. Instead of offering more theoretical lectures, we will concentrate on bringing practical events. We make an effort to give our trainees practical, industrial experience.

Competitive Exam Club:

This club helps students to get all information regarding the competitive examinations such as U.P.S.C., M.P.S.C., RRB, I.B.P.S.,M.S.E.B.. Guest lecturers from Experts are conducted to guide the students regarding the preparation and prerequisites of the examinations.

Special Batch:

This club is formed to encourage the students to prepare and pursue career in Arm Forces (Army, Navy, Air Force). Motivational sessions are conducted to bring patriotism among the students. Students are guided about various exams like Technical Graduate Entry, University Entrance Scheme, Short Service Commission. Students are trained for these examinations under the guidance of Dr. S.P.Lavand (Ex. Navy Officer).



Fig.9.7.q : Students visited 22MAH BN NCC Camp at Mahagaon, Satara

Electro Club:

This club is formed to inculcate passion towards the Automation, Robot Making, PCB Designing among the students. This club arranges the sessions to guide the students to develop skills required for Industrial Automation, Robot making. This club arranges the training and competitions for providing the platform to showcase their skills and hard work.

Foreign Language Club:

Institute has taken initiative for promoting students to understand the importance of foreign languages and opportunities after learning them. Institute has started the German Language Training program for students. Here students are guided regarding the learning curve of the languages by organizing training sessions, guest lectures.

3D Printing Club:

The objective of this club is to aware students about 3D printing. This club is taking initiatives to help students understand how the designer's role has evolved over time and how it is likely to change as we move toward mass customization. Activities under 3D Printing club aware students to use the principles of Design and Identify opportunities to apply 3D printing technology for time and cost savings



9.7.r : Demonstration of 3D model creation

Lek LAdki Abhiyan:

The Institute is proud to be associated with LEK LADKI ABHIYAN - A NGO working for development of Women. The "LEK LADKI ABHIYAN" under the leadership of Advocate Varsha Deshpande is organizing the events to develop awareness among the women. Institute is participating in all the program organized under LEK LADKI ABHIYAN such as LAGHUPAT MAHOTSAV.



9.7.s :Participation in LAGHUPAT MAHOTSAV related to Woman Awareness

Sr.	Academic	Activities	Date
No.	Year		
1	2022-23	Recent Trends and Opportunities in IT By Mr. Shivraj Gaikwad (Papportsoft Consultancy & Technology, Pune)	19/05/2023
2		IT Career in Digital Marketing by Mr. AjinkyaPawar (AJDM India, Satara)	10/03/2023
3		Campaigning against violence about women	8/12/2023
4		Opportunities is IT Industry and Japan (Mr. Bipin Kadam, Thinksmart Soft, Tokyo, Japan)	03/05/2023
5		Workshop on Industrial Robotics and Automation	14/08/2023
6		Five days Hands-on Workshop on Web Designing and Development using HTML, CSS, PHP, JavaScript and MySQL	14/06/2023 to 19/06/2023
7	2021-22	Visit to NCC Camp at Mahagaon for Seminar	2/06/2022
8		Guidance on Competitive Examination by Mr. AkshayJadhav (Infinity Academy, Pune)	6/04/2022
9		Awareness program about Girl Child.	3/01/2022
10		One day python programming workshop By Mrs. SnehalKasurde	20/11/2021

Sr. No.	AcademicY ear	Activities	Date
11	2021-22	One day Network security workshop By Mr. Prashant Patil	16/12/2021

12		Hands on data analytics using Tableau workshop by Ms. PimpalkarShilpa	27/12/2021
13		3D Printer installation	09/7/07/2021
14	2020-21	Career in Software Testing, Prerequisites and Opportunities by Mr. Sushant Sankpal	09/05/2021
15	2019-20	Resume Building and Interview Technique workshop By Mr. N.S. Juvekar	23/03/2020
16		Guest Lecture onIntroduction to CareerOpportunities in SystemNetworking by Mr.AjitSutar	11/09/2019



Fig.9.7.t: Master KishorGhadge from Mechanical got opportunity to study in Germany



Fig.9.7.u: Master UtkarshPustake from Mechanical got opportunity to study in Germany

CRITERION	GOVERNANCE, INSTITUTIONAL	120
10	SUPPORT AND FINANCIAL	
	RESOURCES	

10.1 Organization, Governance and Transparency		(40)
10.1.	.1 State the Vision and Mission of the Institute	(05)
A.	Availability of the Vision & Mission statements of the Institute	(02)
B.	Appropriateness/Relevance of the Statements	(03)

A. Vision & Mission statements of the Institute

Vision:

To be an institute of excellence, developing skilled engineers to serve the industry and society.

Mission:

Our Mission is to

- M1: To provide quality education through effective teaching learning process.
- M2: To develop professional skills and promote innovation among students by providing a conducive atmosphere.
- M3: To inculcate ethical values, respect for the environment, and social responsibility.

(03)

B. Appropriateness/Relevance of the Statements

Vision:

To be an institute of excellence, developing skilled engineers to serve the industry and society.

Through excellence in key terms and strategy, the institute informs development while also articulating its purpose to stakeholders. The aims and objectives are used to measure the institute's success. Excellence in engineering education system towards greater cause of society through the implementation of projects to address societal issues and commitment to readiness of industry-oriented skill to serve in industry as a professional engineer by incorporating expert lecture series through industrial experts and internships in line with National Education Policy 2023.

Mission:

M1: To provide quality education through effective teaching learning process.

We choose to offer students a top-notch education by embracing ICT technologies and projectbased learning. We have been able to develop a variety of learning experiences through industrial expertise, real-world settings, and inquiry-based learning thanks to the use of innovative teaching techniques.

M2: To develop professional skills & promote innovation among students by providing conductive atmosphere.

The institute fosters an environment where students can develop their technical and soft skills through project competitions, creative ideas for "AVISHKAR," patent filing, NPTEL registration, expert-led soft skill workshops, execution of training and placement activities, internships, etc.

M3: To inculcate ethical values, respect for environment and social responsibility.

The institute has organized a workshop on ethical values to outline ethical workplace principles such adhering to institute policies and procedures, effective communication, accepting responsibility, professionalism, mutual respect, and trust. The institute has also planned and taken part in environmental and socially conscious events, such as tree planting, cleanliness campaigns, geo-tagging, no car days, distribution of dustbins, mask and tablet donations, vaccination camps, and self-defense workshops.

10.1.2 Governing body, administrative setup, functions of various bodies, service rules,procedures, recruitment and promotional policies(10)

- A. List the Governing Body Composition, senate, and all other academic and administrative bodies; their memberships, functions, and responsibilities; frequency of the meetings; participation details of external members and attendance therein (4)
- B. The published service rules, policies and procedures with year of publication (3)
- C. Minutes of the meetings and action-taken reports (3)

A. Administrative bodies

Governance of the institution is reflective and in tune with the vision and mission of the institute. The decentralisation of authorities and responsibilities is carried out through different committees which will be ensured by committee members of various committees under the governing body.

ROLE OF GOVERNING BODY

The Board of Governors is the governing body for the institution, collectively responsible for framing the policies, implementing the institution's activities, determining its future direction, fostering an environment in which the institutional mission is achieved according the developmental plan.

PRIMARY ACCOUNTABILITIES

- To approve the mission and strategic vision of the institution.
- To ensure the establishment and monitoring of proper effective and efficient systems of control and accountability.
- Monitor Institutional performance and quality assurance arrangements.
- To put in suitable arrangements for monitoring the Head of the institution's performance.

Governing Body of Institute

Table 10.1.2a Members of Governing Body of Institute

Sr. No	Name of the person	Designation	
1	Mr. Gavali Nishant Arvind	Chairman	
	Hon. Secretory, Samarth Educational Trust, Satara		
2	Shri. Gavali Arvind Kondiram	Secretary	
	Hon. Chairman, Samarth Educational Trust, Satara	Scolotary	
3	Shri Shanbhag Ramesh Shamrao		
	Member of Trustee, Samarth Educational Trust,	Member	
	Satara		
4	Dr. Sou. Shete MahanandaVishveshwar		
	Member of Trustee, Samarth Educational Trust,	Member	
	Satara		
5	Mr. Gavali Dilip Kondiram		
	Member of Trustee, Samarth Educational Trust,	Member	
	Satara		
6	Mr. Ramesh Unnikrishnan	Member	
	AICTE Western Regional Officer, Mumbai		
7	Dr. Nandanwar D.R.	Member	
	Joint Director, DTERO, Pune		
8	Mr. Narkar K.M.		
	D.Y. Patil Engineering College Kasaba Bavada,	Member	
-	Kolhapur		
9	Dr. Chitlange M.R.	Member	
10	Joint Secretory, MSBTE RO, Pune		
10	Mr. Mali Milindkumar S.		
	Associate Professor Member		
1.1	Singhad College of Engineering, Pune		
11	Mr. walkar Olikar Supromo Sliloonosong Trinity Enterprises Duno		
10	Supreme Siliconesans Trinity Enterprises Pune		
12	Mr. Bidwai Shailesh P.	Member	
12	Chairman S.P. Packaging LTD		
13	MIT. GODDOIE ASINUTOSIN	Member	
1.4	Cal Mr. Kanaga Dramad A		
14	Ex Servicemen & Professor	Member	
15	Dr. Scivictilian & Fluitsson Prof. Hingmire Vishal Charad		
15	Assistant Professor	Member	
	ArvindGavali College of Engineering Satar		
16	Mr. Pathak Pranay Avinash		
10	Assistant Professor Arvind Gavali College of Engineering Satara		
17	Dr. Pharande Vilas Ariun		
1/	Principal Member		
Arvind Gavali College of Engineering, Satara			

Role and Functions of Governing Body

Good governance of the technical institution plays an important role in the growth and development of the Institution. Governing body acts professionally and approves the ultimate goal of the Institution. The governing body is unambiguously and collectively responsible for overseeing the institution's activities, determining its future direction and fostering an environment in which the institutional mission is achieved. The body meets twice a year and proceedings of the meetings should be maintained properly. The college is governed by the Governing body, which is constituted as per AICTE and trust norms. A governing body should perform all four types of functions, i.e. managerial, administrative, academic and financial. A governing body should perform the following functions in each category:

A) Managerial:

- Provide Vision: Governing body should initiate the process of crafting the vision statement and preparing vision documents of the institution.
- Inculcate Values: Governing body encourages the establishment of a value system to achieve vision, missions, and goals of the Institution.
- Act as a buffer: Governing body serves as a bridge and buffer between the institution and stakeholders.
- Support the head of the Institution: Governing body should support the head of the Institution to carry out the business of the Institution. There should be a good relationship between the head of the Institution and the governing body.
- Oversee the functioning of the Institution: Governing body should monitor and evaluate the Performance of the Institution on a regular basis against set goals.

B) Administrative:

- Approval: Governing body should approve annual reports of the Institute.
- Approval of Policies: Governing body should approve a recruitment policy. It should approve and review procedures for the selection, recruitment and transfer of faculty and staff members. It should approve service conditions, emoluments and travelling allowances for teaching and non-teaching staff of the Institute. It should approve the policy of appointing a consultant, visiting faculty, experts and other people based on need.

Evaluate the performance of head of the institution: Select, support and evaluate the performance of head of the Institution. The governing body manages the institution and its performance through the head of the institution. The head of the Institution should possess abilities to manage the institution according to the wish of the governing body.

C) Academic:

- Approval: Governing body should approve the new program of studies leading to a diploma, post-diploma, undergraduate, postgraduate and Ph.D.
- Utilization of academic resources: Governing body should ensure full use of the academic potential of the institution in various academic activities.

D) Financial:

- Approval: Governing body should approve the annual budget & expenditure.
- Audit: Governing body should appoint a qualified auditor every year to conduct the audit. Consider the issues raised by the auditors for improvement in finance utilization.
- **Financial health:** Governing body should ensure the good financial position of the institution through proper planning and utilization of funds.

C. College Development Committee of the Institute (formerly known as Local Managing Committee)

Fable 10.1.2b	Members of	College	Development	Committee o	of Institute
----------------------	------------	---------	-------------	-------------	--------------

Sr. No	Name of the person	Designation
1	Mr. Gavali Nishant Arvind	Chairman
2	Mr. Hingmire Vishal Sharad	Member
3	Mr. Patil Suhas Prakashrao	Member
4	Dr. NayakMeghya Banoth	Member
5	Dr. Thombare Vijay Ramchandra	Member
6	Adv. Ayachit Arundhati Sanman	Member
7	Sou. Mandhare Rajani Mahendra	Member
8	Sou. Kamble Rupali Ravi	Member
9	Mr. Kanase Nitin Uttam	Member
10	Mr. Patwardhan Amey Dipak	Member
11	Dr. Pharande Vilas Arjun Secretary	

Role and Functions of College Development Committee

As per the Maharashtra University Act, separate Local Managing Committee is constituted for the day to day functioning of the college. This committee should meet two times a year and proceedings of the meetings are maintained properly. Members elected or nominated shall have a term of five years. The committee comprises of the Chairman of the management, Secretary of the management, three local members nominated by the management, three teachers elected by the institution, one non-teaching employee and

Principal- Member Secretary.

