



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 Electrical Engineering

CRITERION	Vision, Mission and Program Educational	60
01	Objectives	

1. VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

1.1. State the Vision and Mission of the Department and Institute (5)

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 be the center for developing professional and skilled electrical engineers, by providing quality education to solve industrial and social problems.

MISSION of Department

M1: To impart quality education in electrical engineering using an effective teaching learning process.

M2: To develop skills & attitude to achieve a successful career.

M3: To inspire students to become socially committed professionals with ethical values.

B. Appropriateness/ Relevance of the statements. Institute

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

The institute focuses on development and shares its purpose with stakeholders. The aims and objectives are used to measure the Institute's success. Excellence in the engineering education system is for the benefit of society which addresses societal issues. The dedication is to have the necessary industry-focused skills to work as a professional engineer. Expert lecture series conducted are conducted by industry professionals and experts to bridge the gaps in the program.

To provide quality education through effective teaching learning process.

Through the use of ICT tools and project-based learning, we aim to provide highquality education to the students. Through the use of innovative teaching methods, we have been able to create a variety of learning experiences through projects, interaction with the industry experts, real world and inquiry-based learning.

To develop professional skills & promote innovation among students by providing conductive

atmosphere.

The Institute inculcates technical skills and soft skills among the students by providing conducive atmosphere through project competitions, innovative ideas in "AVISHKAR", type of competitions patent filing, registration for NPTEL, conduction of soft skill sessions through experts, executing training and placement activities, internships etc.

To inculcate ethical values, respect for environment and social responsibility.

The Institute has organized the session on ethical values to inculcate ethics workplace such as obeying the Institute rules and regulations, effective communication, taking responsibility, professionalism, trust and mutual respect. The Institute has also organized and participated in environmental and social activities viz. tree plantation, cleanliness camp, geo-tagging, no vehicle day, blood donation, mask and tablet donation, dustbin distribution, vaccination camp, self-defense camp, yoga etc.

C. Consistency of the department statements with the institute statements

Vision

The departmental vision is consistent with the Institute's vision. The department has recognized the importance of professional engineers with a commitment to solve the problems related to the industry and also the society through innovative methodologies and industrial expertise.

Mission

M1 is consistent with the Institute's mission as advanced teaching and learning methodologies lead to the transmission of high academic excellence and quality education. Innovative teaching methods, such as ICT and project-based learning, real-world problem solving and inquiry-based learning have helped to develop the intellectual ability of the students.

M2 is consistent with the Institute's mission, as the Institute has created a conducive environment for the development of professional skills including technical and soft skills, innovations through emerging technologies.

M3 is consistent with the Institute's goal of developing a student community with high ethical standards through techno-social activities and creating awareness about the environment through a variety of activities.

Department

> To be the center for developing professional and skilled electrical engineers, by providing quality education to solve industrial and social problems.

The department's main goal is to provide quality education by meeting industrial requirements through technical skill and identifying societal problems received from the industry and their solution through technical means. The department is looking to develop professional engineers who are ready for the industry.

To impart quality education in electrical engineering using effective teaching learning process.

The department has made significant efforts to improve the students' intellectual abilities through quality education by incorporating industrial expert sessions, industrial visits, internships, domain wise expertise, innovations through Avishkar, training and

placement activities through soft skills including aptitude test, group discussion, and so on.

> To develop skills and attitude to achieve a successful career.

The department has held a number of expert sessions to increase technical proficiency. The students' industry-focused skills can be upgraded through internships and industrial visits. Aptitude sessions, group discussions, and other soft skill workshops have been held to encourage the students' overall growth.

> To inspire students for becoming socially committed professionals with ethical values.

Students are being made aware of the societal and ethical needs in the field of electrical engineering. By balancing the requirements with the obligations of society, ethical ideas urge people to act morally. Ethics are instilled in the students through various group activities using the knowledge of Electrical Power System, Electrical Machine, etc. in society-based applications.

Consistency Matrix

	Institute	Department
Vision	To be an institute of excellence, developing skilled engineers to serve the industry and society.	To be the center for developing professional and skilled electrical engineers, by providing quality education to solve industrial and social problems.
Mission-1	To provide quality education through effective teaching learning process.	M1: To impart quality education in electrical engineering using an effective teaching learning process.
Mission -2	To develop professional skills and promote innovation among students by providing conducive atmosphere	To develop skills & attitude to achieve a successful career.
Mission-3	To inculcate ethical values, respect for the environment& social responsibility	To inspire students to become socially committed professionals with ethical values.

1.2. State the Program Educational Objectives (PEOs) (5)

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

PEO1: The graduates will be able to gain a good fundamental knowledge in science and engineering, to solve electrical engineering problems.

PEO2: The graduates will be able to demonstrate the professional skills to succeed in a competitive environment.

PEO3: The graduates will be able to build ethical values, sensitivity towards society and environment.

The program's educational objectives are designed to include five core values: professionalism, core competency, society and environment, industrial skills, and depth of knowledge. The contexts of PEOs are as given below.

PEO1: Describes the significance of mathematics in analyzing industry-related problems and solving them using various algorithms learned. It also emphasizes fundamental competencies and teamwork skills. PEO1 consists of four major components; core competency, individual, employability and team work.

PEO2: PEO2 emphasizes the graduate's ability to apply knowledge across multiple settings in the long run, as well as possess in-depth functional and disciplinary abilities to solve daily life problems in society, using modern engineering tools and emerging technologies. PEO2 is made possible by diverse professionalism, the environment and society, interpersonal skills, investigations, analysis and solutions.

PEO3: Exhibits the characteristics of a graduate interested in ethical profession for societal progress and environmental respect. The graduates use a variety of computing disciplines to create sustainable solutions in areas such as energy, agriculture, transportation forecasting etc. PEO3 consists of three major components: core competency, societal progress, and the environmental sustainability.

Stalzahaldan	Type	Dumoso/moloyonao	Mode of Publication and
Stakenoider	Type	r ur pose/relevance	dissemination
		Defining development plan and	1. Display boards at meeting /
Management	Internal	road map, providing physical,	interaction locations for all the visiting and working stake
Wianagement	memai	human and financial resources and	holders. (Department entrance,
		formulation of policies.	laboratories, classrooms,
		Implementer (Contributor) of	department meeting room /
		policies, Key contributor in	norary)
Faculty and Support	Internal	developing /implementing growth	2. Department newsletter,
Staff	Internal	plan, responsible for producing	faculty course file, information
		competent graduates from the	brochures, events and
		Institution	academic diary, internal test
Students	Internal	Responsible for creating	assessment book.
Students	Internal	reputation of the Institute.	3. In digital form, the
		Employing graduates and making	statements are published
Employers	External	an assessment on their competency	email, social media, screen
		and employability	saver, event presentations,
		Employer participates in	
Industry	External	curriculum development and	4. The dissemination is observed through
		industry – Institute activities.	online/offline mode such as
		Able to co-relate learning and	induction programs,
Alumni	External	professional practice, provides	administrative and stake
7 Humm	External	appropriate inputs to the	holders meeting.
		department/program committee	
		Provides financial assistance to the	
Funding Agencies	External	Institution and interacts with the	
T ununing Ageneies	External	Principal Investigator/Faculty of	
		the department /program.	
		Perception on the support provided	
Parents	External	by the department/ program for	
	LAWINA	shaping up the career of their	
		wards	

Regulatory/ Accrediting Authorities/Professional bodies	External	Prescribes norms and standards to ensure quality assurance and enhancement	
Society	External	Provides intangible outcome from the Institution's perspective	

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 makes a lot of effort to communicate its vision, mission and PEOs to all internal and external stakeholders through digital print, student progress records, vinyl records and through meetings, held both offline and online.

Table: 1.1 shows details of publication and dissemination of statements

Table 1.1: Stakeholders of the Program

S. 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/	V	
3	Curriculum Course File	\checkmark	
4	Academic Diary		
5	Internal Test and Assessment Book		

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

6	Department Notice Board	\checkmark	
7	Laboratories	\checkmark	
8	Staff Rooms	\checkmark	
9	Class Rooms	\checkmark	
10	Department Newsletter	\checkmark	
11	Industry Institute Interaction Meets		V



SAMARTH EDUCATIONAL TRUST'S ARVIND GAVALI COLLEGE OF ENGINEERING Affiliated to Dr.Babasaheb Ambedkar Technological University(BATU),Lonere. Approved by AICTE, New Delhi, Recognised by Govt. Of Maha,DTE Mumbai. Accredited by NAAC, Bangalore



HOME ABOUT US & ADMISSIONS & DEPARTMENTS & FACILITIES & SCHOLARSHIPS TRAINING & PLACEMENT & R&D AND IPR & IQAC & CONTACT US All News I Activities - I Approvals I Mandatory Disclosure I E-SAR | Clubs I Program Outcomes(POs) I RTI I Academic Toppers | 📢 NEWS » n 2023-2024 Admissions Are Open 2023-2024 Admissions Are Open 2023-2024 About AGCE Home About AGCE Our Vision : To be an institute of excellence, developing skilled engineers to serve the industry and society Our Mission : • 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 Institute Core Values : Professional Ethics Excellence Social Responsibility Accountability & Transparency Use of Technology

Fig. 1.3a: Screenshot of Vision, Mission of Institute disseminated on website



Fig. 1.3b: Screenshot of Vision, Mission of department disseminated on website

HOME ABOUTUSY ADMISSIONSY DEPARTMENTSY FACUTIESY SCHOLARSHIPS TRAINING 6 PLACEMENTY R60 AND IPRY IQACY CONTACTUS			
All News 1	Activities • I Approvals I Mandatory Disclosure I E-SAR Clube I Program Outcomes(POs) I RTI I Academic Toppers		
★ NEWS > Admissions Are Open 2023-2024 Adm	issions Are Open 2023-2024 🤇 🛙		
	Electrical Engineering PEO/PSO's		
	Home Electrical Engineering PEO/PSO's		
Electrical Engineering	Programme Educational Objectives (PEOs)		
Deparment Information	 PEO1 : The graduates will be able to gain a good fundamental knowledge in science and engineering, to solve electrical engineer problems. 		
Notice/Circulars	 PEO2 - The graduates will be able to build ethical values, sensitivity towards society and environment. 		
Faculty Profile	Dramon Specific Outcomer (DSO-)		
Technical / Supporting Staff			
Infrastructure and Facilities	 PS01 : Demonstrate knowledge and hands-on experience with electrical machines, power/energy systems, power electronics and automation problems. 		
Workshops / Guest Lectures	 PSO2 : To develop the professionals and entrepreneurs in Renewable Energy system, electrical Contracting and Consultancy using 		
Activities	modern tools and techniques engineering.		
Student Achievements			

Fig. 1.3c: Screenshot of PEO, PSO of department disseminated on website



Fig. 1.3d: Screenshot of Vision, Mission, PEO and PSO disseminated on MOODLE

1.3 B: Process of Dissemination

- Through interactions with stakeholders, relating to the vision, mission aspects and PEOs in the development, implementation, and execution of academic programmes.
- During the **induction programme**, the vision, mission aspects, and PEOs serve as a road map for a successful career.
- During the **guidance and counseling rounds**, students are made aware of career options and higher educational opportunities that align with the vision, mission and PEOs.
- During **administrative meetings**, it is observed that academic policies, their execution and monitoring are consistent with the vision, mission elements and PEOs.
- The vision and mission are communicated through presentations by the Head of Department, Program Coordinator and Course Coordinators at the start of each term and during sessions, on a regular basis.
- The importance of vision and mission along with its relevance to the Program Outcomes is presented to the students by the faculty members during sessions.