The frequency of meeting: Twice in a year

The duties of the local managing committee are:

- Prepare the budget and forward it to the governing body.
- Determine the program of instruction and internal evaluation and to discuss the progress of studies in the college.
- Monitor the academic function of the college and extracurricular and co-curricular activities.
- Make recommendations to the management for the improvement of the standard of teaching in the college.
- Formulate proposals of new expenditure not provided for in the college budget if any.

Internal Quality Assurance Cell (IQAC)

To ensure quality in the teaching-learning process and maintain academic up gradation IQAC is formed. IQAC works towards the realization of the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institutions.

Sr. No.	Name	Designation	Organization
1	Dr. Vilas Pharande	Chairman	Principal, AGCE, Satara
2	Mr. Vishal Hingmire	Coordinator	Assistant Professor, AGCE,
3	Mr. Nitin Kanse	Member	Registrar, AGCE, Satara

 Table 10.1.2c Members of Internal Quality Assurance Cell (IQAC)

4	Mr. Chetan Nalawade	Member	MD, Shuddha Milk and Milk Products, Satara
5	Mr. Samadhan Jadhav	Member	MD, Satara Engineering Work, Satara
6	Mrs. Shakuntala Pawar	Member	HR Head, Mutha Foundry,
7	Mr. Omkar Waikar	Member	CEO, Supreme Silicones & Trinity Enterprises, Pune
8	Mr. Abhay Khanaure	Member	MD, Meretech, Pune
9	Mr. Sushant Gaikwad	Member	Social worker & Coordinator at Mhada, Pani Foundation
10	Mr. Rohit Bhole	Member	MD, 3 Star IT Solution, Satara
11	Mr. Abhay Gujar	Member	Assistant Professor, AGCE,
12	Mr. Suhas Patil	Member	Assistant Professor, AGCE,
13	Mr. Somesh N.S.R	Member	Assistant Professor, AGCE,
14	Ms. Ashwini Kasture	Member	Assistant Professor, AGCE,
15	Ms. Shital Ghate	Member	Assistant Professor, AGCE,
16	Mrs. Rajani Mandhare	Member	Assistant Professor, AGCE,

Role and Functions of Internal Quality Assurance Cell

- Development and application of quality benchmarks/parameters for the various academic and administrative activities of the Colleges.
- Facilitating the creation of a learner-centric environment conducive for quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
- Dissemination of information on the various quality parameters of higher education.
- Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles.
- Documentation of the various programmes/activities of the College, leading to quality improvement Acting as a nodal agency of the college for coordinating quality-related activities, including adoption and dissemination of good practices.
- Development of the Annual Quality Assurance Report (AQAR) of the College based on the

quality parameters/assessment criteria developed by the relevant quality assurance body (like NAAC, NBA, AB) in the prescribed format.

Above administrative bodies meetings are conducted minimum two times in year. Minutes of meetings are maintained in respective registers.

Name of	Frequency	2018-19		2019-20		2020-21	
Committee	of	Date of	No of	Date of	No of	Date of	No of
	Meeting	Meeting	Presen	Meeting	Present	Meeting	Present
			t		Membe		Members
			Memb ers		rs		
Governing	2	2/06/2018	11	15/08/2019	10	15/06/2020	11
Body		26/01/201 9	10	26/01/2020	10	15/06/2021	11
College	2	2/06/2018	07	14/06/2019	07	17/05/2021	11
Developme nt Committee		2/01/2019	07	16/05/2020	11	NA	NA
Internal	2	11/09/201	10	26/01/2020	14	15/06/2020	14
Quality Assurance		8					
Cell		15/11/201	16	NA	NA	23/02/2021	15
		9					

Table 10.1.2d Frequency of Administrative bodies meetings

Name of	2021-22	2022-23

Committee	Frequency	Date of	No of	Date of	No of
	of	Meeting	Present	Meeting	Present
	Meeting		Members		Members
Governing	2	15/06/2021	11	13/08/2022	12
Body		11/03/2022	12	04/03/2023	10
College	2	17/05/2021	14	12/06/2023	10
Development Committee		NA	NA	17/08/2023	10
Internal	2	14/06/2021	14	12/08/2022	14
Quality Assurance Cell		03/03/2022	13	03/03/2023	14

dbatu.ac.in/aca	patu.ac.in/academic-council/					
	7 Septer	nber 2023 Skip to Main Content Screen Reader Access Select Longuage 🗸 Fort Resize: 🔥 🗛				
		Dr.Babasaheb Ambedkar Technological University হাঁ. ৰাৰামাটৰ আৰত্তকৰ বসখান্দ বিদ্যাপীত Lonere-402103 Tal- Mangaon, Dist- Raigad (M.S.) India.	Searc	h Search Redu	c	
	*	University v Governance v Examination Academics v Affiliation Student Con	mer Research	IQAC More 🗸 Get In Touch		
	Academ	ic Council				
	Sr.	Academic Council	Designation	G2 आज़ारी अमृत महोल्स National Education Policy 2020	1	
	No. 01	Professor (Dr.) Karbhari V. Kale Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Lonere	Chairman	Pain Quick Links		
	02	Dr. S.L. Nalbalwar Dean (FoET)	Member	> About University > History		
	03	Dr. S.M. Pore Dean (R&D)	Member	> Vision & Mission		
	04	Dr. H.N. Warhatkar Head, Department of Mechanical Engineering	Member	 University Emblem Institutional Values and Best 		
	05	Dr. A.W. Kiwelekar Head, Department of Computer Engineering	Member	Practices > विद्यापीठ गीत		
	06	Dr. Sangita Dahotre Head, Department of Physics	Member	> University Information Brochure		
	07	Dr. S.M. Jadhav Head, Department of Information Technology	Member	Acts, Rules, Ordinances and Statutes Perspective Plan (2020-25)	-	
	08	Dr. A.R. Chavan Head, Department of Chemical Engineering	Member	 Perspective Plan (2016-21) 		
	09	Dr. Sanoita Melkar Head, Department of Petrochemical Engineering	Member	Strategic Plan (2016-21)		
	10	Dr & P. Shesh Head, Denatment of English	Member	> AQAR		
	44	Dr. HEAD Saladay Hoad Daradmant of Elactrical Engineering	Mambar	Mandatory disclosure AICTE FOAD OA		
	11	LR. MEANS Salarkar nead, Lepartment of Electrical Engineering	Member	 NISP Action Plan Dr. BATU Lonere 	-	
	12	Ur. H.A. Mujawar Head, Department of Chemistry	Member	> National Innovation and Start Up Policy		
	13	Dr. Vilas Pharande Principal, Arvind Gavali College of Engineering, Pune	Member	> Governance > The Chancellor		

Tel: (02140) 275142 Student Helpline Website: www.dbatu.ac.in, E-mail: registr	ere - Kaigad 402 103 (Maharashtra) 2: 02140 - 275212 2ar@dbatu.ac.in
Dr. Bhagawan F. Jogi	डॉ. भगवान फ. जोगी
Registrar	कुलसचिव
To	DBATU/REG/AC/ 40 Dated: 15th May, 2023
Prof Vilas Pharando	
Arvind Gawali College of Engineering	
At. Panmalewadi, Post - Varve.	
Tal & Dist. Satara - 415 015	
Subject: Nomination on the Academic Council of of DBATU Act 2014 and University Statut	the University as per Section 30 (1) (f) tes
Sir,	
Academic Council of the University is considered, as p 2014 and University Statutes. I am pleased to inform 'Member of the Academic Council' of the University. The tenure of your membership on the Academic Council 14 May, 2026 as per Section 30 (2) of DBATU Act 2014.	er the Section 30 (1) (f) of DBATU Act you that you have been nominated as ncil will be for three (3) years i.e. upto
The committee member should follow the University Ac Government's and Various Apex Bodies time to time.	t, Statutes and Rules and Regulations of
You are requested to send your acceptance of the same	on or before 22/05/2023.
and Longer	(Dr. B F. Jogi) Registrar
Encl: Format of Acceptance is attached herewith	Dr. Babasaheb Ambedkar Technological Univers LONERE 402 103, Tal Munson Dist Bainad (Maharashtra)
Copy for Information:	and and and and (managed)
1. Hon. Vice-Chancellor, Dr. Babasaheb Ambedkar Tech	nnological University, Lonere
1. Hon. Vice-chancellor, Dr. Babasaneb Ambedkar Tech	nnological University, Lonere

10.1.2e Principal Dr. Vilas Pharande is DBATU University Academic Council member

1



10.1.2f Staff member Mr. Arjun Kadam is university level Avishkar event coordinator

Administrative Setup

The key components of the organizational structure of the Institute are Secretary, Principal, HODs, Teaching, and Nonteaching staff. Various committees with well-defined functions give academic and administrative leadership to the Institution. Organizational Structure of institute depicted in figure below.



Fig 10.1.2g Organizational Structure

Duties & Responsibilities:

Each employee in the institute has some responsibilities and the employeeshould carry all the tasks assigned to him with the full of his ability.

- 1) **Principal:** As the head of the institute, the Principal should have the vision and leadership ability to keep a college developing.
- ✓ To monitor and conduct academic activities of the institute under the guidance of the management and assistance of the Deans and Head of Departments.
- ✓ To promote industry institution interaction and research & development activity.
- ✓ To conduct the periodical meetings of the faculties for the effective administration of the college.
- ✓ To make the employee and students aware of the rules, policies, and procedures laid downby the college and see to it that they are enforced.
- \checkmark To sanction the leave of the staff as per the norms.
- ✓ To communicate with University, Directorate of Technical Education, All India Council forTechnical Education and University Grants Commission for compliance.
- ✓ Organize meetings of Governing Body and Local Managing Committees and maintain minutes of the meeting.
- \checkmark To execute any other work assigned by the management.
- ✓ To monitor and promote technical and non-technical, co-curricular and extracurricular activities like seminars, workshops, cultural and sports events with the assistance of Dean & HOD.

2) Dean - Academics

- ✓ Responsible for preparing a timetable and Smooth execution of it in all departments with the help of Head of the Departments.
- ✓ To prepare the Institute academic calendar
- \checkmark To maintain academic records as per the requirement under rules.
- ✓ To execute all Internal Examinations and declare their results.
- ✓ Communicating with parents and students about their academic progress and problems.
- \checkmark To execute any other work assigned by the Principal and management.

3) Dean – R & D

- \checkmark To formulate policy and facilitate the consultancy work in the institution.
- ✓ To encourage Industry Institute Linkages, Collaborative Research programs, and the formation of new incubation centers.
- ✓ To monitor Research projects on a periodical basis and effective utilization of grants of research projects and timely completion of these projects.
- ✓ To apply for intellectual properties generated from research at college and to market these into patents in the industry.
- \checkmark To execute any other work assigned by the Principal and management related to IIPC.

4) Dean-Quality Assurance

- ✓ Development of Quality Culture in the institution and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
- Development and implementation of quality benchmarks/parameters for various academic and administrative activities of the institution.
- ✓ Development of Quality Culture in the institution and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
- ✓ Conducting internal Academic as well as Administrative Audits.
- ✓ Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes.
- ✓ Dissemination of information on various quality parameters of higher education.
- ✓ Organization of inter and intra institutional workshops, seminars on quality related themes.
- ✓ Documentation of the various programmes /activities leading to quality improvement and maintenance of institutional database for the purpose of maintaining /enhancing the institutional quality.
- ✓ Preparation of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC.

5) Dean Training and Placement

- ✓ To maintain complete information regarding students appearing for placement activities.
- ✓ To conduct placement activities smoothly.
- ✓ To decide and arrange for personal development programs for student.
- ✓ To update and maintain the contact details of companies interested in recruitment activities.

- ✓ To send an invitation to industry and company for campus recruitment, to notify the studentsabout the events and take necessary action.
- \checkmark To take feedback from the industry about the students recruited.

6) Dean Student Activities

- ✓ Responsible for maintaining the student's discipline within college premises with respect to attendance, college uniform, smoke and the alcohol-free environment with the help of Head of Departments.
- ✓ To assist students for effective organization of extracurricular & co-curricular activities in and outside the campus.
- \checkmark To keep watch on hostel and campus for ragging free environment.
- \checkmark To counsel students for any issue that may arise.
- ✓ To assist the Principal in all students related issues.
- ✓ To execute any other work assigned by principal & management.

7) Controller Of Examination (COE)

- \checkmark All matters concerned with the conduction of examination.
- ✓ Preparation and display of final result notification (s) and sending the grade reports to students.
- ✓ Arrangement for the timely issuance/provision of the examination material, instructing the supervisory staff and holding their meetings as and when required.
- ✓ Bringing into the notice of the Principal all cases of infringement of rules of examinations with full report for disposal.
- ✓ Maintaining over all examinations record of the students.
- ✓ Ensuring and maintaining strict secrecy of all information regarding the examinations.
- ✓ To circulate &distribute magazines, literature, etc. to faculties & management and maintain records of the same.
- \checkmark To execute any other work given by management.

8) Registrar

- \checkmark To provide secretarial support to the Executive Director
- ✓ To handle day-to-day office activity smoothly.
- ✓ To execute the admission process and University Examination process of students.
- \checkmark To handle student grievances and taking remedial action.
- \checkmark To execute any other work given by management.

9) Librarian

- ✓ To implement all library rules as defined by the management.
- ✓ Responsible for the overall functioning of the library.
- ✓ Responsible for the procurement of recommended books, daily newspapers, journals, magazines, videos, CDs, audio cassettes, e-books, online resources, etc. and renewal of books/magazines.
- ✓ To display all technical articles, literature and new arrivals.
- ✓ To circulate & distribute magazines, literature, etc. to faculties & management and maintainrecords of the same.
- \checkmark To execute any other work given by management.

10) Head of the Department

- ✓ To monitor and conduct academic activities of the department under the guidance of the Dean Academics.
- \checkmark To take department and faculty feedback and accordingly take the remedial actions.
- ✓ To plan and take the necessary actions for the improvement of department results and academic performance.
- ✓ To coordinate term work assessment and conduction of practical /oral examinations as laid down by DBATU
- \checkmark To maintain discipline and enforce rules as laid down by the institute, in the department.
- ✓ To monitor the day-to-day activities of the department.
- ✓ To plan for the semester and academic year, in terms of activities, guest lectures, workshops,etc. for the benefit of the student and faculty.
- ✓ To conduct regular meetings with teaching and non-teaching staff as well as the Class Representatives along with Class Teacher to sort out any issue and queries related to academics.

- \checkmark To execute any other work assigned by the Principal and management.
- ✓ To prepare the department requirements and budget needed.
- \checkmark To oversee the purchase and deployment of any resource allotted for the department.

11) Computer Centre

- ✓ Maintain Computer Centre
- ✓ To administer and maintain servers, firewalls, routers, manageable switches UPS and batteries.
- \checkmark To initiate the purchasing of equipment.
- ✓ To provide support for various software servers.
- \checkmark To ensure continuous internet during assigned hours.
- ✓ To give support to the On-line exam, Seminar, Workshop, technical training program.
- \checkmark To update and maintain the institute website with institute data

12) Central Workshop

- ✓ Arranges all the machines/equipment required in the workshops.
- ✓ Responsible for repair and maintenance of all the machines and equipment in the workshops.
- ✓ Makes schedule for different groups of students for practice in their respective workshops.
- ✓ Responsible for maintenance of laboratories.
- ✓ Reports to Principal/HOD regarding damage/breakdown of machines/equipment.
- ✓ Responsible for safety measures of teaching / non-teaching staff.

13) Estate office

- Must be available in the campus and be on duty for 6 days/week; discharges the duties under directions of the principal.
- ✓ Supervises, executes the works in all civil, electrical, gardening and cleaning.
- \checkmark Acts as the office in-charge of the security/sanitation of the institute.
- ✓ Inspects the buildings structures, roads, etc. under his charge as often as necessary and examine their condition from safety and maintenance point of view and take/suggest necessary action.
- ✓ Prepares progress reports on on-going work and report the same to the authorities of the institute on a monthly basis.
- ✓ Ensures the successful achievement of the targets fixed for completion of each project/works

with due consideration for speed and economy of scale and/or proper maintenance of building structures, water supply channels and regular maintenance of all the electric generators and ensuring proper use of the same.

✓ Executes any other works assigned from time to time.

14) Accountant

- ✓ Keeps account of financial transactions such as admission fees, examination fees, hostel fees etc.
- ✓ Keeps account of all the financial transactions related to repair, maintenance, purchase etc.
- ✓ Disburses salaries for the employees of the College.
- ✓ Prepares the annual account, get if audited.
- \checkmark Deals with banks and other financial institutions regarding loans etc.
- ✓ Will be responsible for filling of annual returns.

15) Office Superintendent

- ✓ To receive any letter / notice and to put his/her initials and date of receipt and to record and pass on therein instructions wherever necessary for the guidance of staff working under him.
- ✓ To exercise check and follow up of letters received from the Government of India/Chancellor/State Government/U.G.C./ AICTE/ Office of the Director of Education/Universities etc.
- ✓ To supervise the work of subordinate staff in the form of periodic check of the work carried out by the staff.
- ✓ To inspect the racks and tables of assistants/and/or senior assistants working under him and satisfy himself that no papers of files have been overlooked and that there are no odd receipts or bills lying indisposed off.
- ✓ To attend to such other work as may be given to him with the approval of the Principal/Registrar/Head of the Department.
- ✓ To supply other relevant facts and figures and also papers pertaining to previous decisions or policy.
- \checkmark Any other work assigned from time to time, with the approval of the Principal/Registrar.

16) Teaching Faculty

- ✓ All the Faculty Members are expected to follow the rules and regulations of the Institution as prevalent from time to time.
- ✓ The work load of all the staff shall be fixed by the Head of Department. The work load of the teacher should not be less than average 40 hours a week, of which teaching-contact hours shall be at least as per AICTE norms.
- ✓ Faculty Members are expected to update their knowledge by attending seminars/workshops/conference, with due permission from the HOD/Principal.
- ✓ Faculty Members should attempt to publish text books, research papers in reputed International / National Journals/Conferences.
- ✓ The Faculty Member must prepare him/ herself academically to meet all the challenges and requirements in the methodology of teaching so that the input may be useful for the student community at large. Every Faculty Member is expected to extend his/her beneficial influence in building up the personality of students and he/she should associate himself/herself actively with such extra-curricular activities which he / she is interested in or assigned to him/her from time to time.

17) Lab Assistant

- ✓ To maintain the Dead Stock Register and Consumable Registers.
- ✓ To find out the requirements for consumables for the laboratory and procure the same, before the start of every term.
- ✓ To plan for the procurement of equipment for the next term well in advance as per guidelines from university, by contacting teachers who are teaching or have taught similar subjects in our college or subject experts nominated by university, by considering syllabus revision etc.
- ✓ Requisition of consumables shall be submitted to the HOD, who in turn shall verify the same and forward to the Principal for necessary action.
- To see that the infrastructure facilities in the labs are adequate so that each batch has ample opportunity to complete practical satisfactorily.
- \checkmark To organize the laboratory for oral and practical examinations.
- ✓ To take corrective action for any breakage / loss etc.
- ✓ To ensure the safety and cleanliness of the laboratory and switch off all equipments after use.
- ✓ The Lab Assistants are required to assist the respective laboratory in-Charge for smooth

functioning of the laboratories.

- ✓ All the Lab Assistants are required to report matters like maintenance/repairing requirement, theft, damage etc. within the respective labs, to the HOD through faculty in charge of lab.
- ✓ Lab Assistants in coordination with Lab In-charge should display (i) List of Equipment's/software with cost (ii) List of Experiments (iii) Lab Time Table (iv) Names of Lab In-charge / Lab Assistants etc. on the laboratory Notice board.
- ✓ All laboratory in charges are responsible for maintaining the laboratory utilization record Laboratory theft/damage prevention

18) Lab Attendant

- \checkmark To open all the classrooms, laboratories, and staff rooms before starting time of classes.
- ✓ To close and lock all the classrooms, laboratories, and staff rooms after working hours with due checking of lights, fans, equipment's.
- \checkmark To clean classrooms, laboratories, and staff rooms on every day.
- ✓ To clean benches in classroom and laboratory, equipment's in laboratory and staff tables.
- ✓ To clean a particular classroom, laboratory, or staff room if required on urgent basis.
- ✓ To assist the laboratory assistant while performing practical if required.
- \checkmark To shift the equipment in/out of the laboratory whenever required.
- ✓ To circulate required documents to staff for signatures.
- ✓ To get the documents photocopies as required by HOD office/staff.
- ✓ To make arrangements of tables, chairs during the examination/functions in the department.
- ✓ To perform examination duties during internal as well DBATU examinations.
- ✓ To attend HOD office and perform duties assigned by HOD and staff from time to time.

B. Service rules

As institute is affiliated Dr. Babasaheb Ambedkar Technological University. In pipeline with the service rules framed by university, institute have prepared **PROCESS HANDBOOK** which contains service rules, policies, and procedures for the institution are in place and documented. Since 2019, the **PROCESS HANDBOOK** is made available in the departments and is available on the institute website. They are also made known to all newly recruited staff members through a HOD Meeting/induction program. Rules and regulations are modified as and when needed. Important information is regularly informed through circulars and during staff meetings

Procedures Recruitment

Recruitment

- Recruitment is done before commencement of Academic Year, and payment will be made as per AICTE scale.
- Recommendations of the selection committee comprising of Chairman, Administrator, Principal/Designated Authority, and respective HOD will be placed before the AGCE Governing council, along with details of sanctioned posts, for final approval.
- At the time of joining all appointees should submit original certificate, equivalence certificate.
- Every member of the staff shall agree to abide by all the conditions laid down by the Institution.

Promotional policies

- All promotions shall be considered on the basis of merit- cum –seniority basis or as decided by the management from time to time
- **2.** The Chairman shall appoint a committee for promotion, in which he shall be the Chairman, with administrator, principal and experts in the respective area.
- **3.** The Committee shall consider promotion of teaching staff to the next higher position on the basis of the guidelines given in this chapter and as per AICTE norms, subject to the condition that there has not been any disciplinary action taken against such candidate for promotion, for any misconduct he/she has committed during the service.
- 4. The staff shall be considered for promotion to the next higher level position, subject however, he/she had completed the three years of service after probation in the present position and should have obtained AICTE prescribed qualification.
- **5.** Special preference to the faculty who is undergoing PhD and completing the course work and comprehensive viva voce for PhD and on publication of 5 International Journal papers, being in the authors area of specialization for the promotion to the post of Associate professor with Minimum of 5 yrs experience in teaching/research/ industry or (Equivalence for PhD is based on publication of 5 International Journal papers, being in the authors" area of specialization) and subjected to condition that, they fulfill the AICTE requirement within four years from the date of promotion.

- 6. Minimum of 10 years teaching/research/ Industrial experience of which at least 5 years should be at the level of Associate Professor and possessing a Ph.D. degree in the relevant discipline or Minimum of 13 years' experience in teaching and/or Research and/or Industry with PhD shall be eligible to be appointed and designated as Professor, subject to other conditions of academic performance as laid down by the AICTE.
- 7. No teacher other than those with a Ph.D. shall be promoted, appointed or designated as Professor
- **8.** A teacher who wishes to be considered for promotion under Career Advancement Scheme (CAS) may submit his application with necessary documents to the principal office.
- **9.** The following Educational background information is required in the CV for reappointment and promotion of candidates:
- Academic and other relevant employment history
- Awards and appreciation if any
- Research and/or creative works, publications journal, conference proceeding, textbook publications etc.
- Teaching accomplishments: List classes taught with results, List any textbooks, study guides, manuals, workbooks, or electronic media, produced for student or class use, mentor list.
- 10. Those who are promoted shall be fitted in the Scale of Pay applicable to that category.
- 11.All decisions on promotions shall be taken up from the month of April / October every year
- **12.**All cases of promotions satisfying the above norms and those prescribed by the AICTE will be considered, subject to the requirement of the department and discretion of the Management.

C. Minutes of the meetings and action-taken reports

- Governing Body Minutes of Meeting and action taken 2022-23: http://103.159.152.195/moodle/mod/folder/view.php?id=10184
- IQAC Minutes of Meeting and action taken 2022-23: http://103.159.152.195/moodle/mod/folder/view.php?id=10185
- College Development Committee and action taken 2022-23: http://103.159.152.195/moodle/mod/folder/view.php?id=10187

10.1.3 Decentralization in working and grievance redressal mechanism

- (10)
- A. List the names of the faculty members who have been delegated powers for taking administrative decisions (1)
- B. Specify the mechanism and composition of grievance redressal cell (2)
- C. Action taken report as per 'B' above (7)

A. Decentralization in working:

Arvind Gavali College of Engineering, Satara follows decentralized mechanism of working. Principal is the academic head of the institute; many of the powers are delegated to the core committees for effective functioning that comprises of Deans and Head of Departments.