- The Institute vision, mission and departmental vision, mission and program educational outcomes have been described in each and every event (technical and non-technical), meetings with DAB and parents meet etc.
- The Head of Department, in collaboration with the Program Coordinator, educates faculty members on the significance and relevance of vision and mission in relation to Program Educational Objectives and Program Outcomes.

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

In meetings with internal & external stakeholders viz. the Departmental Advisory Board (DAB) meeting, Parents meeting, Employers meeting, Alumni meeting, Students meeting through GFM, Faculty meeting, Events Inauguration, etc., the Head of Department has stated the vision, mission and PEOs. Internal and external stakeholders have been informed about the significance of the vision and its accomplishments through the mission as well as the relevance of programme educational outcomes (PEOs) to understand the ongoing development of department- and outcome-based education.



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)

• Process of Defining the Vision and Mission of the Department

- ➤ The department formulated its vision and mission statements through a consultative process by interacting with all the stakeholders of the department, taking into consideration the long and short-term goals of the department and the societal requirements as shown in the figure 1.4a given below. The vision and mission statements of the department were formulated 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 were followed:
- Step1: Head of Department, along with the faculty members formulate and coordinate the vision and mission statement of the department, based on the continuous feedback from internal and external stakeholders in line with vision and mission of the Institute.
- Step2: The formulated statements of vision and mission are presented in the DAB meeting for their recommendations or suggestions. If any suggestions from DAB are received necessary modifications are incorporated and again forwarded to DAB. This process is continued till the final modifications from DAB are received.
- Step3: Recommended vision and mission statements from DAB are sent to the IQAC in coordination with the governing body. Once it is accepted by IQAC, the governing body approves it.
- Step 4: Finally, the vision and mission statements are published through digital and print media for the internal and external stakeholders.



Figure 1.4 a: Process of defining the Vision and Mission 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 comprising representatives of all internal and external stakeholders as shown in figure 1.4 b. The PEOs were defined through following steps.
- Step 1: PEOs were formulated by HoD in consultation staff members, students, alumni, and industrial experts, professional bodies and taking into consideration the data on current and future trends.
- Step 2: The formulated PEOs are forwarded to Departmental Advisory Board (DAB) for their recommendation or suggestions in the formulated PEOs. If any suggestions from DAB are received necessary modifications are incorporated and again forwarded to DAB. This process is continued till the final modifications from DAB are received.
- Step 3: Modified PEOs statements from DAB are sent to the IQAC in coordination with the governing body. Once it is accepted by IQAC, the governing body approves it.
- Step 4: Finally, the Program Educational Outcomes (PEOs) statements are published through digital and print media for the internal and external stakeholders.



Figure 1.4 b: Process of defining PEOs of the program

The following documents are maintained at the department

- 1. Committee minutes of meeting
- 2. Stakeholder's feedback/form
- 3. Parents feedback
- 4. Alumni inputs
- 5. DAB: Minutes of meeting

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

PEO Statements	M1	M2	M3
Graduates will have expertise in problem analysis, problem solving,			
design, as well as the skills and knowledge required for a successful career	3	3	1
in the field of Electrical Engineering.			
Graduates will be capable of providing smart, sustainable solutions in	C	2	ſ
Electrical Engineering by utilizing modern tools and technologies.	2	5	2
Graduates shall excel in a competitive environment by demonstrating			
leadership and life-long learning skills required for a successful	2	2	3
professional career.			

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

	M1	M2	M3	
PEO Statements	M1: To impart quality education in electrical engineering using effective teaching learning process.	M2: To develop skills & ability to achieve a successful career.	M3: To inspire students for becoming socially committed professionals with ethical values.	Justification
PEO1: Graduates will have expertise in problem analysis, problem solving, design, as well as the skills and knowledge required for a successful career in the field of	3	3	1	M1 highly correlates with PEO1 as quality education is based on the fundamental concept and skills required for a successful career in the field of Electrical Engineering.

				1
Electrical Engineering.				M2 is highly associated with PEO1 as it provides skill set and knowledge for success in the career.
				M3 slightly mapped with PEO1 as it covers technical skills and knowledge.
PEO2: Graduates will be capable of providing smart, sustainable solutions in Electrical	2	3	2	M1moderatelycorrelates with PEO2,foroveralldevelopmentofgraduatesandtostrengthentheirtechnical knowledge.M2M2 highlycorrelateswith PEO2, as it dealswith the advancementinskillsamongthestudentsfortheirsuccessful career.
Engineering by utilizing modern tools and technologies.				M3 moderately correlates with PEO2 as there is more significance on solving real time problem using technical and soft skills rather than imbibing ethical values, respect for the environment, and social responsibility among the students.

PEO3: Graduates				M1 moderately correlate with PEO3 as it emphasizes on quality education however the PEO3 focuses on awareness ethical values,
shall excel in a competitive environment by demonstrating leadership and life-long learning skills required for a successful professional career.	2	2	3	society and environment. M2 moderately correlates with PEO3 as it highlights the development of professional skills among the students to
				M3 highlymapped with PEO3 for establishing the society to meet social challenges.

1: Slightly related

2: Moderately related

3: Highly related

PEOs	Mission Component			
PEO-1 The graduates will be able to gain a good fundamental knowledge in science and engineering, to solve electrical engineering	M1 To impart quality education in electrical engineering using an effective teaching learning process. 3 PEO- Gain a fundamental knowledge M- An effective tasshing learning	M2 To develop skills & attitude to achieve a successful career. 3 PEO- To solve electrical engineering problems	M3 To inspire students to become socially committed professionals with ethical values. 1 PEO- To solve industrial and societal problems M- To inspire students	
problems.	process	M- To develop skills & attitude	to become socially committed.	
PEO-2 The graduates will be able to demonstrate the professional skills to succeed in a competitive environment.	2 PEO- To demonstrate the professional skills. M- To impart quality education.	3 PEO- To demonstrate the professional skills. MTo nurture skills	2 PEO- To succeed in a competitive environment. M-To instil sensitivity towards society	
PEO-3 The graduates will be able to build ethical values, sensitivity towards society and environment.	2 PEO- To build ethical values. M- Imparting quality education.	2 PEO- To develop awareness towards ethical issues. M- Succeed and progress in their skills & attitude to achieve a successful career	3 PEO- To build ethical values, sensitivity towards society and environment. M- To become ethically, socially committed professionals.	

Level 3- Above 70%, **Level 2-** 50 To 70%, **Level 1-** 30 To 50%

PEOs	Mission Component
PEO-1 The graduates will be able to gain a good fundamental knowledge in science and engineering, to solve electrical engineering	M1 - To impart quality education in electrical engineering using an effective teaching learning process.
problems.	M2 - To develop skills & attitude to achieve a successful career.
	M3 - To inspire students to become socially committed professionals with ethical values.
PEO-2 The graduates will be able to demonstrate the professional skills to succeed in a competitive environment.	M1 - To impart quality education in electrical engineering using an effective teaching learning process.
	M2 - To develop skills & attitude to achieve a successful career.
	M3 - To inspire students to become socially committed professionals with ethical values.
PEO-3 The graduates will be able to build ethicalvalues,sensitivitytowardssocietyandenvironment.	M1 - To impart quality education in electrical engineering using an effective teaching learning process.
	M2 - To develop skills & attitude to achieve a successful career.
	M3 - To inspire students to become socially committed professionals with ethical values.

CRITERION	Program Curriculum & Teaching Learning	120
02	Process	

2.1.1. State the process used to identify 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. Electrical Engineering department follows the scheme and syllabus of DBATU University. 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 Electrical Program actively participate in developing and implementing 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 supplemental courses.

Sr. No.	Type of Courses Offered	Number of Subjects Mapped	Number of Credits allotted	Weightage in percentage
1	Basic Sciences Courses(BSC)	7	22	10
2	Engineering Sciences Courses (BSC)	9	15	12
3	Humanities and Social Science Including Management Courses (HSSMC)	5	5	7
4	Professional Core Course (PCC)	32	72	43

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

5	Professional Elective Course (PEC)	9	24	12
6	Open Elective Course (OEC	04	11	5
7	Mini Project /Major Projects	03	19	4
8	Seminar/ Internship	05	5	7
	TOTAL	74	173	100%



Fig B 2.1.1a Curriculum Components

The institution implements the overall curriculum break up as per DBATU which is for 8 semesters. The curriculum for the Bachelor of Engineering in Electrical 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	Weekly Teaching hrs			Evaluation Scheme			Credit
No.	Code		L	Т	Р	CA	MSE	ESE	
1	Mandatory	Induction Program	3 weeks duration in the beginning of the semester					g of the	
2	BTBS101	Engineering Mathematics - I	3	1	-	20	20	60	4
3	BTBS102	Engineering Physics	3	3 1 - 20 20 60		60	4		
4	BTES103	Engineering Graphics	2	-	-	20	20	60	2
5	BTHM104	Communication Skills	2	17.0	-	20	20	60	2
6	BTES105	Energy and Environment Engineering	2		-	20	20	60	2
7	BTES106	06 Basic Civil and Mechanical Engineering		-	-	50	-		Audit
8	BTBS107L	Engineering Physics Lab	1. .		2	60	-	40	1
9	BTBS108L	Engineering Graphics Lab		-	4	60	3	40	2
10	BTHM109L	Communication Skills Lab	-	20	2	60	-	40	1
		TOTAL	14	2	8	330	100	420	18

Semester - I Group A

Semester - II Group B

Sr.	Course	Course Title	Tea	Weekl ching	y hrs	Evaluation Scheme			Credit
NO.	Code		L	Т	Р	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	12	-	20	20	60	2
5	BTES205	Workshop Practices -		-	4	60		40	2
6	BTES206	Basic Electrical and Electronics Engineering		-	3	50	-	-	Audit
7	BTES207L	Computer Programming Lab	1.8	-	2	60	<u> </u>	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

TEACHING & EVALUATION SCHEME ELECTRICAL ENGINEERING

	III SEMESTER.									
S. No	Course Code	Course Title	T	eachir Schem	ig e	Ev	aluatio	on e	Credits	
			L	Т	P	MSE	CA	ESE		
1	BTBS301	Engineering Mathematics-III	3	1	0	20	20	60	4	
2	BTEEC302	Network Analysis and Synthesis	2	1	0	20	20	60	3	
3	BTEEC303	Fluid Mechanics and Thermal Engineering	2	1	0	20	20	60	3	
4	BTEEC304	Measurement and Instrumentation	2	1	0	20	20	60	3	
5	BTEEOEL 305	Elective –I (A) Electrical Engineering Materials (B) Applied Physics (C) Signals and Systems	3	0	0	20	20	60	3	
6	BTMS306	Basic Human Rights	2	0	0	-	20	-	Audit	
7	BTHS 307	Engineering Economics	2	0	0	20	20	60	2	
8	BTEEL308	Network Analysis and Synthesis Lab	0	0	2	-	60	40	1	
9	BTEEL309	Measurement and Instrumentation Lab	-	0	4	-	60	40	2	
10	BTEEL310	Electrical workshop/ Mini project	-	-	2	-	60	40	1	
		TOTAL	16	04	08	120	320	480	22	
IV SEMESTER.										
1	BTEEC401	Electrical Machine-I	3	0	1	20	20	60	4	
2	BTEEC402	Power System-I	2	0	1	20	20	60	3	
3	BTEEC403	Electrical Installation and Estimation	2	0	1	20	20	60	3	
4	BTEEC404	Numerical Methods and Programming	2	0	1	20	20	60	3	
5	BTEEDEL 405	Elective -II (A) Solid State Devices (B) Analog and Digital electronics (C) Electromagnetic Theory	2	0	0	20	20	60	2	
6	BTXX406	Product Design [Online course]	2	0	0	20	20	60	2	
7	BTEEOEL 407	Elective –III (A) Industrial safety (B) Introduction to Non- Conventional energy sources (C) Software Techniques.	2	0	0	20	20	60	2	
8	BTEEL408	Electrical Machine-I Lab	0	2	0	-	60	40	1	
9	BTEEL409	Power System lab-I	0	2	0	-	60	40	1	
10	BTEEL410	Numerical Methods and Programming Lab	-	2	-	-	60	40	1	
11	BTEEL411	Elective-II Lab	0	2	0	-	60	40	1	
	TOTAL		15	08	04	140	380	580	23	

Teaching & Evaluation scheme of Third year B. Tech. Electrical Engineering / Electrical Engineering (Electronics and Power)/ Electrical & Electronics Engg / Electrical & Power Engg.

V Semester

Course Code	Course Name	Teac	hing Sch	neme	Evaluation Scheme				
		L	P	T	Int	MSE	ESE	Total	Credits
BTEEC501	Electrical Machine-II	3	0	1	20	20	60	100	4
BTEEC502	Power System-II	3	0	1	20	20	60	100	4
BTEEL503	Microprocessor and micro Controller	3	0	0	20	20	60	100	3
BTHM504	Value Education, Human Rights and Legislative Procedures [MOOC/Swayam/NPTEL]	2	0	0		-	104 	Audit course	0
BTEEE505	Elective-IV	3	0	0	20	20	60	100	3
BTEEOE506	Elective-V	3	0	0	20	20	60	100	3
BTEEL507	Electrical Machine-II Lab	0	4	0	60	0 - 2	40	100	2
BTEEL508	Power System-II Lab	0	2	0	30	-	20	50	1
BTEEL509	Microprocessor and micro Controller Lab	0	2	0	30	-	20	50	1
BTEEF510	Industrial Training	-	-	-	50	-	-	50	1
	Total	17	08	02	270	100	380	750	22

Elective- IV: 1.Illumination engineering 2. Advances in Renewable Energy Sources. 3. Testing and Maintenance of Electrical equipment.

Elective-V: 1.Electrical Mobility. 2 Power Plant Engineering. 3. Design and Analysis of Algorithms

VI semester

Course Code	Course Name	Teaching Scheme			Evaluation Scheme				
		L	Р	T	Int	MSE	ESE	Total	Credits
BTEEC601	Control System	3	0	1	20	20	60	100	4
BTEEC602 Principles of Electrical Machine Design		3	0	0	20	20	60	100	3
BTEEC603	Power Electronics	3	0	1	20	20	60	100	4
BTEEE604	Elective-VI	3	0	0	20	20	60	100	3
BTEEC605	Elective-VII	3	0	0	20	20	60	100	3
BTEEOE606	Elective-VIII [MOOC/Swayam/NPTEL]	3	0	0	20	20	60	100	3
BTEEL607	Control System- Lab	0	2	0	30	ā	20	50	1
BTEEL608	Principles of Electrical Machine Design Lab	0	2	0	30	-	20	50	1
BTEEL609	Power Electronics Lab	0	4	0	60	-	40	100	2
	Total	18	08	02	240	120	440	800	24

Elective-VI Industrial automation and Control 2. Design of Experiments 3. Artificial neural network.

Elective-VII 1. Switch Gear and Protection 2. Computer aided analysis and design 3. Mechatronics

Elective- VIII. 1. Rural Technology and Community Development. 2. Project Management 3. Knowledge Management

Dr. Babasaheb Ambedkar Technological University, Lonere.

B.Tech (Electrical Engineering / Electrical Engineering (Electronics and Power)/ Electrical & Electronics Engg / Electrical & Power Engineering)

Sr. No.	Course Code	Type of Course	Course Title	Hours per week			Ev	aluati	on e	Total Marks	Credits
	Provide States			L	T	P	MSE	CA	ESE		
1	BTEEC701	PCC1	Power System Operation & Control	3	0	0	20	20	60	100	3
2	BTEEC702	PCC2	High Voltage Engineering	3	0	0	20	20	60	100	3
3	BTEEC703	PCC3	Electrical Drives	3	0	0	20	20	60	100	3
4	BTEEE704	PEC1	Elective-IX	3	0	0	20	20	60	100	3
5	BTEEE705	PEC2	Elective-X	3	0	0	20	20	60	100	3
6	BTEEL706	Lab	Power System Operation & Control Lab	0	0	2		30	20	50	1
7	BTEEL707	Lab	High Voltage Engineering Lab	0	0	2		30	20	50	1
8	BTEEL708	Lab	Electrical Drives Lab	0	0	2		30	20	50	1
9	BTEES709	Seminar	Seminar	0	0	2		30	20	50	1
10	BTEEP710	Project	Project Part-I	0	0	6		30	20	50	3
11	BTEEF711		Field Training /Internship/Industrial Training III			ेल्ल		-	50	50	1
	1		Total	15	0	14	100	250	450	800	23

Curriculum for Semester VII [Final Year]

Elective-IX	Elective-X
A) Special Purpose Electrical Machines	A) Digital Signal Processing
B) Electrical Traction and Utilization	B) Energy Audit and Conservation
C) Engineering System Design and Optimization	C) Electrical Power Quality
D) Financial Management	D) HVDC Transmission and FACTS

Dr. Babasaheb Ambedkar Technological University, Lonere.

B.Tech (Electrical Engineering / Electrical Engineering (Electronics and Power)/ Electrical & Electronics Engg / Electrical & Power Engineering)

Curriculum	for	Semester	VIII	Final	Vearl
Curriculum	IOF	Semester	VIII	rman	rear

Sr.	Course	Course Title	Hou	rs per	week	Evalu	ation Se	Total	Credits	
No.	Code		L	T	P	MSE	CA	ESE	Marks	
	1.Power Management Integrated Circuits 2.DC Power Transmission Systems 3.High Power Multilevel Converters 4.Fuzzy Sets, Logic and Systems & Applications 5.The Joy of Computing using Python 6.Introduction to Industry 4.0 and		3	0	0	20*	20*	60*	100	3
	7.Entrepreneurship Essentials # Student to opt any two subjects from above list			0	0	20*	20*	60*	100	3
6	BTEEP803	Project - II	0	0	30		100	150	250	15
		Total	6	0	30	40	240	270	450	21

* Six months of Internship in the industry

*Students doing project at institute will have to appear for CA/MSE/ESE

* Student doing project at Industry will give NPTEL examination / Examination conducted by university i.e. CA/MSE/ESE

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

Teacher who work as a facilitator for the course should be allotted 3 hrs/week load.

Project Load: 2hrs/week/project.

The department has a well-defined process in implementation to achieve the Program Outcomes (PO) and Program Specific Outcomes. 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.

Following processes are 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.
- 2. 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 Co-relation 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.

e	ject														
Subject Coc	Name of Sub	P01	PO2	PO3	PO4	PO5	906	P07	PO8	909	PO10	P011	P012	PSO-1	PSO-2
BTBS101	Engineering Mathematics- I	Y	Y	Y	Y		Y					Y	Y		
BTBS102	Engineering Physics	Y	Y	Y	Y		Y	Y					Y	Y	
BTES103	Engineering Graphics	Y	Y	Y	Y	Y					Y		Y		
BTHM104	Communication Skills	Y				Y	Y		Y		Y		Y		
BTES105	Energy and Environment Engineering	Y	Y	Y	Y		Y	Y	Y		Y	Y		Y	
BTES106	Basic Civil and Mechanical Engineering	Y	Y	Y	Y		Y	Y			Y	Y			
BTBS107L	Engineering Physics Lab	Y	Y	Y	Y		Y	Y		Y			Y	Y	
BTES108L	Engineering Graphics Lab	Y	Y	Y	Y	Y				Y	Y		Y		
BTHM109L	Communication Skills Lab.					Y	Y		Y		Y		Y		
BTBS201	Engineering Mathematics-II	Y	Y	Y	Y		Y					Y	Y		
BTBS202	Engineering Chemistry	Y	Y				Y	Y		Y					
BTES203	Engineering Mechanics	Y	Y	Y			Y			Y					
BTES204	Computer Programming in C	Y	Y	Y						Y	Y				
BTES205	Workshop Practices	Y				Y				Y	Y			Y	
BTES206	Basic Electrical and Electronics Engineering	Y					Y	Y						Y	
BTES207L	Computer Programming Lab	Y	Y	Y						Y	Y				
BTBS208L	Engineering Chemistry Lab	Y	Y				Y	Y		Y					
BTES209L	Engineering Mechanics Lab	Y	Y	Y			Y	Y		Y	Y				
BTES210P	Mini Project	Y	Y			Y	Y	Y	Y	Y	Y			Y	Y

Table B.2.1.1.c Mapp	ping of the courses	to program outcomes
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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).	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
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Subject Code	Name of Subject	PO1	P02	PO3	P04	PO5	P06	P07	PO8	60d	PO10	P011	P012	PSO-1	PSO-2
BTBS301	Engineering Mathematics-III	Y	Y	Y	Y		Y					Y	Y		
BTEEC302	Network Analysis and Synthesis	Y	Y	Y		Y	Y			Y	Y		Y	Y	
BTEEC303	Fluid Mechanics and Thermal Engineering	Y	Y								Y				
BTEEC304	Measurement and Instrumentation	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y
BTEEOEL 305A	Elective –I (A) Electrical Engineering Materials	Y	Y				Y				Y				
BTMS306	Basic Human Rights	Y	Y								Y		Y		
BTHS 307	Engineering Economics	Y	Y								Y		Y		
BTEEL308	Network Analysis and Synthesis Lab	Y	Y	Y		Y	Y			Y	Y		Y	Y	
BTEEL309	Measurement and Instrumentation Lab	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
BTEEL310	Electrical workshop/ Mini project	Y	Y	Y		Y	Y	Y	Y	Y	Y		Y	Y	
BTEEC401	Electrical Machine-I	Y	Y	Y			Y			Y	Y	Y	Y	Y	
BTEEC402	Power System-I	Y	Y			Y	Y	Y		Y	Y	Y		Y	
BTEEC403	Electrical Installation and Estimation	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y
BTEEC404	Numerical Methods and Programming	Y	Y	Y		Y				Y	Y				
BTEEDEL 405B	Elective –II (B) Analog and Digital electronics	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	