Table 10.1.3.a Responsibilities			
Sr. No	Name	Responsibility	
1	Mr. Suhas Patil	Dean Academics	
2	Dr. Hingmire Vishal	Dean IQAC	
3	Dr. Mirajkar Gayatri	Dean R& D	
4	Dr. Avinash Khadtare	HoD Dept of Mechanical Engineering	
5	Dr. Bamane Prashant	HoD Dept of Civil Engineering	
	Ramesh		
6	Dr. Nayak Meghay Banoth	HoD Dept of Electrical Engineering	
7	Dr. Hingmire Vishal	HoD Dept of Electronics & Telecommunication	
		Engineering	
8	Dr. Varsha Bhosale	HoD Dept of Computer Science &	
		Engineering	
9	Mr. Tushar Shende	Training & Placement	
10	Mrs. Yewale Vaishali	Librarian	
11	Mr. Kamble Ankur	Director of Physical Education	
		Coordinator NSS	
12	Dr. Nayak Meghay Banoth	Coordinator Alumni Association	
13	Mr. Kanase Nitin	Registrar	

Involvement of each and everyone in the decision making at their respective levels is ensured through decentralization and delegation of powers. Hence there are various institutional

committees consisting of faculty and staff members. Transparency associated therein also forms an important feature of the work culture.

Students have active representation on various academic and administrative bodies and committees of the Institute.

Students are given exposure to involve themselves in administrative, co-curricular and extracurricular activities as members of the committees. They actively participate in committee meetings. The following is the list of Committees having student representation and engagement.

Institute Level Committees:

- 1. Academic Monitoring
- 2. IQAC
- 3. Examination Committee
- 4. University/AICTE/DTE Committee
- 5. Promotional Activity Committee
- 6. Training & Placement Committee
- 7. Alumni Committee
- 8. R & D and IPR
- 9. Infra administration & Maintenance
- 10. ICT Committee
- 11. Anti ragging Committee
- 12. Reservation Committee
- 13. Internal complaints Committee
- 14. Extracurricular Activities Committee
- 15. Grievance & Redressal

16. Library

1. Academic Monitoring

In-line with DBATU academic calendar, Institute prepared its academic calendar and also respective departments prepared its calendar. Based on the Institute's academic calendar, every department carried out their work load distribution based on their domain of expertise and prepared the respective Time table and got it approved from AMC and the Head of Institute. As per the University guidelines lectures and practical were commenced. Internal academic monitoring was carried out and necessary action taken.

Guardian faculty mentoring system is implemented in the Institute wherein 15 to 20 students are assigned to a faculty member who acts as their mentor for the entire program. Mentor
regularly interacts with the students and monitors their academic performance and attendance. Students are counselled by the mentors, class coordinator, faculty and HOD for improving their academic performance and attendance. Mentors and Class Advisors counsel the students regarding their performance and schedule additional lectures/practical. The students are given guidance for academic, career, and also on personal issues. The mentors discuss with each and every student on an individual basis and support them in all the possible ways to improve their academic performance. The mentors always keep a check on the attendance of the student, the marks/grades obtained in the internal and external examinations.

	Table 10.1.3.b Academic Monitoring committee members				
Sr. No	Names of members	Designation	Department		
1	Dr. Pharande Vilas Arjun	Chairman	Principal, Arvind Gavali College of Engineering Satara		
2	Mr. Ghadage Suraj	Coordinator	Assistant Professor, Mechanical Engineering		
3	Dr. Nayak Meghya Banoth	Coordinator	Assistant Professor, Electrical Engineering		
4	Mrs. Kasture Ashwini	Coordinator	HOD, Core Science Engineering		
5	Mr. Somesha N.S.R	Member	Assistant Professor, Electrical Engineering		
6	Mrs. Ghate shital	Member	Assistant Professor, Civil Engineering		
7	Mr. Naik Somesha	Member	Assistant Professor, Electrical Engineering		
8	Ms. Mulla Samina	Member	Assistant Professor, Computer Science & Engineering		
9	Ms. Nalawade Sanskruti	Member	Assistant Professor, E&TC Engineering		

2. IQAC

The IQAC Committee includes all stakeholders of the Institute, i.e. students, alumni, all department and Section Heads, including the Library, Sports, Students Hostel, Examination & Evaluation, Co-curricular and Extra-curricular activity members, Management, Local community and Industry experts.

	Table 10.1.3.c IQAC committee members				
Sr. No.	Name	Designation	Designation Organization		
1	Dr. Vilas Pharande	Chairman	Principal, Arvind Gavali College of Engineering Satara		
2	Mr. Vishal Hingmire	Coordinator	Assistant Professor, E& TC Engineering		
3	Mr. Nitin Kanse	Member	Registrar, AGCE, Satara		
4	Mr. Chetan Nalawade	Member	MD, Shuddha Milk and Milk Products, Satara		
5	Mr. Samadhan Jadhav	Member	MD, Satara Engineering Work, Satara		
6	Mrs. Shakuntala Pawar	Member	HR Head, Mutha Foundry, Satara		
7	Mr. Omkar Waikar	Member	CEO, Supreme Silicones & Trinity Enterprises, Pune		
8	Mr. Abhay Khanaure	Member	MD, Meretech, Pune		
9	Mr. Sushant Gaikwad	Member	Social worker & Coordinator at Mhada, Pani Foundation		
10	Mr. Rohit Bhole	Member	MD, 3 Star IT Solution, Satara		
11	Mr. Abhay Gujar	Member	Assistant Professor, AGCE, Satara		
12	Mr. Suhas Patil	Member	Assistant Professor, AGCE, Satara		
13	Mr. Somesh N.S.R	Member	Assistant Professor, AGCE, Satara		
14	Ms. Ashwini Kasture	Member	Assistant Professor, AGCE, Satara		
15	Ms. Shital Ghate	Member	Assistant Professor, AGCE, Satara		
16	Mrs. Rajani Mandhare	Member	Assistant Professor, AGCE, Satara		

2. Examination Committee

The Institute has a college level Exam committee. This committee works under the supervision of Head of the Institute. The Institute exam committee responsible for the preparation of Timetable, setting of question papers, evaluating the answer sheets, preparing the results and declaration of the same. The evaluated answer sheets are shown to the students for any grievances. The grievances of the students are considered and looked into. The main reforms initiated by the Exam Cell Committee are the timely declaration of results and moderation of the question papers. For continuous evaluation process, internal tests, assignments, quiz, presentations, lab work, seminars etc are taken into consideration. Term work marks are given to the student depending on the performance in the internal assessment. The rubrics for each practical and tutorial are based on the parameter which takes into consideration: the performance, lab ethics, self-learning initiative, conceptual understanding, punctuality and attendance. And also the Institute, Controller of Examination conduct the end semester examination in line with the time table received from University.

	Table 10.1.3.d Examination committee members				
Sr. No.	Names of members	Designation	Department		
1	Dr. Pharande Vilas Arjun	Chairman	Principal		
2	Mr. Kadam Arjun	Coordinator	Assistant Professor, Mechanical Engineering		
3	Mrs. Mandhare Rajani	Coordinator	Assistant Professor, CS & Engineering		
4	Mr.Nikam Vikas	Member	Assistant Professor, Civil Engineering		
5	Ms. Mali Ashlesha	Member	Assistant Professor, Electrical Engineering		
6	Mr. Kadam Vijay	Member	Assistant Professor, E&TC Engineering		
7	Ms.Pooja Bhosale	Member	Assistant Professor, Core Science Engineering		

4. University/AICTE/DTE

This committee ensures University affiliation, Extension Of Approval (EOA) from AICTE, facilitation centre for centralised admission process from DTE.

	Table 10.1.3.e University/AICTE/DTE committee members				
Sr.No	Names of members	Designation	Department		
1	Dr. Pharande Vilas Arjun	Chairman	Principal		
2	Mrs. Mandhare Rajani	Coordinator	Assistant Professor, CS & Engineering		
3	Mr. Kanase Nitin	Coordinator	Registrar, Office		
4	Mrs. Alatkar Manisha	Member	Assistant Professor, Mechanical Engineering		
5	Dr. Bamane Prashant	Member	Assistant Professor, Civil Engineering		
6	Dr. Nayak Meghya Banoth	Member	Assistant Professor, Electrical Engineering		
7	Ms. Mandhare Rajani	Member	Assistant Professor, CS & Engineering		
8	Mr. Hingmire Vishal	Member	Assistant Professor, E&TC Engineering		
9	Ms. Kuthe Priya	Member	Assistant Professor, Core Science Engineering		

5. Promotional Activity Committee

Parents and students are not aware of the various educational opportunities available in rural areas. We at AGCE, have a well developed mechanism where faculty members make it a point to meet the parents, students and also various schools and colleges to make them aware of the educational facilities we impart and also of the admission process. Due to this, all the people are made aware not only of the presence of our Institute but also of the different career opportunities. As per the DTE process School connect program is conducted by faculty members visiting different schools and students. Faculty members give information about various scholarships, transport facilities and also the accommodation facility made available to the students including girl's hostel.

	Table 10.1.3.f Promotional Activity Committee members				
Sr.No	Names of members	Designation	Department		
1	Dr. Pharande Vilas Arjun	Chairman	Principal		
2	Mr. Hingmire Vishal	Coordinator	Assistant Professor, E&TC Engineering		
3	Mr. Shinde Mahesh	Coordinator	Clerk, Office		
4	Mr. Kamble Ankur	Member	Assistant Professor, Mechanical Engineering		
5	Dr. Bamane Prashant	Member	Assistant Professor, Civil Engineering		
6	Dr. Nayak Meghya Banoth	Member	Assistant Professor, Electrical Engineering		
7	Ms. Waghmare Shital	Member	Assistant Professor, CS & Engineering		
9	Mrs. Kasture Ashwini	Member	Assistant Professor, Core Science Engineering		

6. Training and Placement Committee

The Institute Provides Skill Improvement Program for Placements. That gives personal and career counselling to achieve desirable improvement in students. One of the major objectives is to help students to obtain internships and placement in companies across various industrial sectors. The students are encouraged to present technical papers at seminars in other Institutes with a view to improving their research and presentation skills. Faculty members from each department are co-opted as members of the Placement Cell.

Γ

	Table 10.1.3.g Training & Placement committee members					
Sr.No	Names of members	Designation	Department			
1	Dr. Pharande Vilas Arjun	Chairman	Principal			
2	Mr. Pathak Pranav	Coordinator	Assistant Professor, CS & Engineering			
3	Mr. Kadam Arjun	Member	Assistant Professor, Mechanical Engineering			
4	Mr. Sapkal Rajendra	Member	Assistant Professor, Civil Engineering			
5	Mr. Chavan Santosh	Member	Assistant Professor, E&TC Engineering			
6	Ms. Kuthe Priya	Member	Assistant Professor, Core Science Engineering			

7. Alumni Committee

Alumni Cell, the single point of contact between Alumni and Institute, offers our alumni a host of services that enables them keep in touch with their batch mates and also of the different activities conducted in the Institute.

	Table 10.1.3.h Alumni Committee members					
Sr.No	Names of members	Designation	Department			
1	Dr. Pharande Vilas Arjun	Chairman	Principal			
2	Mr. Chavan Santosh.	Coordinator	Assistant Professor, E&TC Engineering			
3	Dr. Nayak Meghya Banoth	Coordinator	Assistant Professor, Electrical Engineering			

4	Mr. Kamble Ravi	Member	Assistant Professor,
			Mechanical Engineering,
5	Mr. Sapkal Rajendra	Member	Assistant Professor, Civil Engineering
6	Mrs. Kadam Anuradha	Member	Assistant Professor, CS & Engineering
7	Ms. Kuthe Priya	Member	Assistant Professor, Core Science Engineering

8. R & D and IPR

Research and Development cell designs annual research activity plan for all the departments, establish liaison with near and far industries and identify the technological challenges being faced by them. These problems of the industry are taken up as projects for finding solutions through R&D which are assigned to both faculty members and students. To initiate and promote MoUs with Industries for consultancy, collaborative research, sponsored projects, Industry and Institute interactions etc. To motivate students for presenting papers in National and International conferences, Demonstrate projects in various competitions.

Table 10.1.3.h R & D and IPR committee members				
Sr.No	Names of members	Designation	Department	
1	Dr. Pharande Vilas Arjun	Chairman	Principal	
2	Dr. Mirajkar Gayatri	Coordinator	Assistant Professor, E&TC Engineering	
3	Dr. Salman Waremani	Member	Assistant Professor, Mechanical Engineering	
4	Mr.Shinde Suraj	Member	Assistant Professor, Civil Engineering	
5	Mr. Gujar Vijay	Member	Assistant Professor, CS & Engineering	
6	Mr. Chavan Santosh	Member	Assistant Professor, E&TC Engineering	

7	Ms. Bhilare Nikita	Member	Assistant Professor,	Core
			Science Engineering	

9. Infra administration & Maintenance

The Committee a setup to look and take care of the maintenance of the overall infrastructure of the Institute. The Institute has well equipped infrastructural facilities for the efficient conduction various examinations.