BTXX406	Product Design [Online course]	Y	Y			Y	Y			Y	Y				
BTEEOEL 407B	Elective –III (B) Introduction to Non- Conventional energy sources	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
BTEEL408	Electrical Machine-I Lab	Y	Y	Y			Y			Y	Y	Y	Y	Y	
BTEEL409	Power System lab-I	Y	Y			Y	Y			Y	Y			Y	Y
BTEEL410	Numerical Methods and Programming Lab	Y	Y			Y				Y					
BTEEL411B	Elective-II Lab (B) Analog and Digital Electronics	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	

r															
Subject Code	Name of Subject	POI	P02	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	P012	PSO-1	PSO-2
BTEEC501	Electrical Machine- II	Y	Y	Y						Y	Y		Y	Y	
BTEEC502	Power System-II	Y	Y			Y	Y	Y						Y	
BTEEL503	Microprocessor and micro Controller	Y	Y			Y							Y	Y	
BTHM504	Value Education, Human Rights and Legislative Procedures [MOOC/Swayam/N PTEL]						Y		Y		Y				
BTEEE505	Elective-IV- Illumination engineering	Y	Y					Y						Y	
BTEEOE506	Elective-V- Power Plant Engineering	Y					Y							Y	
BTEEL507	Electrical Machine- II Lab	Y	Y	Y				Y		Y	Y		Y	Y	
BTEEL508	Power System-II Lab	Y	Y			Y	Y	Y						Y	
BTEEL509	Microprocessor and micro Controller Lab	Y	Y			Y							Y	Y	
BTEEF510	Industrial Training	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
BTEEC601	Control System	Y	Y			Y		Y			Y			Y	
BTEEC602	Principles of Electrical Machine Design	Y	Y	Y		Y					Y			Y	Y
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BTEEC603	Power Electronics	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
BTEEE604	Elective-VI- Industrial automation and Control	Y	Y											Y	
BTEEC605	Elective-VII- Switch Gear and Protection	Y	Y				Y			Y	Y			Y	
BTEEOE606	Elective-VIII- Project Management [MOOC/Swayam/N PTEL]	Y	Y				Y				Y	Y			
BTEEL607	Control System- Lab	Y	Y			Y					Y				
BTEEL608	Principles of Electrical Machine Design Lab	Y	Y	Y		Y					Y			Y	Y
BTEEL609	Power Electronics Lab	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Subject Code	Name of Subject	P01	P02	PO3	PO4	PO5	P06	PO7	PO8	P09	PO10	P011	P012	PSO-1	PSO-2
BTEEC701	Power System Operation & Control	Y	Y			Y	Y	Y			Y			Y	
BTEEC702	High Voltage Engineering	Y	Y				Y	Y			Y			Y	
BTEEC703	Electrical Drives	Y	Y				Y				Y		Y	Y	
BTEEE704B	Elective-IX- (B) Electrical Traction and Utilization	Y	Y				Y							Y	
BTEEE705D	Elective-X- (D) HVDC Transmission and FACTS	Y	Y				Y				Y			Y	
BTEEL706	Power System Operation & Control Lab	Y	Y			Y					Y			Y	
BTEEL707	High Voltage Engineering Lab	Y	Y				Y	Y			Y			Y	
BTEEL708	Electrical Drives Lab	Y	Y				Y				Y		Y	Y	
BTEES709	Seminar	Y	Y				Y		Y		Y			Y	

BTEEP710	Project Part-I	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	
BTEEF711	Field Training/Internship/I ndustrial Training III		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
BTEEPE801	High Power Multilevel Converters (Elective-I)	Y	Y	Y		Y					Y	Y	Y	Y	
BTEEP802	Entrepreneurship Essentials (Elective- II)	Y	Y				Y				Y				
BTEEP803	Project - II	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Total (74)	7 2	6 8	37	1 6	3 7	5 2	2 9	2 0	3 6	5 6	2 3	3 6	49	1 1
	Percentage	9 7	9 2	50	2 2	5 0	7 0	3 9	2 7	4 9	7 6	3 1	4 9	66	1 5
	Program Outcomes	Р О 1	P O 2	PO 3	Р О 4	Р О 5	Р О 6	Р О 7	P O 8	Р О 9	P O 1 0	P O 1 1	P O 1 2	P S O 1	P S O 2

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	PO7	Environment and sustainability
3	PO8	Ethics
4	PO11	Project management and finance

 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	Measurement and Instrumentation (BTEEC 304)	High voltage and current measuring instrument systems	PO8, PO7, PSO1
2	Electrical Installation and Estimation (BTEEC403)	Layout design of substation	PO7, PO8, PSO2
3	Power System-I (BTEEC402)	Fault monitoring system	PO8, PO7, PSO1
4	Principles of Electrical Machine Design (BTEEC602)	Advanced Machine winding design process	PO4, PO8, PO11, PSO2
5	Industry Essential Skills	Industrial Culture	PO8, PSO2
6	Project Management (BTEEOE606)	Advanced Project Management Tools	PO11, PO8, PO4, PSO1, PSO2
7	Electrical Drives (BTEEC703)	Advanced control drives	PO4, PO7, PO8, PSO2
8	Power Electronics (BTEEC603)	Design, analysis and Interpretation of Inverters.	PO4, PO7, PO11

CAYm1 (2021-22):

Table B.2.1.1f: Identified Curricular Gaps

Sr. No	Relevant Course/Area	Curriculum Gap Identified	Relevance to PO & PSO
1	Power System (BTEEC402)	Fault Detection methods and Substation automation	PO5, PSO1
2	Introduction to Non- Conventional energy sources (BTEEOE407-B)	Solar Plant Automation	PO5, PSO1
3	Industry Automation	PLC	PO5, PSO1
4	Electrical Machines	Alternator Excitation system	PO5, PSO1
5	Industry Essential Skills	Industrial Culture	PO8, PSO2
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.2.1.1g: Identifie	ed Curricular Gaps
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Sr. No	Relevant Course/Area	Curriculum Gap	Relevance to PO
		Identified	& PSO
1	Industrial automation and Control (BTEEE604)	PLC & SCADA implementation for	PO3, PO5, PSO1
		Automation	
2	Switch Gear and	Advance relays for	PO2, PO3, PO5,
	Protection (BTEEC605)	protection	PSO1
3	Power System-II	Transmission line	PO1, PO2, PO5,
	(BTEEC502)	faults and	PSO1
		calculations	

2.1.2. State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs. (10)

CAY (2022-23):

Sr. No.	Gap	Action Taken	Date- Month- Year	Resource Person with Designation	No. of Studens	Relevance to Pos, PSOs
1	Advanced machine design tools	Industrial visit	13-04- 2023	AG Electro Services,Karad.	32	PO4, PO7, PO11, PO4,PO8, PSO2
2	Design, analysis and Interpretation of Inverters, High voltage and current measuring instrument systems,	Industrial visit	25-11- 2022	HVDC Substation, Padghe	30	PO4, PO7, PO8,PO11, PSO1
3	Advanced Tools used for Project Management	Guest lecture on Management Studies	14-12- 2022	Dr. Pranjali Ankule	34	PO2, PO3, PO4, PO8,PO11,PSO 1 & PSO2
4	Technical skills in line with the requirements of the industry	Industrial Tour	17-12- 2022	IIT Bombay	5	PO1, PO2, PO3, PO4, PSO1
5	Skill Based Training Program	Skill Based Training Program	6-01- 2023	Symboisis Skills and Professional University (SSPU)	10	PO1, PO2, PO3, PO4, PSO1
6	Skill Based Training Program	Corporate Grooming	21-02- 2023 to	Mr. George	45	PO1, PO2, PO3, PO4, PSO1

			23-02- 2023			
7	Softskill training in line with industry requirement	IT Career in digital marketing (AJDM)	10-03- 2023	Mr. AjinkyaPawar (AJDM, India)	28	PO2, PO3, PO4, PSO1
8	Demonstratio n skill and Technical skill development	Project Exhibition	16/04/2 023		34	PO1, PO2, PO3, PO4, PO7,PO8,PO11, PSO1
9	Investigation on complex problems	International Conference	13-05- 2023 to 14-05- 2023	Dr. Zehila Selamoglu	95	PO2, PO3, PO4,PO8 PSO1
10	Tecknical knowledge and industry exposure sharing	"Guest Lecture by Alumni"	19 -05- 2023	Ms.Pranita Hanmant Chavan	42	PO1, PO2, PO5, PO12,PSO1
11	Modern tools used for design of Electrical installation	Two Days Workshop on "Autocad"	2-12- 2023 to 3-12- 2023	Mrs. Hake Shubhangi Vinod	42	PO5,PO8,PO12, PSO1,PSO2
12	IT Industry exposure and opportunities	"Guest Lecture by Alumni"	24 -04- 2023	Ms. Archana Rao	38	PO6,PO7,PO10, PO8, PO4
13	Industry exposure and opportunities	"Guest Lecture by Alumni"	02 -12- 2022	Mr. Shubham Patil	37	PO6, PO3, PO5,
14	Soft skill & Personality Development	Brand Yourself	17-05- 2022 to 19-05- 2022	Mr. George	80	PO1, PO2, PO3,PO7, PO10, PSO1

15	Industry	Yuva 360	14-06-	Mrs. Patil	70	PO1,PO2, PO3,
	Readiness	degree	2022			PO4,PO5,PO8,P
		Internship				O7,PSO1
16	Awareness of	German	1/03/20	Ms. Sunita	60	PO1, PO2,
	Higher	Language	22	Shaligram		PO3,PO8,PO10,
	Education	Training				PSO1
		Program	30/6/20			
			22			

CAY m1(2021-22):

Sr.	Gap	Action	Date-	Resource	No. of	Relevance to
No.		Taken	Month-	Person with	Students	Pos, PSOs
			Year	Designation		
1	Technical skills in line with the requirements of the industry	Expert lecture on Electrical Traction & Utilization	28 th January 2022	Mr. Patil D. A. Asst. Professor DKTE, Ichalkaranji	14	PO1, PO2, PO3, PO4, PSO1
2	Technical Skills in line with the requirements of the industry	Expert lecture on HVDC and FACTS	29 th January 2022	Mr. Patil S.D. Asst. Professor ADCET, Ashta	15	PO2, PO3, PO4, PSO1 & PSO2
3	Technical Skills in line with the requirements of the industry	Expert lecture on Electrical Drives	2 nd February 2022	Mr. Chavan P. L. Asst. Professor KIT, Kolhapur	10	PO1, PO2, PO3, PO4, PSO1
4	Technical Skills in line with the requirements of the industry	Expert lecture on High Voltage Engineering	4 th February 2022	Mr.Zende R. M. Asst. Professor Zeal, Pune	08	PO1, PO2, PO3, PO4, PSO1