	Table 10.1.3.i Infra administration & Maintenance committee members				
Sr.No	Names of members	Designation	Department		
1	Dr. Pharande Vilas Arjun	Chairman	Principal		
2	Ms. Mulla Samina	Coordinator	Assistant Professor, CS & Engineering		
3	Mr. Nikam Vikas	Coordinator	Assistant Professor, Civil Engineering		
4	Mr. Naik Somesha	Coordinator	Assistant Professor, Electrical Engineering		
5	Mrs. Alatkar Manisha	Member	Assistant Professor, Mechanical Engineering		
6	Dr. Nayak Meghay Banoth	Member	Assistant Professor, Electrical Engineering		
7	Mrs. Kandarkar Sucharita	Member	Assistant Professor, E&TC Engineering		
8	Ms.Shinde Swapnali	Member	Assistant Professor, Core Science Engineering		

10. ICT Committee

ICT Committee is actively involved in the proper maintenance of the various digital working tools like an ICT panel which includes 3-Smart boards, 6-Overhead projectors, well equipped computer labs. For any maintenance the committee looks into the same and the problem is rectified.

The committee also encourages maximum students participation in various online programs available under NPTEL/MOOCS, for their overall development.

	Table 10.1.3.j ICT committee members				
Sr.No	Names of members	Designation	Department		
1	Dr. Pharande Vilas Arjun	Chairman	Principal		
2	Ms. Mulla Samina	Coordinator	Assistant Professor, CS & Engineering		
3	Mr. Nikam Vikas	Coordinator	Assistant Professor, Civil Engineering		
4	Mr. Naik Somesha	Coordinator	Assistant Professor, Electrical Engineering		
5	Mrs. Alatkar Manisha	Member	Assistant Professor, Mechanical Engineering		
6	Dr. Nayak Meghay Banoth	Member	Assistant Professor, Electrical Engineering		
7	Mrs. Kandarkar Sucharita	Member	Assistant Professor, E&TC Engineering		
8	Ms.Shinde Swapnali	Member	Assistant Professor, Core Science Engineering		

11. Anti ragging Committee

These committees ensure that at least one faculty member will be present at any particular time at all the locations to curb ragging. Instructions are given to student volunteers to take precautionary measures to avoid ragging at locations like Canteen, bus stops and canvass about anti-ragging through the use of Flexes, Posters and Boards in the Institute premises and surrounding areas where there is a chance of ragging. Fresher's and parents are guided and counselled against ragging and affidavits duly signed the students and parents, against ragging are taken at the time of admission.

Table 10.1.3.k Anti ragging committee members			
Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal

2	Mr. Jagtap Dayanand	Coordinator	HOD E&TC Engineering
3	Miss. Bhosale Raupali H	Member	Social Worker
4	Adv. Dixit D.C.	Member	Advocate
5	Mr. Barge Abhijeet	Member	Local Media
6	Mr. Patil Suhas	Member	Assistant Professor Mechanical Engineering
7	Mr. Nayak Banoth Meghya	Member	HOD Electrical Engineering
8	Mrs.Sawant Ashwini	Member	CSE Department Engineering
9	Dr. Bamane Prashant	Member	Assistant Professor, Civil Engineering
10	Mr. Shinde Chandrashekhar	Member	Office Superintendent
11	Mr. Kadam Vijay	Member	Assistant Professor E & TC Engineering
12	Mr. Khairmode Omkar	Member	Assistant Professor Mechanical Engineering
13	Mr. Bhoite Aryan	Member	Student E&TC Engineering
14	Mr. Roman Aniket	Member	Student Civil Engineering
15	Mr. Chavan Aditya	Member	Student Electrical Engineering
16	Mr. Shinde Suyog	Member	Student Mechanical Engineering
17	Miss. Gawade Priti	Member	Student CSE Engineering
18	Ms.Kadam Dhanashree	Member	Student Core Science & Engineering

12. Reservation Committee

Reservation committee monitors awarding of scholarships to students belonging to various categories viz. Open. OBC, NT, SC and also guide the students of the various facilities available to them from State and Central government for their maximum benefit.

Table 10.1.3.1 Reservation committee members			
Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Dr. Thombare Vijay	Coordinator	HOD Civil Engineering
3	Mr. Jagtap Dayanand	Coordinator	Assistant Professor, E&TC Engineering
4	Mrs. Alatkar Manisha	Coordinator	Assistant Professor, Mechanical Engineering
5	Mr. Patil Suhas	Member	Assistant Professor, Mechanical Engineering
6	Mr. Khairmode Omkar	Member	Assistant Professor, Mechanical Engineering
7	Mrs. Ghate Shital	Member	Assistant Professor, Civil Engineering
8	Dr. Nayak Meghay Banoth	Member	Assistant Professor, Electrical Engineering
9	Ms. Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
10	Mrs. Sawant Ashwini	Member	Assistant Professor, CS & Engineering
11	Ms. Waghmare Shital	Member	Assistant Professor, CS & Engineering
12	Ms. Sawashe Ketaki	Member	Assistant Professor, E&TC Engineering

13	Mrs. Bhosale Rohini	Member	Assistant Professor, Core Science Engineering
----	---------------------	--------	--

13. Internal complaints Committee

Women's Grievance Cell is guided by Principles of natural justice while redressing the grievances. The cell will consider grievances concerned with sexual harassment and other acts related to gender-based discrimination.

	Table 10.1.3 Internal Complaints Committee (ICC) members				
Sr. No.	Names of committee members	Designation	Department		
1	Dr. Pharande Vilas Arjun	Chairman	Principal		
2	Dr. Mirajkar Gayatri	Coordinator	Professor, E&TC Engineering		
3	Dr. Thombare Vijay	Member	Professor, Civil Engineering		
4	Mrs. Alatkar Manisha	Member	Assistant Professor, Mechanical Engineering		
5	Mr. Patil Suhas	Member	Assistant Professor, Mechanical Engineering		
6	Mr. Khairmode Omkar	Member	Assistant Professor, Mechanical Engineering		
7	Mrs. Ghate Shital	Member	Assistant Professor, Civil Engineering		
8	Miss. Mali Ashlesha	Member	Assistant Professor, Electrical Engineering		
9	Mrs. Sawant Ashwini	Member	Assistant Professor ,Computer Science & Engineering		
10	Mrs. Pawar Snehal	Member	Assistant Professor, Core Science Engineering		
11	Mrs. Ghadge Rupali	Member	Clerk		
12	Mrs. Shinde Jayashri	Member	Assistant Librarian		

13	Miss. Lalge Prajkta	Member	Student, Mechanical Engineering
14	Miss. Jadhav Akanksha	Member	Student, Electrical Engineering
15	Miss. Yadav Bhagyashri	Member	Student, CSE Engineering
16	Miss. Pawar Akanksha	Member	Student, E&TC Engineering
17	Mr. Shelke Siddheshwar	Member	Student, Civil Engineering
18	Miss. Chavan Nikita	Member	Student, First Year Engineering
19	Miss. Jadhav Vrunda	Member	Student, Polytechnic Engineering

14. Extracurricular Activities Committee:

Students have strong representations in all cultural and sports committees. They help in organization and management of different events. Major events include annual Sports Competition and Cultural event. Organize intra-college competitions at the Institute level. Assist and encourage the students to participate actively in organizing and conducting various indoor, outdoor sporting games. Maintain records of the sporting events attended by students held in the Institute. Submit annual report of the sports/ events conducted, budget allocations and expenditure incurred during the year. Encouraging students to participate in the intra or inter-collegiate events. Students are part of organizing committees all the engineering activities at departmental/Institute level. Some of these activities include conferences, coding, project contests, technical events, quiz competitions, student club activities etc.

Table 10.1.3.m Extracurricular Activities Committee members			
Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mr. Ghadge Nikhil	Coordinator	Assistant Professor, Mechanical Engineering
3	Mr. Kamble Ankur	Coordinator	Assistant Professor, Mechanical Engineering
4	Ms. Waghmare Shital	Coordinator	Assistant Professor, CS & Engineering

5	Mr. Salunkhe Rakesh	Member	Assistant Professor, Civil Engineering
6	Ms. Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
7	Ms. Nalawade Sanskriti.	Member	Assistant Professor, E&TC Engineering
8	Ms. Bhosale Pooja	Member	Assistant Professor, Core Science Engineering,

15. Grievances Redressal Committee

A grievance cell is established in this Institute to resolve any types of disputes among the students. Grievance boxes are made available in the Institute. Stakeholders can drop the grievances mentioned on the paper in the box provided. Resolve grievances which develop in Institute premises, maintaining confidentiality, impartiality, transparency. Establish grievance free Institute environment. To resolve the disputes and any other issues arising amongst the students. To create a professional environment for sustainable development. Encourage the students to show responsible approach. To enhance effective communication to state the grievance verbally or through the use of grievance box. Encourage the students to practice courteous communication behaviour which will be useful in their entire life.

Table 10.1.3. Grievance Redressal Cell committee members				
Sr.No	Names of members	Designation	Department	
1	Dr. Pharande Vilas Arjun	Chairman	Principal	
2	Mr Suhas Patil	Coordinator	Assistant Professor, Mechanical Engineering	
3	Mr. Jagtap Dayanand Bajirao	Coordinator	HOD E&TC Engineering	
4	Mrs. Alatkar Manisha Nilkanth	Coordinator	Assistant Professor, Mechanical Engineering	
5	Mr. Kanse Nitin	Member	Registrar	

6	Mr. Khairmode Omkar	Member	Assistant Professor, Mechanical Engineering
7	Ms. Waghmare Shital	Member	Assistant Professor, Computer Science Engineering
8	Ms.Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
9	Mrs. Mandhare Rajani	Member	Assistant Professor, Computer Science Engineering
10	Miss. Pawar Snehal	Member	Assistant Professor, Core Science & Engineering
11	Mr. Gaikawd Sushant	Member	Student Civil Engineering
12	Mr. Sawant Prajwal	Member	Student Computer Science & Engineering
13	Mr. Karavale Chetan	Member	Student Core Science Engineering
14	Mr. Kadam Rohit	Member	Student Electrical Engineering
15	Miss. Pawar Akaksha	Member	Student E&TC Engineering
16	Mr. Masal Dadasaheb	Member	Student Mechanical Engineering

16. Library Committee

Library committee is involved in collecting the requirements of the text books, reference books, journals and ensuring adequate number of copies are made available in the library. Planning and implementing the library automation, procedures, digital library development and usage. Finalizing the list of books, journals, magazines and equipment in the central library as well as departmental libraries and propose budgetary estimates to the administrative department and also conducting verification of annual stock. The Institute library has a vast collection of texts books and general books, International and National journals, online databases to cater to the needs of both UG and PG students. Separate sections for General, Reference books, Journals and Periodicals, Magazines are provided along with free Net browsing (DelNet).

	Table 10.1.3.0 Library Committee members			
Sr.No	Names of members	Designation	Department	
1	Dr. Pharande Vilas Arjun	Chairman	Principal	
2	Mrs. Yewale Vaishali	Coordinator	Librarian, Central Library	
3	Mr. Salunkhe Sushant	Member	Assistant Professor, Mechanical Engineering	
4	Mr. Salunkhe Rakesh	Member	Assistant Professor, Civil Engineering	
5	Mr. Naik Somesha	Member	Assistant Professor, Electrical Engineering	
6	Mr. Gujar Vijay	Member	Assistant Professor, CS & Engineering	
7	Mr. Hingmire Vishal	Member	Assistant Professor, E&TC Engineering	
8	Mrs.More Sonali	Member	Assistant Professor, Core Science Engineering	

B. Grievances Redressal Mechanism

Grievances are taken through following committees. Suggestion boxes are kept for the students Grievances Redressal Committee Internal Complaint Committee

Anti-ragging Committee

Grievance Redressal Mechanism: -

The institute has constituted Grievance Redressal cell (GRC), Internal Complaints Committee (ICC) and Antiragging Committee as per the guidelines by the competent authority. Online Grievance Redressal system is purchased and installed.

1.0 Grievance Redressal cell (GRC): - Dr. Thombare Vijay Ramchandra

Grievance Redressal Cell is formed to provide a safe, fair and harmonious learning and work environment, for handling day-to-day grievances related to students, parents and employees. Grievance Redressal Cell facilitates the resolution of grievances in a fair and impartial manner maintaining necessary confidentiality.