						-
5	Technical	Expert	2 nd	Mr. Chavan P.	10	PO1, PO2, PO3,
	Skills in line	lecture on	February	L. Asst.		PO4, PSO1
	requirements	Electrical	2022	Professor KIT,		
	of the	Drives		Kolhapur		
	industry					
6	Technical	Expert	5 th	Mr. Chavan	13	PO2, PO3, PO4,
	Skills in line	lecture on	February	Avinash S.		PSO1
	with the requirements	Electrical	2022	Asst. Professor		
	of the	Mobility		JSPM, Pune		
	industry					
7	Technical	Expert	30 th	Mr. B.V. Sai	27	PO1, PO2, PO3,
	Skills in line	lecture on	January	Thrinath Asst.		PO4, PSO1
	with the requirements	Electrical	2022	Professor,		
	of the	Machine-I		NIE, AP		
	industry					
8	Technical	Webinar on	20 th	Mr. Ashwin	40	PO2, PO3, PO4,
	Skills in line	Hybrid	December	Dhaigude,		PO5, PSO1
	requirements	Electrical	2021	Product		
	of the	Vehicle		design/Testing		
	industry	Technology		at Toyota		
9	Technical	Interdisciplin	24 th	Mr. Chavan	20	PO2, PO3, PO4,
	with the	ary guest	December	Santosh, Asst.		P201
	requirements	lecture on	2021	Prof.		
	of the	Converters				
	industry	used in				
		Electric				
		Vehicle				

10	Technical Skills in line with the requirements of the industry Technical	Alumni guest lecture on Pricol recruitment Process Internal	11 th April 2022 28-	Mr. Dede Pradip, Quality Assurance Engineer Dr. Mirajkar	18	PO2, PO3, PO4, PSO1 PO1, PO2, PO3,
	Skills in line with the requirements of the industry	Hackathon of Smart India Hackathon 2022	29/042022	Gayatri		PO4, PSO1
12	Recent Trends & Industry Readiness	Industrial Visit	22 th December 2021	Mr. Ramesh Babu, Electrical Engineer, Urmodi Power plant	42	PO1, PO2, PSO5, PSO12/PSO1 & PSO2
13	Industry Readiness	Industrial Visit	29 th December 2021	Mr. Mane Prithviraj, & Mr. Khairmode Abhijeet, Plant In-charge	42	PO8, PO10, PO12, PSO2, PSO3
14	To Enhance communicati on skills	Soft skill program Conducted by Rubicon	16-22 /9/2022	Mr. G George	38	PO10
15	Dimensional Modeling	One-day Workshop on Business Intelligence	13/11/202	Mr. Suyog Patil	37	PO6, PO3, PO5, PSO1

16	Usage of Modern Tools	Effective Use of ICT Tools (MOODLE), NPTEL COURSERA Certification	9-12-2021	Ms. S.Y. Mulla	43	PO2, PO3, PO4, PSO1
17	Soft skill & Personality Development	English Speaking Session	1-05-2022 to 30-06- 2022	Mr. Kale Abhay.A. (A.G.C.E., Satara)	36	PO2, PO3, PO4, PO10, PSO1
18	Recent Trends & Industry Readiness	Camp us To Corpo rate Activity	1-05-2022 to 30-06- 2022	Ms. Bhilar e Nikita .S. Mr. Kale Abhay.A	35	PO1, PO2, PO3, PO4, PSO1
19	Soft skill & Personality Development	Brand Yourself	17-05- 2022 to 19-05- 2022	Mr. George	33	PO1, PO2, PO3, PO4, PSO1
20	Industry Readiness	Yuva 360 degree Internship	14-06- 2022	Mrs. Patil	32	PO2, PO3, PO4, PSO1
21	Awareness of Higher Education	German Language Training Program	1/03/2022 30/6/2022	Ms. Sunita Shaligram	33	PO1, PO2, PO3, PO4, PSO1

CAY m2 (2020-21):

Sr. No.	Gap	Action Taken	Date- Month- Year	Resource Person with Designation	No. of Students	Relevance to Pos, PSOs
1	Industry Software Test Cases, Black Box Testing, Categories of Testing	A career in Software Testing: Prerequisite & Opportunities	9/5/2021	Mr. Sushant Sankpal Quality Kiosks Mumbai	20	PO2, PO3, PO4, PSO1
2	PLC application and Automation	Guest lecture on PLC key Products in Industrial Automation	2 nd April 2021	Mrs. Yogita Katre, Industrial Automation Trainer	35	PO3, PO5, PSO1
3	Technical Skills in line with the requirements of the industry	Guest lecture on Expectations from the Young Professionals	16 th April 2021	Mr. Sandeep Karkhanis & Mr. Shrikant Korade Industrial Automation Trainer	25	PO2, PO3, PO5, PSO1
4	Technical Skills in line with the requirements for Startup and innovation	Guest lecture on Industrial Talk on Carrier startup funding	17 th April 2021	Mr. Rohit Sorate CEO Urban Mandai	32	PO2, PO3, PO5, PSO1

5	Technical	Expert	26 th April	Mr. Renjith	30	PO2, PO3, PO5,
	Skills in line	lecture on	2021	CV Product		PSO1
	with the requirements	Career		Designer		
	of the	Options and				
	industry	opportunities				
		for				
		Electronics				
		Graduates				
6	Fataaaaaaaaaa	Cuidanaa	25th Amril	Ma Mandan	15	DO0 DO10
0	Skills	Guidance	25 th April	Wir. Mandar	15	PO9, PO10, PSO1
	21110	session on	2021	Kulkarni,		
		Entrepreneur		Owner Ideal		
		ship		Gas Springs,		
		Development		Satara		
7	Technical Skills requirements	How to Crack Gate Examination	5-12-2020	Mr.Sumit Acharya (Gate Academy Pune)	42	PO2, PO3, PO5, PSO1
8	Technical	Online	2 March	Mr. Kale	30	PO2, PO3, PO5,
	Skills in line	Alumni guest	2021	Kiran,		PSO1
	with the requirements	lecture on		Electrical		
	of the	Industrial		Trainee		
	industry	Skill		Engineer		
		requirements				
		and Job				
		opportunities				
9	Technical	Online	6 th	Mr Mali	22	PO2 PO3 PO5
	Skills in line	Alumni quest	V November	Vijay Ouality		PSO1
	with the	lecture on	2020	Engineer		
	requirements	Industrial		Dhoot		
	industry	Automation		Transmission		
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10	Technical	Online	30 th March	Mr. Shivaji	22	PO2, PO3, PO5,
	Skills in line	Alumni guest	2021	Shelake,		PSO1
	with the requirements	lecture on		Electrical		
	of the	Power		Engineer,		
	industry	System		Suzlon Global		
11	Technical	Online	23 April	Mr. Patil Anil,	22	PO2, PO3, PO5,
	Skills in line	Alumni guest	2021	Electrical		PSO1
	requirements	lecture on		Technician,		
	of the	Electrical		MSEB Satara		
	industry	Substation,				
		Transmission				
		&				
		Distribution				
12	Technical	Online	6 th May	Mr. Potdar	17	PO2, PO3, PO5,
	Skills in line	Alumni guest	2021	Utkarsh S.,		PSO1
	with the	lecture on		Electrical,		
	of the	Industrial		Embedded		
	industry	Requirements		Engineer		
13	Technical	Guest lecture	2nd March	Mrs. Nital	30	PO2, PO3, PO5,
	Skills in line	on Career	2021	Sarap(Industria		PSO1
	with the requirements	scope for		l Automation		
	of the	Industrial		Trainer		
	industry	Automation				
14		Online webinar on Intellectual property rights	28-05- 2021	Dr. B.K Sarkar	36	PO2, PO3, PO5, PSO1

2.2. Teaching - Learning Processes

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

(Processes may include adherence to the academic calendar and improving instruction methods using pedagogical initiatives such as real-world examples, collaborative learning, quality of laboratory experience concerning conducting experiments, recording observations, analysis of data, etc. encouraging bright students, assisting weak students, etc. The implementation details and impact analysis need to be documented.

A. Adherence to Academic Calendar

- 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

(03)

	Registrar			र्य ।	प्रायान फ जोगी	Dr. Bhagwan F	, and				an erent
					कुलसचिव	DBATU (4, 1)	K-1 2023 1337			D	ated:13 to
	Academic Calenda	r 2022-23 (Odd	Semester) (Date Engi	d:12/08/2022	10	Academic Calendar -	UG Sem. VI &	VIII (AY 2022	2 - 23)	
SI.	Activity	Commencement	Concluding	Total	Engineering	Sr. No.	Activity	Commencement Date	Concludin gDate	Total Days	Level
1	Admissions: B.Tech. Second, Third and Final Year; M.Tech. Second year,	September 01, 2022	September 10, 2022	10 10	UG and PG	1	Commencement of Classes	1# Feb 23	20 th May 23	90	UG
2	Commencement of Classes of Second, Third and Final Year	September 01,	December	110	UG and PG	2	Mid Semester Examination	27°Mar 2023	1 st Apr 23	05	UG
3	Dissertation Examination of the Academic Year 2021-2022	September 01, 2022	September 10, 2022	10	PG	3	End of Classes		20 th May 23		UG
4	Mid-Semester Examinations	October 12, 2022	October 21, 2022	09	UG and PG	4	Practical/Project/Seminar Examination	25 th May 23	27 th May 23	03	UG
5	Submission of Dissertation Proposal to University	October 18, 2022	October 21, 2022	04	PG	5	End Semester Examination	12 th June 23	23 th June 23	11	UG
6	Display of Mid-Semester Examination Marks	October 28, 2022	October 31, 2022	04	UG and PG	6	Result Declaration		27th July 23		
7	Serutiny of Master's Level Dissertation Work Proposal	November 01, 2022	November 03, 2022	03	PG				22 July 25	_	
8	Exam Form Filling for Regular & Supplementary Examinations	November 01, 2022	November 08, 2022	08	UG and PG	7	Commencement of Classes for Next semester	17 th July 23			
9	Exam Form Filling for Regular & Supplementary Examinations with Late Fee	November 09, 2022	November 15, 2022	07	UG and PG		18 Feb - Mahashivratri		14 Anvil - De Bab	seshah I.	- North and
0	University Tech Fest 2021	November 17, 2022	November 19, 2022	03	UG and PG	Holiday	7 March – Dhuliyandan 22 March – Gudi Padwa	ianaraj jayanti	Jayanti 22 April - Ramzai	n Eid	ocular
1	End of Classes	-	December 19, 2022	110	UG and PG	nonday	30 March – Ram Navami 4 April – Mahavir Jayanti		1 May - Maharas 7 May - Buddha P	htra Din 'ournima	
2	Practical/Project/Seminar Examinations	December 20, 2022	December 23, 2022	04	UG and PG		7 April - Good Friday		29 June – Bakari	Eid	
3	Uploading Internal, Mid Semester, Practical, Project and Seminar marks on University portal	December 22, 2022	December 24, 2022	03	UG and PG			Contraction of the second	Dr Babasaheb An	Registi	AR Antiogical Ur
4	End Semester Regular & Supplementary Examination	December 26, 2022	January 21, 2023	26	UG and PG				Tal Mangson	ONER2 400 , Diet, Raiga	. 103. .d., (Maharash
5	Internship/Industrial Training#		1. 20	-	Esculturand			Carlos Carlos			

Fig. B.2.2.1a.: Academic calendar of the University 2022-23

		Samarth Educational Trust's Arvind Gavali College of Engineering, Satara Academic Calendar 2022-73 Term-I Term-I	Γ				Lip				Samarth Educational Trust's Arvind Gavail College of Engineering, Satara Academic Calendar 2022-23 Term-II				
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Fig. B.2.2.1b: Institute Academic Calendar 2022-23

	Samarh Educational Trust's Arvind Gavall College of Equivering: Academic Calendar 2022-23 Department: Electrical Engineering Term-I		1	Samarth Educational Trust's Arvind Gavall College of Engineering, Satara Academic Calendar 2022-23 Department: Electrical Engineering Term-II
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Fig. B.2.2.1c: Department Academic Calendar 2022-23

(03)



B. Use of various instructional methods and pedagogical initiatives

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-NPTEI	Local Cha	pter		Home	Downloads	Fee waiver +	Internship	Mentors •	NPTEL stars	Logout
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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.
 - In a group of 3-5 students, laboratory experiments are carried out for a subject like IoT.
 - Moodle is a significant ICT project of the Electrical department that is helpful for group learning. Quiz, assignments, and resource sharing are among the many activities carried out online.

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▶ S.Y.BTech				
T.Y.BTech				
▶ B-Tech				



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

(04)

C. Methodologies to support weak students and encourage bright students

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.



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Fig. B.2.2.1 i: Student Progress Diary 2022-23



Fig. B.2.2.1 j: Notice of Remedial Classes

Arvind Gavali College of Engineering Satara ACADEMIC YEAR: 2022-23 EVEN SEM DEPARTMENT OF ELECTRICAL ENGINEERING

Remedial lectures Schedule (Monday to Friday)

DAY Monday Subject	Faculty Name	TIME			
	S POINT Par		4	9:30am to 11:30 pm	
Date	05 June 2023	Power System Analysis	Ms. Ashlesha Mali	1:00 pm to 2:50 pm	
				3:00pm to 5:00pm	
DAY	Tuesday Subject		Faculty Name	TIME	
	The strength	A discourse and		9:30am to 11:30 pm	
Date	06 June 2023	Microprocessor and	Mr. Praveen H. Pawar	1:00 pm to 2:50 pm	
		Microcontroller		3:00pm to 5:00pm	
DAY	Wednesday	Subject	Faculty Name	TIME	
Date		State State State		9:30am to 11:30 pm	
	07 June 2023 E	Embedded System	Mr. Praveen H. Pawar	1:00 pm to 2:50 pm	
				3:00pm to 5:00pm	
DAY	Thursday	Subject	Faculty Name	TIME	
		DennerGustern		9:30am to 11:30 5pm	
Date	08 June 2023	Power System	Mr. Jivajee Bichkar	1:00 pm to 2:50 pm	
		Operation and Control		3:00pm to 5:00pm	
DAY	Friday	Subject	Faculty Name	TIME	
	The second s	Faulasadar		9:30am to 11:30 pm	
Date	09 June 2023	Engineering	Ms. Pooja Bhosale	1:00 pm to 2:50 pm	
		Mathematics-III		3:00 pm to 5:00 pm	
and the second se				the second se	

AMC Member

Dr. Vilas Pharande Principal

Principal Arvis - Gavali College of Engineering Panmalewadi, SATARA



Fig. B.2.2.1 k: 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.

SWAYAM-NPTEL Local Chapter				Home	Downlo	ads Fee	waiver +	Internship	Mentors -	NPTEL	a stars	Logout		
					Jul-Dec 20	23 Enroll	ment d	etails						
Excel S.no	Print	Email lá	Course Id	CourseName	College Roll Number	Mobile Number	City	Profession	Qualification	Degree	Department ⁽⁾	Search:	Motivation 0	Timelin
1	Sanket Ramesh Panhalkar	2001panhalkarsanket@gmail.com	noc23. es127	Cyber Security and Privacy	T2065451372020	+91 70386 63735	Setara	student	bachelor4yr	blech	Electronics and Communication Engineering	3		Jul-Dec 2023
2	Abhijit sudam pavshe	abhijeetpavshe063@gmail.com	noc23- cs109	Discrete Mathematics	2165451242011	+91 95271 26504	SATARA	student	bachelor3yr	btech	Computer Science and Engineering	3		Jul-Dec 2023
3	Abhijit sudam pavshe	abhijeetpavsbe063@gmail.com	noc23- cs123	Operating System Fundamentals	2165451242011	+91 95271 26504	SATARA	student	bachelor3yr	btech	Computer Science and Engineering	3		Jul-Dec 2023
4	Abhijit sudam pavahe	abhijeetpavihe063@gmail.com	noc23- cs127	Cyber Security and Privacy	2165451242011	+91 95271 26504	5ATARA	student	bachelor3yr	btech	Computer Science and Engineering	3		Jul-Dec 2023

Fig. B.2.2.1 l: NPTEL Enrollment

Table 2.2.1a: NPTEL Courses Chosen by Students of TY I	В. Т	Fech and	Final	Year B.
Tech (Electrical) for 2022 – 23				

Sr.	Timeline	Year	Courses Chosen by the Students
No.			
1	2022-2023	TY B.Tech	1. Electric Vehicles - Part 1
	011	(Electrical)	2. Smart Grid: Basics to Advanced
	Odd		Technologies
	Semester		3. Electrical Machines – II
			4. Smart Grid: Basics to Advanced
			Technologies
			5. Signals and Systems
			6. Digital Protection of Power
			System
2	2022 - 2023	Final Year B.Tech	1. Entrepreneurship Essentials
		(Electrical)	2. High Power Multilevel
	Odd	(,	Converters- Analysis, design and
	Semester		operational issues



This certificate is awarded to

VAISHNAVI RAJENDRA BHISE

for successfully completing the course

Smart Grid: Basics to Advanced Technologies

with a conso	lidated score	of 42 %	
Online Assignments	10.63/25	Proctored Exam	31.5/75

Total number of candidates certified in this course: 613



Fig. B.2.2.1 m: NPTEL Certificate



Fig. B.2.2.1 n: Conference Participation Certificate

epartment 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	Vaishnavi Rajendra Bhise	2022-23
2	Mohite Manasi Sharad	2022-23
3	Mahamulkar Prajakta Kalyan	2021-22
4	Bagal Poonam Anandrao	2020-21

Table	B.2.2.1b	: Best	outgoing	student
Labie	D . Z . Z . I . N	• DODU	vargonig	Staatilt

D. Quality of classroom teaching

- 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 o.: Student's Learning on Intelligent Interactive Panel

E. Conduct of experiments:

All laboratories of the Electrical engineering department are equipped with enough Electricals with essential software.

- 1. Each student performs experiments on hardware machine and an individual Electrical.
- 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 p.: Laboratory Session

(03)

F. Continuous Assessment in the laboratory

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.

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1	Laboratory Assessment (10)	Attendance (06)	Practical Esam (10)	Oral (06)	Total (30)		Labor Asses (1	atory sment D)	Attendance (05)	Exam (10)	Mock Oral (05)	Total (30)
CA1	ac	4	8	3	m. 6	CA	2 1	D	4	8	3	22

Fig.2.2.1 q. Laboratory Evaluation Sheet

G. Student feedback on the teaching-learning process and actions are taken (06)

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).

SAMARTH EDUCATIONAL TRUST ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA

Third Year Student Feedback

DEPARTMENT OF ELECTRICAL ENGINEERING

Month : 01 September To 19 December 2022 Total Responses : 24 Total Class Strength : 33 Feedback Percentage : 72.72%

SL. No.	SUBJECTS	Abr.	Name of Faculty	Abr.
01	Power System Analysis	PSA	Mr. Jivajee Bichkar	BJS
02	Microprocessor and Microcontroller	MM	Mr. Praveen H. Pawar	PHP
03	Power Electronics	PE	Mr. Somesha Naik S R	SRS
04	HVDC	HVDC	Ms. Ashlesha Mali	MAB
05	Embedded System	ES	Ms. Parvathi Islavath	PI





	PSA	ММ	PE	HVDC	ES	%
Thoroughly	15	16	6	17	16	58%
Satisfaction	9	8	15	6	8	38%
Poorly	0	0	3	1	0	3%
Indifferently	0	0	0	0	0	0%
Wont Teach at all	0	0	0	0	0	0%



	PSA	MM	PE	HVDC	ES	%
Always Effective	14	17	9	15	16	59%
Sometime effective	10	7	10	7	8	35%
Just Satisfactory	0	0	4	2	0	5%
Generally Ineffective	0	0	0	0	0	0%
Very Poor Communication	0	0	1	0	0	1%



	PSA	ММ	PE	HVDC	ES	%
Excellent	15	16	11	13	14	58%
Very Good	8	8	6	9	8	33%
Good	1	0	7	2	2	10%
Fair	0	0	0	0	0	0%
Poor	0	0	0	0	0	0%

3. How well were the teachers able to communicate



6. Was your performance in assignments/extra practice test discussed with you?



	PSA	ММ	PE	HVDC	ES	%
Every time	20	10	19	18	17	70%
Usually	4	6	4	6	7	23%
Occasionally	0	0	0	0	0	0%
Rarely	0	0	1	0	0	1%
Never	0	0	0	0	0	0%


8. The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth.



	PSA	ММ	PE	HVDC	ES	%
Significantly	13	12	10	12	11	48%
Very Well	10	11	12	11	13	48%
Moderately	1	1	1	1	0	3%
Marginally	0	0	0	0	0	0%
Not at All	0	0	1	0	0	1%







	PSA	ММ	PE	HVDC	ES	%
Every time	17	13	10	14	14	57%
Usually	7	11	14	10	10	43%
Occasionally	0	0	0	0	0	0%
Rarely	0	0	0	0	0	0%
Never	0	0	0	0	0	0%

I don't have mentor

0

0





0

0

0

0%

	PSA	MM	PE	HVDC	ES	%
Every time	18	16	13	15	16	65%
Usually	6	8	10	8	8	33%
Occasionally	0	0	1	1	0	2%
Rarely	0	0	0	0	0	0%
Never	0	0	0	0	0	0%





15. The institution makes effort to engage students in the monitoring, review and continuous quality improvement of the teaching learning process.