Objectives of Grievance Redressal Cell:

- To ensure a fair, impartial and consistent mechanism for Redressal of varied issues faced by the students, parents and employees. To promote cordial Student-Student relationship, Student-teacher relationship, teacher-teacher relationship.
- To develop a responsive and accountable attitude amongst all to maintain a harmonious environment in the college campus. To ensure that grievances are resolved timely with complete confidentiality

Grievance Redressal Cell committee				
Sr.No	Names of members	Designation	Department	
1	Dr. Pharande Vilas Arjun	Chairman	Principal	
2	Mr Suhas Patil	Coordinator	Assistant Professor, Mechanical Engineering	
3	Mr. Jagtap Dayanand Bajirao	Coordinator	HOD E&TC Engineering	
4	Mrs. Alatkar Manisha Nilkanth	Coordinator	Assistant Professor, Mechanical Engineering	
5	Mr. Kanse Nitin	Member	Registrar	
6	Mr. Patil Suhas Prakash	Member	Assistant Professor, Mechanical Engineering	
7	Mr. Khairmode Omkar	Member	Assistant Professor, Mechanical Engineering	
8	Ms. Waghmare Shital	Member	Assistant Professor, Computer Science Engineering	

Table 10.1.3p Grievance Redressal Cell

9	Ms.Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
11	Mrs. Mandhare Rajani	Member	Assistant Professor, Computer Science Engineering
12	Miss. Pawar Snehal	Member	Assistant Professor, Core Science & Engineering
13	Mr. Gaikawd Sushant	Member	Student Civil Engineering
14	Mr. Sawant Prajwal	Member	Student Computer Science & Engineering
15	Mr. Karavale Chetan	Member	Student Core Science Engineering
16	Mr. Kadam Rohit	Member	Student Electrical Engineering
17	Miss. Pawar Akaksha	Member	Student E&TC Engineering
18	Mr. Masal Dadasaheb	Member	Student Mechanical Engineering

Standard Operating Procedure (SOP):

- Any student or parent or staff member who want to initiate a grievance may in the first instance bring the issue to the notice of the Head of the respective department, who will address the issue and try to resolve.
- If there is no response within the stipulated time from the respective department or grievant is dissatisfied with response/resolution to his/her grievance, then the grievant is free to represent his/her grievance to the College Grievance Redressal Cell in formal manner.
- Scrutiny: Grievance Redressal Cell will make a thorough review of the Redressal process.
- Call for hearing: If the Grievance Redressal Cell is not satisfied with the resolution provided by the respective department /individual or upon the grievant written request, the committee shall fix a date for hearing and intimate the same to the respective department /individual as well as the grievant.
- Investigation: If a resolution is not achieved through hearing, then it will take necessary steps to conduct an investigation of the facts. Grievance Redressal Cell will have the right to interview witnesses, if it is required. On the basis of investigation by Grievance Redressal Cell, report will be submitted to the Head of Institution. The grievance Redressal cell shall use its best efforts to work out resolutions of the issue.

Sample of Grievance Redressal mechanism:



2.0 Internal Complaints Committee (ICC) - Women's Grievance Cell – Sexual Harassment Committee

The institution believes in gender equality & gender justice in all of its practices. Organizational environment is free from discrimination & harassment with a particular focus on sexual harassment. For this Women's Grievance Cell is established in the college. The cell is responsible for looking into any complaints filed by students & staff about woman grievances at the college.

Objectives of ICC:

- To full fill the directives of the Hon. Supreme court of India (Guide lines of Vishakha Judgment) and concerns expressed by the University grand commission about ensuring safe environment for women student & employees. To promote an environment free of sexual harassment & other acts of gender-based discrimination at the institution that ensures gender equality & equal opportunities.
- To prevent sexual harassment and to promote the general well-being of female
- Students and employees.

Internal Complaints Committee:

Women's Grievance Cell is guided by Principles of natural justice while redressing the grievances. The cell will consider grievances concerned with sexual harassment and other acts related to gender-based discrimination.

	Internal Complaints Co	mmittee (ICC) / W	omen's Grievance Cell
Sr. No.	Names of committee members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Dr. Mirajkar Gayatri	Coordinator	Professor, E&TC Engineering
3	Dr. Thombare Vijay	Member	Professor, Civil Engineering
4	Mrs. Alatkar Manisha	Member	Assistant Professor, Mechanical Engineering
5	Mr. Patil Suhas	Member	Assistant Professor, Mechanical Engineering
6	Mr. Khairmode Omkar	Member	Assistant Professor, Mechanical Engineering
7	Mrs. Ghate Shital	Member	Assistant Professor, Civil Engineering

Table 10.1.3q Internal Complaints Committee (ICC) / Women's Grievance Cell

8	Miss. Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
9	Mrs. Sawant Ashwini	Member	Assistant Professor ,Computer Science & Engineering
10	Mrs. Pawar Snehal	Member	Assistant Professor, Core Science Engineering
11	Mrs. Ghadge Rupali	Member	Clerk
12	Mrs. Shinde Jayashri	Member	Assistant Librarian
13	Miss. Lalge Prajkta	Member	Student, Mechanical Engineering
14	Miss. Jadhav Akanksha	Member	Student, Electrical Engineering
15	Miss. Yadav Bhagyashri	Member	Student, CSE Engineering
16	Miss. Pawar Akanksha	Member	Student, E&TC Engineering
17	Mr. Shelke Siddheshwar	Member	Student, Civil Engineering
18	Miss. Chavan Nikita	Member	Student, First Year Engineering
19	Miss. Jadhav Vrunda	Member	Student, Polytechnic Engineering

Standard Operating Procedure (SOP) of ICC:

- Any female student or employee wants to initiate a grievance may in the first instance bring the issue to the notice of the Head of the respective department, who will forward the matter to Women's Grievance Cell Scrutiny: Women's Grievance Cell will make a thorough review of the Redressal process.
- Call for hearing: Women's Grievance Cell shall fix a date for hearing and intimate the same to the grievant.
- Investigation: If a resolution is not achieved through hearing, then it will take necessary steps to conduct an investigation of the facts. Women's Grievance Cell will have the right to interview witnesses, if it is required. On the basis of investigation by Women's Grievance Cell, report will be submitted to the Head of Institution. The Women's Grievance Cell shall use its best efforts to work out resolutions of the issue.
- Communication the decision: Upon completion of proceedings, the Head of Institution and Women's Grievance Cell shall communicate the final decision to both parties.
- The proceeding concerning each grievance will be documented in a systematic manner. The information relating to the proceedings shall be treated as confidential and can be viewed only by the members of Women's Grievance Cell, for the purpose of investigation

3.0 Anti-Ragging Committee:

Ragging is a very common problem faced by students in the campus during and after college hours. The consequences of students who faced ragging are very serious and shocking. Thus, this committee was constituted to control ragging and provide relief to students who come under this shadow. The committee has the powers to take stringent action on students involving in such activities. Committee comprises of the following members.

Anti ragging Committee							
Sr. No.	Names of committee members	Designation	Department				
1	Dr. Pharande Vilas Arjun	Chairman	Principal				
2	Mr. Jagtap Dayanand	Coordinator	HOD E&TC Engineering				

Table 10.1.3r Anti ragging Committee

3	Miss. Bhosale Rupali H	Member	Social Worker
4	Adv. Dixit D.C.	Member	Advocate
5	Mr. Barge Abhijeet	Member	Local Media
6	Mr. Patil Suhas	Member	Assistant Professor Mechanical Engineering
7	Mr. Nayak Banoth Meghya	Member	HOD Electrical Engineering
8	Mrs.Sawant Ashwini	Member	CSE Department Engineering
9	Dr. Bamane Prashant	Member	Assistant Professor, Civil Engineering
10	Mr. Shinde Chandrashekhar	Member	Office Superintendent
11	Mr. Kadam Vijay	Member	Assistant Professor E & TC Engineering
12	Mr. Khairmode Omkar	Member	Assistant Professor Mechanical Engineering
13	Mr. Bhoite Aryan	Member	Student E&TC Engineering
14	Mr. Roman Aniket	Member	Student Civil Engineering
15	Mr. Chavan Aditya	Member	Student Electrical Engineering
16	Mr. Shinde Suyog	Member	Student Mechanical Engineering
17	Miss. Gawade Priti	Member	Student CSE Engineering
18	Ms.Kadam Dhanashree	Member	Student Core Science & Engineering

10.1.4 Delegation of financial powers

A. Financial powers delegated to the Principal, Heads of Departments and relevant in-charges(3)

B. Demonstrate the utilization of financial powers for each of the assessment years (7)

In order to discharge the day-to-day functions and activities of the Institute in smooth manner, the financial powers are delegated of the Principal, HODs and Deans by the Management. HODs and Deans also prepare budget of the Department and their relevant functional committees. Total budget of the college is prepared by Administrative Office under guidelines of Principal and Management.

Table 10.1.4a Delegation of Financial Power

Sr. No.	Designation	Financial Power
1	Principal	Authorized to sanction up to Rs. 50,000/-
2	HODs and Deans	Authorized to sanction up to Rs. 5,000/-

Following are the some examples where financial powers are delegated of the Principal & staff members

To all B Star of Date 6109/2022 TO sub! Lab for New computer Lab Devlopment We Develop new computer Lab, for this we sequired some New matricel. New material List attach with this application. So full fill this sequire ment PL: 17/50/ Approx. Approx. Need Leubs devultopment. Need Leubs devultopment. Need Leubs devultopment. Need Leubs devultopment. Discussed with Hon-secondent sir Toget dive to the secondent sir Discussed with Hon-secondent sir Toget dive to the secondent sir Youss faith fully Aapolle

Lab Re Mateias Requirement for News computer Lab () cable Tray - 50 feet (26) 18001-Lass cable - Apport. Units W.250M = Lass Switch 01 - 100 M 3500 3 75001 Lan Switch Box - 01 3500 Lan Connector .- 60 (5) 850 17,150 Recommendeel Recommendeel VALI - Old coble for intermul work New ceble for N > Fig 10.1.4.b1 Principal has approved Rs.17150/- for laboratory development

				Deta: 18/02/2022	
				Date: 10104110000	
	То				
	The P	rincipal			
	AGCE	satara			
	Sub :	Regarding requirement of solar p	aanel structure working in workshop		
	Respi	ected sir.			
	Detail	of consumable given in the follo	wing table		
	Lietan	to constitutione given in the tone		Drice	
	Sr	Material	Quantity (in numbers)	Price	
	1	square pipe (35*35*20)	06	4900	
	2	rectangular pipe(03*01)	01	2295	
	3	square pipe (3*3) Bearing & casing 25	01	1500	
	5	Shaft 25*3	01	1500	
	6	Hydraulic ()	04	8000	
	7	fasnar Square plate (4*4*5)	20	100	
	9	Square plate (6*6*5)	01	400	
	10	consumable		2000	
	11	universal joint	01	500	
		Transport	TOTAL	23985/-	1
					1
1	Please 5175 8125	Account.	red Th Mr. Ka	anks & Regards adam Akshaykumar B. ork shop incharge)	
		VAL .	8. [Schult	æ:

nncipal AGCE , Satara subject; sanctioning budget amount for stage of day selebration Respected sir, Planto celebrate annual function & days celebration on date orlostrozz to of 105122. in our college for this event we are require stage in corridoe. For that. 10,000 Rs. please sanction the same amount. Recordended de M8. Klag

Fig 10.1.4.b2 Principal has approved Rs.10000/- for extracurricular activities

The principal AGCE Salara subject : Regarding maintenance of surveying lab Respected Sir, Maintenance is required for 3 theodolites 8. 1 dumpy level in surveying lab. We have taken its quotation from Micron instruments Mashik. I want permission to handover the instruments to micron (3) instruments for maintenance. kindly give permission for the same The revised quatation after inspection of instauments is attached with this application. As per revised quotation total amount of maintenance is as follows. Instrument Instr No. amount Theodolite OS/11 TOL 4875/-01/10 TOL 49501-03/11 TDL 33751-Dumpy level 01/10 21001-2) 11000 service churges. 15, 300 + 18%. GST (on instrument parts) 1) 4000 + 45T Bill 15% trungent handover date : 15/10/2019 de upto dated : 05/11/2019 (MS Tadhav R D) Pharrandes.B. Lab In-charge HOD, Gill Rugg Dept



Fig 10.1.4.b3 Principal has approved Rs.15000/- for Sports activities

		ix Invo	ice	/Bill o	f Su (Orig	pply / ginal	/Cash for Re	Memo ecipien
io ld By : 'ayal Enterprises 4658 A / 21 ANSARIROAD, ANSARI F JARYA GNAJ, DELHI, 110002 N	ROAD		An S/	vind Gav G ATARA,	/ali C at no MAH	Bi ollege 247, ARAS Stat	lling A of Eng Panan SHTRA te/UT C	ddress gineering nalewad , 415015 IN Code: 27
PAN No: AAPFP4704K GST Registration No: NotApplicable		Shipping Address Arvind Gavali College of Engineering Arvind Gavali College of Engineering Gat no. 247, Panamalewad SATARA, MAHARASHTRA, 415015 IN State/UT Code: 27						
9rder Number: 402-0209171-6497171 9rder Date: 27.03.2023		ł	P Pl nvo	lace of s ace of d In ice Det	supp lelive voice ails : nvoi	ly:M/ ry:M Num DL-1/ ceDa	AHARA AHAR/ aber:1 419160 te:27	SHTRA ASHTRA N-16968 061-2223 .03.2023
I. Description		Unit Price	Qty	Net Amount	Tax Rate	Тах	Tax Amount	Total Amount
Embedded Microcomputer System Real Tim 8131516326 (9788131516324) Shipping Charges	e Interfacing	₹608.00 ₹100.00	1	₹608.00 ₹100.00	0% 0% 0% 0%	IGST IGST None IGST IGST	₹0.00 ₹0.00 ₹0.00 ₹0.00 ₹0.00	₹608.00 ₹100.00
							20.00	1
					0%	None	10.00	2-0
OTAL: mount in Words: even Hundred Eight only					0%	None	₹0.00	3708.00
OTAL: mount in Words: ieven Hundred Eight only					o% Foi	Paya	to.oo	t708.00
OTAL: mount in Words: ieven Hundred Eight only					6% For	Paya	to.oo	rprises:

Fig 10.1.4.b4 Staff member has purchase book from their account for library

10.1.5 Transparency and availability of correct/unambiguous information in public domain.

- a. Information on the policies, rules, process is to be made available on website
- b. Dissemination of the information about students, faculty and staff.