	PSA	MM	PE	HVDC	ES	%
Strongly Agree	14	14	11	13	15	56%
Agree	10	9	12	9	9	41%
Neutral	0	1	1	2	0	3%
Disagree	0	0	0	0	0	0%
Strongly Disagree	0	0	0	0	0	0%





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



	PSA	MM	PE	HVDC	ES	%
To a great extent	16	15	9	16	14	58%
Moderate	8	9	15	8	10	42%
Some What	0	0	0	0	0	0%
Very Little	0	0	0	0	0	0%
Not at all	0	0	0	0	0	0%





21. Give 3 observations/ suggestions to improve the overall teaching-learning experience of respective teachers.

- 1. Drinking water is not coming regularly.
- 2. Provide 2014 version/Higher version MATLAB software.
- 3. Microcontroller and Microprocessor Lab kits are not working properly.
- 4. Computer lab should be upgraded with advanced PCs.

Sub.	Abr.	Appreciation	Suggestions for improvement
PSA	BJS	 Arrangement of Industrial visit. Efforts on soft skill development of students. 	 Use ICT tools to clear the concept. Arrange some more Industrial visits.
MM	PHP	 Mentoring of activities is good. Student centric activities to build teams. 	 Syllabus coverage need to be improved. Use of ICT Tools for teaching.
PE	SRS	 Encouragement to build project skills among students. Student supportive. 	 Mini project need to be added in PE subject. Show the power electronics components during lecture to the students physically for clearing the concept.
VDC	мав	 Guidance on competitive examinations. Encouragement for participation in Extra-curricular activities. 	 Teaching method need to be improved. Animated videos are expected while teaching
ES	PI	 Student centric activities. More number of programs has been solved in ES subject. 	 Solve more programs in ES subject. Improve internal evaluation process.

Fig.2.2.1 r. Feedback Analysis

3/6/23, 5:11 PM	TY B.Tech Dece	mber - 2022 Theory Fe	eedback Department of	Electrical Engineering	AGCE, Satara		
TY B.Te Departm Satara	TY B.Tech December - 2022 Theory Feedback Department of Electrical Engineering AGCE, Satara						
Email * viveknikam4324@	Email * viveknikam4324@gmail.com						
1. How much of	1. How much of the syllabus was covered in the class: *						
	4 - 85 to 100%	3 - 70 to 84%	2 - 55 to 69%	1 - 30 to 54%	0 - below 30%		
PSA	۲	\bigcirc	0	0	0		

Fig.2.2.1 s. Online Feedback Form

HVDC MAB JI could learn the adhenced teaching medhed by Given the instruction output is a could learn the adhenced teaching medhed by Subject to chappe and at the instruction of the in	HVDC MAB JI could learn the advenced teading method by Green the instruction of conductions of PTEI decidency to deciding method by Green the instruction of conductions of teaching on the instruction of teaching to teach the instruction of teaching on the instruction of teaching on the instruction of the i	Sub.	Abr.	Action Plan for Improvement	Remark By HOD/AMC
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ADDITIONAL (1) Computer Lobo 1/4 nagroded with advanced (wides) - force system (5 tructure) - 10, 64-61+57 PCX. (2) Mattab 2014 & september hop been installed in 108 lds with new features.	ADDITIONAL (1) Computer Lolo IX regionded with addressed with from system Computer Lab & experiments -10.64-647 PCA. (a) Matlab 2014 a sufficience how been installed in 108 lds with new fartures. (a) Matlab 2014 a sufficience how been installed in 108 lds PRINCIPAL Markenswith IR Bridge Bringering PRINCIPAL	ES	Ы	> a could salve more number of microcontroller program's to make the scholarter perfection as I could improve the evaluation process by giving outgoments	Number program of an No. & example were enplayed to greate they
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Fig.2.2.1 t. Feedback Analysis and Action Taken

2.2.2. Quality of Internal Semester Question papers, Assignments, and Evaluation (20) (*Mention the initiatives, implementation details, and analysis of learning levels related to quality of semester question papers, assignments, and evaluation*)

A. Process for internal semester question paper setting and evaluation and effective process implementation (05)

Electrical 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: Examination Notice

Day & Date	Class	Subject Name	Objective Exam Time	Description Frame Ten
07 November 2022	SY Btech	Engineering Mathematics-III	(Moodle)	Construction of the
	TY Blech	Power System analysis	10:00 AM to 11:59 PM	4:00 PM to 5:00 PM
08 November 2022	SY Btech	Electrical Machines-I		
	TY Btech	Microprocessor and Micro Controller	10:00 AM to 11:59 PM	4:00 PM to 5:00 PM
09 November 2022	SY Btech	Electrical and Electronics Measuremt		100
CONCOMPLET 2022	TY Brech	Power Electronics	10:00 AM to 11:59 PM	4:00 PM to 5:00 PM
	SY Btech	Engineering Material Science		1
10 November 2022	TY Btech	Embedded System	10:00 AM to 11:59 PM	4:00 PM to 5:00 PM
11 November 2022	TY Btech	HVDC	10:00 AM to 11:59 PM	4:00 PM to 5:00 PM

Fig. B.2.2.2.d: Examination Time Table

	DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONEF	ε	SET-1			
	Arvind Gavali College Of Engineering Satara					
	Even Sem 2022-23					
	CA-1 Examination (Descriptive) – March 2023					
	Course: B.Tech in Electrical Engineering Sem: VI					
	Subject Name: Elexible AC Transmission System Subject Code: BI	EEPE604A				
	Max Marke: 12 Date: - 24/02/2022 Duration: - 20 M					
	Max Marks. 12 Date: 24/03/2025 Duration 50 Mil					
	Instructions to the Students: 1 All Questions are compulsory					
	2. Assume suitable data if necessary					
	3. Figures to the right indicate full marks					
	 Use of Programmable Calculator is Not Allowed 					
		0				
		(Level/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)	With a relevant single line diagram explain the flow of power both in	Level-2/CO 1				
	parallel path and meshed network.					
(B)	With a relevant schematic diagram discuss the HVDC transmission	Level-2/CO 1				
	system.					
Q. 3	Solve Any one of the following.					
(A)	With a relevant circuit diagram and switching sequence demonstrate	Level-3/CO 2				
	the six pulse converter.					
(B)	With a relevant control characteristic curve demonstrate the basic	Level-3/CO 2				
	control characteristics of converter.					

Fig B.2.2.2.e: CA-1 Question Paper

B. The process to ensure questions from outcomes/learning level perspective (05)

- 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

- 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 A	MBEDKAR TECHNOLOG	ACAL UNIVERSITY, I	ONERE	Set-1
		Arvind Gavali College of Engine	eering, Satara		
	Mid Ser	mester Examination (Descrip	ptive) – April- 2023		
	Course: B. Tech in Electr	ical Engineering	Sem: VI		
	Subject Name: Flexible A	C Transmission System	Subject Code: B1	TEEPE604A	
	Max Marks: 20 Date:-27/04/2023 Duration:= 60 Min.				
	Instructions to the Students 1. All Questions are con 2. Assume suitable data 3. Figures to the right i 4. Use of Programmable	: npulsory if necessary ndicate full marks e Calculator is Not Allowed			
Q. 1	Objective Questions (Solve (Unit:-3, 25 Question, and)	d on Moodle) Juit: 4, 25 Question)		(Level/CO)	4 Marks
Q 2	Solve any two of the followi	ng Questions.			4 X 2
(A)	With a relevant single line	diagram and characteristic cu	rves demonstrate the	CO-2	
	mid-point voltage regulation	on in shunt compensation.			
(B)	With a relevant single line	diagram and characteristic cu	rves demonstrate the	CO-2	
	voltage stability and transi	ent stability in shunt compensa	ation.		
(C)	With a relevant single line Thyristor controlled and T	diagram and characteristic cu wristor switched reactor.	rves demonstrate the	CO-3	
0.3	Solve Any One of the follow	ina			931
¥.5	With a selectent single line	diamon and VI annual and	in and analyze the	CO 2	0.11
(A)	working of TSSC.	diagram and v-i curves expla	in and analyze the	0.0-3	
(B)	With a relevant single line	diagram and V-I curves expla	in and analyze the	CO-3	

Fig B.2.2.2.f: MID Sem Question Paper

Internal assessment tools (Direct) are: Table 2.2.2a 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

- 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.

(05)

Dr. Babasaheb Ambedkar, Technological University, Lonere Arvind Gavali College of Engineering.Satara (Inst. Code: 6545) Even Sem (2022-23) Department: Electrical Engineering Class: TY B.Tech Subject: Flexible AC Transmission System (BTEEPE604A)

Assignment No: 1

Published Date: 20/03/2023 Submission Date: 24/03/2023

	Q.1)	With a relevant single line diagram discuss the three types of HVDC links.	CO-1	[6 Marks]
1				

Somestander SR

Name & Sign of Faculty Prof. <u>Somesha Naik</u> S R Assistant Professor, Electrical Engineering

Dr. Babasaheb Ambedkar, Technological University, Lonere Arvind Gavali College of Engineering, Satara (Inst. Code: 6545) Even Sem (2022-23) Department: Electrical Engineering Class: TY B. Tech Subject: Flexible AC Transmission System (BTEEPE604A)

Assignment No: 2

Published Date: 20/03/2023 Submission Date: 24/03/2023

+++

C

2.1)	With a relevant single line diagram Demonstrate the combined shunt and series connected FACTS controllers.	CO-2	[6 Marks]

92 descriptiones

Name & Sign of Faculty Prof. Somesha Naik S R Assistant Professor, Electrical Engineering