The college maintains transparency in all its operations and working. At the beginning of every academic year, the college brings out a calendar, which contains all the information, required by a student and faculty to carry out his/her studies in the college. Information such as internal marks scored by students, shortage of attendance, if any, availability of scholarships, opportunities for students, etc. are promptly displayed on notice boards. Information about every activity in the college is sent to all staff and students through circulars. The institute has its own website: https://agce.edu.in/, which is updated as and when required. The institute and Program-specific information are made available to all stakeholders through the website.

All the required information on policies, rules, and processes are mention in Process Handbook and is made available on the college website for proper dissemination of this information to stakeholders.

Link: https://agce.edu.in/processhandbook



Fig 10.1.5 a Screen shot of Process Handbook first page

b. Dissemination of the information about students, faculty and staff.

Institute disseminate information through promotional activities, website, social media and print media.

i) Promotional Activities Every year institute propagates information through faculty members in society through various promotional activities.



Fig 10.1.5 b1 Promotion activity to SSC Students

ii) Website

All necessary information including intake, latest news, events and update are made available on institute website.




iii) Social media

Institute disseminate information through social media like Facebook, Instagram among the stakeholders.

\leftarrow	agcesa	itara6545		Q	:
SAW	KAR	258	751	8	
		Posts	Followers	Followir	' 9
AGCE	Satara				
College	e & univers	ity			
Sawka	r Institute'	s			
Arvino	l Gavali Col	lege of Engine	ering, Satara		
First & ago Gate	NAAC Accre e.edu.in/ an No. 247, Par Followed by	edited College i nd 2 others nmalewadi, Sat ankur.kamble11	n Satara! ara 415015 17, djajashish and	101 others	
F	ollowina ~	Mes	saae	Contact	
PLACEMEN	TS lati				
PLACEMEN	lati	ŕ		Ô	
engratu	Nati			Ô	
PLACEMEN ongratu	NVITATION	Day 21		<u>ک</u>	
placemen ongratu	Nati	V Day 21 Norme of Speaker Sh. Ashini Verinemit	Brognation 1 UNArtworker Man		
Congratu		Y Day 21 Nerrer of Speaker Mr. Ashiri/ Nationality Mr. Sarity Bonde Mr. Sarity Bonde	Designation (MAN developer Manual State Abandas, get Manual Abandas, get Manual (MAN)	¢	7
PLACEMEN ongratu	Nott Mott Mott Mott Mottation Periodence data Mottation Mo	Y Day 21 Nerre of Speaker Mr. Asholy Springer Mr. Sarger Brook Mr. Sarger Brook Mr. Sarger Brook	Desagnation UADA diversigner UADArmource210 Antonicana and Minister Antonicana and Minister Antonicana and Minister Antonicana and Minister Antonicana and Minister Antonicana and Minister Manister Manister B		
engratu	Noti WITTATION EDEN NUTTATION NUTTATIO	Y Day 21 Nerret of Speaker Mr. Anlach Rateware Mr. Saraja Bounde Mr. Saraja Bounde Mr. Saraja Bounde Mr. Saraja Bounde Mr. Saraja Bounde Mr. Saraja Bounde	Designation UA/NR developer UA/NR developer UA/NR developer Stars Prote Amender Manique Manique Manique Assaidant Professor Cop		
		Norme of Speecher Marrie of Speecher Marrie of Speecher Marrie Marrie Bennite	Designation (MAR developer (MAR developer (MAR developer (MAR) Anterior Ant		
PLACEMEN Dengratu Transformer Transformer Placement Transformer Placement Placeme		An Standbacks S. A. C. Sandback S. S. Sandback S	Designation Mail WA/NK developer Mail WA/NK developer Mail Maintain Difference Amountain Difference Maintain Difference Maintain Difference Maintain Difference Maintain Difference Assessen Difference Assessen Difference Assessen Difference Assessen Difference Cold Difference		
ELACEMEN ongratu ongratu		A Day 21 Nerre of Speaker Mr. Anhlyf Natiswall Mr. Sariet Bonde Mr. Sariet	Designation Mariage Mariage Andreage		
PLACEMEN Dengratu Dengratu 77 th IND Sector Sector Minor GAVAIS Composed C		Arviva Garvalogan Arviva Garvalogan	Designerston dynamics		
en e			Designation (MAN developer) Mark Market Mark		

Fig 10.1.5 b4 Instagram page of Institute



Fig 10.1.5 b5 Facebook page of Institute

iv) Print media

Every year institute publish Admission information diary that includes all institute information like intake, admission process, documents required, faculty members, activities, placement etc.









Fig 10.1.5 b7 Admission information brochure

v) Hoardings

Institute disseminate institute information through hoardings at prominent location in the district viz. Koregaon, Karad, Wai, Rahimatpur, and Medha.



Fig 10.1.5 b8 Admission information Hoardings

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30)

Institute has a well-defined financial policy which ensures optimal utilization of finances for academic, administrative and research activities. The Institute is being run with self sufficient funds generated from tuition fees and from Samarth Education Trust. In case of activities like expansion and renovation of the building, the management always supports by providing required finance. Financial planning is done efficiently at the beginning of the academic year and the budget is approved by the Governing Body.

Optimum utilization of funds is ensured through: -

Adequate funds are allocated for effective teaching learning practices that include Orientation Programmes, Workshops, Interdisciplinary activities, Training programmes, Refresher Courses that ensures quality education.

Budget is utilized to meet day to day operational and administrative expenses and maintenance of fixed assets. Enhancement of library facilities needs to augment learning practices and accordingly requisite funds are utilized every year.

Adequate funds are utilized for development and maintenance of infrastructure of the Institute.

Partial funds are allocated for social service activities as part of social responsibilities through NSS and NCC. Institute provides financial assistance for mini projects.

Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years

Total Income at Institute level: For

CFY, CFYm1, CFYm2 & CFYm3 CFY: (Current Financial Year),

CFYm1: (Current Financial Year minus 1),

CFYm2: (Current Financial Year minus 2) and

CFYm3: (Current Financial Year minus 3)

	Total	Income		Actua	Actual expenditure (till):		
(Amount) (Amount)				Students			
							(Student nos.)
Fee	Govt.	Grants	Other	Recurring	Non	Special	Expenditure
			Sources (specify) Prizes and Awards	including salaries	Recurring	Projects/Any other, specify BCUD, R&D and grants	per student
74954259	0	0	133450	75973630	12625864.8	8900	80553.08695

Table B.10.2a – CFY (2022-23)

Table B.10.2a - CFY (2021-22)

	Total	Income		Actua	ıl expenditur	e (till):	Total No. of
	(Ar	nount)		(Amount)			Students (Student nos.)
Fee	Govt.	Grants	Other	Recurring	Non	Special	Expenditure
			Sources (specify) Prizes and Awards	including salaries	Recurring	Projects/Any other, specify BCUD, R&D and grants	per student
79606611	0	0	367635	68270674	10630726	78700	62982.54

]	Fotal Inc	come		Actua	l expenditur	e (till):	Total No. of
(Amount)			(Amount)		Students (Student nos.)		
Fee	Govt.	Grants	Other	Recurring	Non	Special	Expenditure
			Sources (specify) Prizes and Awards	including salaries	Recurring	Projects/Any other, specify BCUD, R&D and grants	per student
81414627	0	0	462923	61816533	10297456	74700	53197

Table B.10.2a - CFYm1 (2020-21)

Table B.10.2a -CFYm2(2019-20)

	Total I	ncome		Actua	Actual expenditure (till):		
(Amount)				(Amount))	of Students (Student nos.)	
Fee	Govt.	Grants	Other	Recurring	Non	Special	Expenditure
			Sources (specify) Prizes and Awards	including salaries	Recurring	Projects/Any other, specify BCUD, R&D and grants	per student
64740364	0	0	734740	63512329	10009259	288619	63904.94

	Total I	ncome		Actua	Actual expenditure (till):		
(Amount)			(Amount)		of Students (Student nos.)		
Fee	Govt.	Grants	Other	Recurring	Non	Special	Expenditure
			Sources (specify) Prizes and Awards	including salaries	Recurring	Projects/Any other, specify BCUD, R&D and grants	per student
62384164	0	0	337745	57557774	14197280	151600	65132.84

Table B.10.2a- CFYm3(2018-19)

Table B.10.2b

Items	Budgeted in	Actual	Budgete	Actual	Budgeted	Actual
	2022- 2023	Expenses	d in	Expenses	in 2020-	Expenses
		in 2022-	2021-	in 2021-	2021	in 2020-
		2023 till	2022	2022 till		2021 till
Infractructura	11.00.000	10 29 672	2200000	2104076	0	0
mnastructure	11,00,000	10,28,075	3300000	5104970	0	0
Built-Up						
Library	80,000	70,845	23000	30445	35000	13570
Laboratory	11,00,000	10,60,990	1080000	1014157	655000	594030
equipment						
Laboratory	17,75,000	16,47,092	1120000	1023030	1055000	674170
consumables						

Teaching and	6,91,12,000	6,52,98,451	65100000	61189875	63560000	57326373
nonteaching				l		
staff salary						
Maintenance	28,75,000	27,00,109	3190000	2992063	1350000	1224440
and spares						
R&D	3,50,000	3,14,190	290000	259388	90000	74700
Training and	26,18,000	24,16,915	1710000	1659560	1600000	1474093
Travel						
Miscellaneous	2,55,000	2,14,685	159500	148374	135000	113427
expenses *(All				l		
remaining				l		
recurring exp.,				l		
excl.				l		
Depreciation)				l		
Others, specify	3,13,56,000	1,64,28,774	15177000	11686365	27540000	11287915
(All remaining				l		
Capital exp.)						
Total	11,06,21,000	9,11,80,725	91149500	83108233	96020000	72782718

Items	Budgeted	Actual	Budgeted in	Actual Expenses in
	in 2019-	Expenses in	2018- 2019	2018- 2019 till
	2020	2019- 2020 till		
Infrastructure	0	0	0	0
Built-Up	Ŭ			
Dunit op				
Library	167000	156491	400000	138375
Laboratory	850000	797104	430000	277400
equipment				
Laboratory	1640000	1479508	1536000	2051900
consumables				
Teaching and	63560000	57623428	69300000	50222741
nonteaching staff				
salary				
Maintenance and	1985000	1850670	1882000	1812399
spares				
R&D	320000	288619	180000	151600
Training and	1705000	1496097	1077000	2106971
Travel				
Miscellaneous	91000	77900	173000	293916
expenses *(All				
remaining				
recurring exp.,				
excl. Depreciation)				
Others, specify	25374000	10953838	28496520	15267127
(All remaining				
Capital exp.)				
Total	95692000	74723655	103474520	72322429

10.2.1 Adequacy of budget allocation

During the assessment years, the institute allocated an adequate budget. Budget requirements under 'recurring' and 'non-recurring' heads are collected from all the departments and sanctions before the commencement of the financial year. Allocations are made as per the availability of funds. Spending is monitored by the accounts section. The institution carefully monitors the expenses so that the necessities are met without affecting the smooth working of the institution. The management has been very efficient in doing this over the past several years.

Adequacy of budget allocation:

Sr. No	Assessment Year	Allocated Budget	Adequate/ Non- Adequate
1	2022-23	11,06,21,000	Adequate
2	2021-22	9,11,49,500	Adequate
3	2020-21	9,60,20,000	Adequate
4	2019-20	9,56,92,000	Adequate
5	2018-19	10,34,74,520	Adequate

10.2.1 Adec	juate budget	allocation	for institute
-------------	--------------	------------	---------------

10.2.2 Utilization of allocated Funds

Utilization of allocated Funds:

The Principal of the College allocates funds. Department Heads / Section-In charge is informed to utilize the extent of funds allocated against their proposed budget. Major works like construction, up-gradation of existing infrastructure, procurement and maintenance of common utilities, housekeeping, procurement of furniture, etc. are controlled directly by the Principal. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables, etc. are initiated from the respective departments and the funds are released on a case by case basis from the accounts office of the college on approval by the Principal. During the last three years, the budget was utilized to meet expenses such as staff salary, infrastructure development, purchase of equipment, expenses towards consumables and contingencies, travel, etc.

Recurring and non-recurring expenditure is made in the following manner.-

- The requirement of purchase initiated by functional heads.
- It is further verified by the principal.
- On the basis of priority requirement quotations invited from a reputed supplier.
- Comparative statements are prepared and presented before the purchase committee.

• By considering the urgency of requirement and amount involved negotiations are called either before

management or principal.

- After negotiations purchase is initiated by placing a purchase order or work order.
- When equipment or product is received the same is verified for quality and fulfilment of the requirement. Also if training or testing is required then the same is done by the respective functional head.
- On receipt of a satisfactory remark from the respective department, it is recorded in the inward register at the central store. The same is given to the respective department.

(15)

- After that bill along with material inward note is submitted to the account section for the payment purpose.
- Account section does the scrutiny of the document and on receiving the sanction of principal or management actual payment is made.

Sr. No	Assessment Year	Allocated Budget	Utilized Budget	Utilized Percentage
1	2022-23	11,06,21,000.00	9,11,80,725.65	82.43
2	2021-22	9,11,49,500.00	8,31,08,233.00	91.18
3	2020-21	9,60,20,000.00	7,27,82,718.00	75.80
4	2019-20	9,56,92,000.00	7,47,23,655.43	78.09
5	2018-19	10,34,74,520.00	7,23,22,429.17	69.89

Table 10.2.2 Utilization of allocated Funds of Institute

Note: Difference in allocated and utilised budget is more, since the institute prepares budget by considering bank loan instalment (Principle+ interest).But, in profit & loss statement only interest amount is reflected.

10.2.3 Availability of the audited statements on the institute's website (05)

Audited statements of financial years (2022-23, 2021-22, 2020-21, 2019-20, and 2018-19) are available on institute website.

Weblinks:

Audit report 2022-23 https://agce.edu.in/auditreport2022-23

Audit report 2021-22 https://agce.edu.in/auditreport2021-22

Audit report 2020-21 https://agce.edu.in/auditreport2020-21

Audit report 2019-20 https://agce.edu.in/auditreport2019-20

Audit report 2018-19 https://agce.edu.in/auditreport2018-19

10.3 Program Specific Budget Allocation, Utilization

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3 CFY: (Current

Financial Year),

CFYm1: (Current Financial Year minus 1),

CFYm2: (Current Financial Year minus 2) and

CFYm3: (Current Financial Year minus 3)

Table B.10.3a: CFY (2022-23)

(Amount)		Actual expenditure (till):		Total No. Of
(2233406/-)		(Amount)		Students
		(2078601/-)		(269)
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
308128	1925278	295125	1783476	7727.14

Table B.10.3a: CFY(2021-22)

(Amount)		Actual expenditure (till):		Total No. Of
(17751-	47)	(Amount) (1670686)		Students (273)
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
288561	1516586	244872	1425814	6119.73

(30)

(Amount)		Actual expenditure (till):		Total No. Of
(12076)	00)	(Amount) (1032700)		Students (257)
Non-Recurring	Recurring	Non-Recurring Recurring		Expenditure per student
170600	1037000	150560	882140	4018.29

Table B.10.3a: CFYm1(2020-21)

Table B.10.3a: CFYm2(2019-20)

(Amount)		Actual expenditure (till):		Total No. Of Students
(1821500)		(Amount)		(226)
		(1661100)		
Non-	Recurring	Non-Recurring	Recurring	Expenditure per student
Recurring				
360500	1461000	338900	1322200	7350

Table B.10.3a: CFYm3(2018-19)

(Amount)		Actual expenditure (till):		Total No. of Students
(1959700)		(Amount)		(271)
		(1873500)		
Non-Recurring	Recurring	Non-Recurring Recurring		Expenditure per student
631000	1328700	113900	1759600	6913

Items	Budgeted in 2022- 2023	Actual Expenses in 2022- 2023 till	Budgeted in 2021- 2022	Actual Expenses in 2021- 2022 till	Budgeted in 2020- 2021	Actual Expenses in 2020- 2021 till
Laboratory equipment	269000	259460	253169	237735	162000	147200
Software	19564	18340	0	0	0	0
Laboratory consumables	434068	402790	262546	239814	261000	167000
Maintenance and spares	703070	660300	747790	701390	335000	303340
R&D	85590	76830	68000	60800	22500	18500
Training and Travel	640200	591056	400850	389030	385000	365200
Miscellaneous expenses	62350	52500	37400	34780	33500	28100
Total	2213842	2061276	1769755	1663549	1199000	1029340

Table B.10.3b

Items	Budgeted in 2019- 2020	Actual Expenses in 2019- 2020 till	Budgeted in 2018- 2019	Actual Expenses in 2018- 2019 till
Laboratory equipment	216000	202900	118000	76000
Software	102000	96200	403000	0
Laboratory consumables	418000	377000	421000	562800
Maintenance and spares	505000	471100	516000	497100
R&D	81000	73400	49300	41600
Training and Travel	434000	380800	295000	577500
Miscellaneous expenses	23000	20900	47400	80600
Total	1779000	1622300	1849700	1835600

10.3.1 Adequacy of budget allocation

(10)

During the assessment years, the institute allocated an adequate budget. Budget requirements under 'recurring' and 'non-recurring' heads are collected from all the departments and sanctions before the commencement of the financial year. Allocations are made as per the availability of funds. Spending is monitored by the accounts section. The institution carefully monitors the expenses so that the necessities are met without affecting the smooth working of the institution. The management has been very efficient in doing this over the past several years.

Sr. No	Assessment Year	Allocated Budget	Adequate/ Non-Adequate
1	2022-23	2233406	Adequate
2	2021-22	1775147	Adequate
3	2020-21	1207600	Adequate
4	2019-20	1821500	Adequate
5	2018-19	1959700	Adequate

10.3.1 Adequate budget allocation Mechanical Department

10.3.2 Utilization of Allocated Funds

Utilization of allocated Funds:

The Principal of the College allocates funds. Department Heads / Section-In charge is informed to utilize the extent of funds allocated against their proposed budget. Major works like construction, up-gradation of existing infrastructure, procurement and maintenance of common utilities, housekeeping, procurement of furniture, etc. are controlled directly by the Principal. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables, etc. are initiated from the respective departments and the funds are released on a case by case basis from the accounts office of the college on approval by the Principal. During the last three years, the budget was utilized to meet expenses such as staff salary, infrastructure development, purchase of equipment, expenses towards consumables and contingencies, travel, etc.

Recurring and non-recurring expenditure is made in the following manner.-

- The requirement of purchase initiated by functional heads.
- It is further verified by the principal.
- On the basis of priority requirement quotations invited from a reputed supplier.
- Comparative statements are prepared and presented before the purchase committee.
- By considering the urgency of requirement and amount involved negotiations are called either before management or principal.
- After negotiations purchase is initiated by placing a purchase order or work order.
- When equipment or product is received the same is verified for quality and fulfilment of the requirement. Also if training or testing is required then the same is done by the respective functional head.
- On receipt of a satisfactory remark from the respective department, it is recorded in the inward register at the central store. The same is given to the respective department.
- After that bill along with material inward note is submitted to the account section for the payment purpose.

Account section does the scrutiny of the document and on receiving the sanction of principal or management actual payment is made.

Table 10.3.2 Utilization of allocated Funds of Mechanical Department

Sr. No	Assessment Year	Allocated Budget	Utilized Budget	Utilized Percentage
1	2022-23	2233406	2078406	93.07
2	2021-22	1775147	1670686	94.12
3	2020-21	1207600	1032700	85.52
4	2019-20	1821500	1661100	91.19
5	2018-19	1959700	1873500	95.60

10.4 Library and Internet	(20)
10.4.1 Quality of learning resources (hard/soft)	(10)

A. Relevance of available learning resources including e-resources

Institute's central Library is one of the main support services of institute. The main aim of central library is to fulfil the information need of the institute community by providing them necessary information, knowledge, various services and access to e-resources. The Central Library is well equipped with unique collection of encyclopedia, handbooks, text books, reference books and journals as well as eBooks. It supports computerized operations and services. It has a collection of more than ...documents which include books and bound volumes of periodicals. The collection is mainly strong in science & technology. Following is summary of books & journal.

Sr.	Branch	Titles	Volumes	National	International
No				Journals	Journals(online)
1	Computer Science & Engineering.	832	3506	16	160
2	Electronics & Telecommunication Engineering.	754	3869	13	162
3	Civil Engineering	601	3265	13	273
4	Electrical Engineering	669	3107	5	61
5	Mechanical Engineering	693	4525	16	190
6	Core Science	238	2828	3	65
	Total	3787	21100	66	911

Table B 10.4.1.a Summary of Books and Journals

Table B: 10.4.b Purchase results	ecords of E-Resources
--	-----------------------

Year of Purchase	Particulars
2022-23	DELNET
2021-22	DELNET
2020-21	DELNET
2019-20	DELNET
2018-19	DELNET



Fig 10.4a DELNET e Resource subscription 2023-24



Fig 10.4b DELNET e Resource subscription 2022-23



Fig 10.4c DELNET e Resource subscription 2021-22







Fig 10.4e DELNET e Resource e Journal details



Fig 10.4f Students using DELNET e Resource e Journal details

Sr. No.	Other E-Recourses& Particulars
1	DELNET
2	NDL
3	Spoken Tutorials
4	Swayam NPTEL Local Chapter

Table 10.4.1. C Summary of E resources.

B. Accessibility to students:

AGCE is committed to providing equal access to library resources, services, and facilities for all library users. It is a priority for the AGCE Library staff to assist with the retrieval of books and with the use of electronic and e resources. All the students and staff members can assess their library account through KOHA Software, avail e-books through their individual ID and password provided to them, through a static IP address 103.159.152.198:8080.

Library Services	Yes
Carpet area of library (in sq. mtr)	443 sqm
Number of seats in	159
Number of users (issue book) per day	25 to 30 averages
Number of users (reading space) per day	76
Timings:	
On working day	8.00 am to 7.30 pm.
On holiday	
Number of library staff	3

Table B 10.4.1.d Library service details

Number of library staff with degree in Library	2
Management	
Library Management Computerization for search,	КОНА
indexing, issue/return records	
Bar coding used	YES
Library additional services	Internet,Journals,TechnicalMagazine,ConferenceProceedings,Newspaper,Photocopy,Printing & Scanning SoftcopiesofUniversityQuestionpapers&SyllabussharedthroughemailExtendedreadingroomfacilityduringexamperiodOrientationtonewlyadmittedstudents.Onlinepublicaccesscatalogue.

C. Support to students for self- learning activities:

AGCE library helps its students in self-learning activities in following way:

- By providing facilities likes computers, internet and e-resources. The library has separate section where 20 computers with high speed internet are available to provide e-resources facilities to the student & faculty members. Users may access, read or download the e-resources e.g. e-books, e-journals, e-magazine, e-newspaper etc.
- 2. In addition to this, users may watch NPTEL video lectures of their interest here, which have been prepared by eminent professors of IITs &IISc. MIT library.
- The SWAYAM PRABHA is a group of 32 DTH channels devoted to telecasting of high quality educational programmes on 24X7 basis using the GSAT 15 satellite. Every day, there are new content for at least (4) hours which would be repeated 5

more times in a day, allowing the students to choose the time of their convenience. The channels are uplinked from BISAG, Gandhinagar. The contents are provided by NPTEL, IITs, UGC, CEC, IGNOU, NCERT and NIOS.

4. One more important thing here is OPAC (Online Public Access Catalogue). It allows to the users to know about the library holding their account such as dues on his/her account, due date for returning material etc. The users may also access institutional repository. In this centre where they can found project report, old question papers, institute magazines/ journals, syllabus, and many more institute publications.

In addition to above, users can access the NDL (National Digital Library of India), which is very useful for students, faculty members and researchers. Here, they can search e-books, article, audio lecture video lecture, question paper and many more materials.

10.4.2 Internet

(10)

Name of the Internet provider	Neha Infonet, Satara
Available band width	300 Mbps
Wi-Fi availability	Yes, All College Campus & Hostel Bill and Specification is attached
Internet access in labs, classrooms, library and offices of all Departments	Yes, Internet access is available in every laboratory and department Network diagram is attached
Security arrangements (Firewall)	Microtec layer 3 Manageable Switch is used to control every Internet user

Table 10.4.2 Internet information of institute


Fig 10.4.2.a Available band width: Speed Test 300 MBPS



Fig 10.4.2.b Wi-fi facility available at institute



Fig 10.4.2.c Microtec layer 3 Manageable Switch