Fig B.2.2.2.g Assignment with CO relevance

		Dr.Babasaheb Ambedkar Techr	nologica	l unive	rsity,Lo	onere								
		Samarth Educati	ional Trus	st's	_									
	Arvind Gavali College of Engineering Satara Result Analysis CA1 Exam 2022-23													
	Result Analysis CA1 Exam 2022-23													
				1										
	Class:- TY	Sem: V Subject: Power Electronics (BT	EEC 503] De	partment		<u> </u>							
			Obje	ctive		Desc	riptive		Assig	nment	CA-11	FOTAL		
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 (B)- 06 Marks	Assig nmen t No 1 (12 Marks	Assig nmen t No 2 (12 Marks	CA-1 TOTA L (38 MARK S)	CA-1 TOTA L (10 MARK S)		
		Maximum marks	1	1	6	6	6	6	12	12	38	10		
			CO-1	CO-2	CO-1	CO-1	CO-2	CO-2	CO-1	CO-2				
1	"2165451293001"	CHAVAN ADITYA MADAN	1.0	1.0	6		5		12	12	37	10		
2	"2165451293002"	DESHMUKH ANKITA ANIL	1.0	1.0		6		5	11	11	35	9		
3	"2165451293003"	SHIRKE DEEP NANDKUMAR	1.0	1.0	3		5		12	12	34	9		
4	"2165451293004"	DESALGANESH JAGANNATH				6		5	10	10	31	8		
5	"2165451293005"	WADKAR KARTIK AJIT	0.0	1.0	3		5		12	12	33	9		
6	"2165451293006"	BAUT MAHESH HANMANT	0.0	0.0	4		4		11	10	29	8		
7	"2165451293007"	PAWAR MAYURI VILAS	0.0	1.0	5		6 /	bad	11″.	11	34	9		
8	"2165451293008"	KASURDE OMKAR SANDEEP			4		3 🤇	^y	U 11 U	/ 11	29	8		
9	2165451293009"	KADAM ROHIT RAVINDRA		L	4		5	·	12	12	33	9		
10	"2165451293010"	KADAM ROHIT VISHWAS	1.0	1.0	4			4	11	11	32	8		
11	"2165451293011"	KATKAR RUTUJA BABASO	0.0	1.0	4			4	12	12	33	9		
12	"2165451293012"	BABAR SAURABH SURYAKANT			5			4	12	12	33	9		
13	"2165451293013"	CHAVAN SHRAVANI PRADIP	1.0	0.0	4			3	8	8	24	6		
14	"2165451293015"	KUMBHAR SHWETA SAYAJI	1.0	1.0	2			2	10	11	27	7		
15	"2165451293016"	PAWAR SNEHAL SUNIL	1.0	1.0	3			3	8	8	24	6		
16	"2165451293017"	SHILEWANT TEJAS VITTHAL	0.0	1.0	5			2	8	8	24	6		
17	"2165451293018"	INDALKAR TEJAS CHANDRAKANT	1.0	1.0	4		2		11	11	30	8		
18	"2165451293019"	BHISE VAISHNAVI RAJENDRA	1.0	1.0	1				9	9	21	6		
19	"2165451293020"	KUMBHAR VARSHA JOTIRAM	1.0	0.0	3		3		12	12	31	8		
20	"2165451293021"	NIKAM VIVEK SANTOSH	1.0	1.0	5		5		8	8	28	7		
21	"2165451293022"	BODAKEYASHRAJKESHAV	1.0	1.0	4		1		8	8	23	6		
22	"2165451293501"	NIKAM ADITYA PARAG			3		3		10	10	26	7		

Fig B.2.2.2.h Assignment Evaluation Record

2.2.3. Quality of student projects

(Quality of the project is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type (application, product, research, review, etc.), and standards. Processes related to project identification, allotment, continuous monitoring, and evaluation including demonstration of working prototypes and enhancing the relevance of projects. Mention Implementation details including details of Pos and PSOs addressed through the projects with justification)

A. Identification of projects and allocation methodology to Faculty Members (03)

Students carry out a mini project in the fourth semester and a major project in the seventh and eighth semesters. Department follows standard procedures to ensure the quality of the project. The student selects a project domain in line with their interest. Students are encouraged to do a real-time project. Department and R& D head guides, the student to select domain by sharing with them various project domains like (not limited to)

- a) Power System
- b) Internet of Things
- c) Automation
- d) Power Electronics & Drives
- e) Renewable Energy sources
- f) Power Electronics

Project groups are formed by the student themselves accordingly to their area of interest, if they are not able to form a group then the project coordinator helps them to form a group.

A. Project Identification & guide allocation methodology

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.

(03)

- 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.
- 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

п	SAWKAR INSTITUTE	dited ROJECT :	D GAVALI CO partment of <u>eved</u> PRO Arduino I	SAMARI LLEGE O Dical ED JECT P Based Ge	FENGINEERING C Sideering Academ ROGRESS SHEE	57 St POLY Nic Year : 2 ST Vel inve	TECHN 10 2 2 1 20 2	IIC, sataj ³ No. 0	RA 198
E-ma Cont	Name of Ono Si Sh all ID. act No. 876	Student : arad Mohite 6829200	Address :	by	Name of Alumni Me Shubham shedge E-mail ID.: Contact No: 738500765	ntor s@gmail.ea 8	Prof. S E-mail ID Contact N	Name of Gu lanasha N Somethan	ide: 101% & R 101% 001@M 1589.85
Neek	Date	Тор	ic Discussed		Task Assigned	Industrial Mentor Signature	Alumni Mentor Signature	Guide Signature	Project Co-ordinator Signature
1,	12/02/023	To discuss	about Project	study ab	out objective of		Shul hag-	Somhardry	1 pot
2	C. Const.	idea.		the P	roject,			-	
3,	Sec. 1	S. HACE	Well and the second	Northering of	CALL STATE VILL			THE THE	4
4	18/02/023	Discuss at	pout objective of	study al	pout reference Paper		Ihubbar	fortheren	-6-9
5.		the Pro	ject .	related	to Project.		Part and	- Alexander	
3.			Green Bleen		Chan I have been been been been been been been be	19111501	Che III -	A A 10 F	- at
7.	2 6 102 / 023	Discuss al	sout Project	study ab	-	Jushan	Jonstrach	eng	
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Bra B	Committee 1		Stand Street	Popers 7	elated to project	1.42	an and	Change I	ASS STREET

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103/023	methodology Discuss about circuit diagram	of the Project.	Sec.	STATISTICS.	NAME OF BRIDE	and the second se
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in a company	of Project	Project		1042	U.S. I.S. I.S. I.S. I.S. I.S. I.S. I.S.	
and the second second	STATES STATES AND STREET		and spec			C
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2 Martin	and working of component	switching of switches.	and the	-		AS VERSE
Charles .					Share B	de la
1031023	Discuss Algorithm for working	Study about Program for	-	Shubbas	ferstalait	6.4
54 S	of switches	switching at switches	N. SATA		and the state	ALL AND THE
200			Silver B	- Sheet	Contraction of the second	-
1023	piscuss Arognam for	Burning of Program for	and the second	Theburg	formhartack	brit
1	switching of switches	Project	115.24		1000	Server Street
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0	correction in Project	Paper.	1	S. Angle		A SAULA
hast	CONTRACTOR .		1999	1.76	The state of	Shin Shin
	1023 C	ond working of component objects assuss Algorithm for working of contributions lots assuss Aregnam for scottching of switches lots assust and updates for operating sincult lots assuss south and updates correction in Project HOD Signature HOD Signature	ond working of component switching of switches. colors owned by about Program for of switches switching of switches low of switches cwitching of Arogram for switching of switches Project. low operating states study about ewitching circuit for operating sincuit and reference paper, result low operating since paper. low operations in Project Paper. with the project paper.	ond working of component switching of switches. Colors Discuss Algorithm for working study about Program for of switches switching of switches low discuss Arogram for Burning of Aragram for switching of switches Project. 1023 Discuss switching states study about excitching circuit for operating states study about excitching circuit for operating states study for making conference correction in Project Paper, result HOD Signature HOD Signature	ond working of component excitching of switches. Colored ousses Algorithm for working study about Program for Indexed of excitches excitching of switches Low of excitches Project Low operating states excity about excitching circuit Indexed for operating states excity about excitching circuit Indexed Row operating states excity about excitching circuit Indexed Row operating states excity about excitching circuit Indexed Row operating states excited and reference Papor, result Row operating struct and reference Papor, result Row operating struct Paper.	ond working of component switching of switches. Collect assuss Algerithm For working Study about Program for Indeed for the formation of switches switches witches and for the switches for the switching of switches for the switching of switches for the switching of switches for the switching enclosed for the swit

Fig B.2.2.3.b: Project Progress Sheet

B. Types and relevance of projects and their contribution towards the attainment of POs and PSO (05)

Power System, Automation, Internet of Things, Power Electronics & Drives, Renewable Energy sources and Power Electronics are the major domain of project development in the Electrical engineering department.

Project Domain	No. of Project in each domain									
	2022-23	2021-22	2020-21	2019-20						
Power System	00	04	06	03						
Renewable Energy source	02	03	00	01						
Internet of Things	01	06	08	01						
Power Electronics	01	01	00	00						
Automation	02	02	00	00						
Power Electronics & Drives	02	01	05	04						
TOTAL	08	17	19	09						

Table	2.2.3.a	Project	Categories	
-------	---------	---------	------------	--



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 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 real-life 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

							9					
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	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

Table 2.2.3.b Project CO-PO Mapping

CO - PO Mapping Of Project

Strength of Correlation: High - 3, Medium - 2, Low - 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):

Group No	Project Name	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PS01	PSO2
PR1	Voice Controlled Robotic Vehicle	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
PR2	Self-Balancing Robot	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
PR3	Battery Swapping System For Electrical Vehicle	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR4	Arduino Based Five Level Multi Level Inverter With Resistive Load	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR5	Iot BASED SOLAR POWER PLANT AUTOMATION	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR6	Solar Operated Mobile Pestiside And Fertilizer Sprayer	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR7	Aumatic Drip Irrigation System Using Microcontroller	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR8	Triac Based Wireless Single Phase Induction Motor Speed Controller Using Microcontroller	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

Table B.2.2.3c Mapping of Projects (PR1-PR8) with PO and PSO

CAYm1 (2021-22) :

Table B.2.2.3d M	apping of Pi	oiects (PR1-	-PR17) with	PO and PSO
	upping vi i i		1 111/ // 101	

Group	Project Name	1	12	3	14	5	96	7	8	6	10	11	[2	01	02
NO		PC	PO	PO	Ы	P]	PSC	PSG							
PR1	Enhancement to DP Transformer Theft Monitoring System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR2	Child Safety Wearable Device	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR3	Designing and Analysis of AC Power Control by Programmable Interface	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR4	Design and Installation of High Capacity Centralized Coolant Pump for Optimization of Power Using VFD Controller	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR5	IOT based Solar Monitoring and Control	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
PR6	Wireless robotic vehicle to supply food and medicines to covid-19 patients.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR7	AI - Based Touchless Attendance System for School, Colleges after COVID-19 Situation with Temperature, Oxygen Level, Face Mask Detection	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR8	To Design and Develop Prototype for Industrial Cobot	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR9	Ultra Fast Circuit Breaker Using Arduino for Overload Protection	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR10	Design and Implementation of Manual rotation of Solar Plate for Maximum Energy Output	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR11	Solar Tracking System Using Arduino	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y
PR12	E - Lite Bicycle	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR13	Automatic Car Parking Using Arduino System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR14	IOT Based Smart Public Ration Distribution System	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
PR15	Robot for Waste and Garbage Collection in Water	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR16	Design and Implementation of Manual rotation of Solar Plate for Maximum Energy Output	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y
PR17	Analysis and Implementation of Solar Tracking System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

CAYm2 (2020-21):

Grp	Project Name														
No		PO1	PO2	PO3	PO4	PO5	906	PO7	PO8	PO9	PO10	P011	P012	10Sd	PSO2
PR1	Underground Cable Fault Detection Using IOT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR2	IoT-Based Smart Energy Management System of Electrical Vehicle Charging Station	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR3	Reverse rotation controller for rotating equipment	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR4	IoT-Based induction motor monitoring system	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR5	Automatic Power factor controller	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR6	Iot Based Smart Energy Meter Monitoring and Billing System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR7	IoT-Based Military Surveillance Robot	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR8	IoT-Based Work Data Recorder for Big Vehicles	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR9	4KW Solar Control Panel Designing and Mounting	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR10	ON-Grid 4KW Solar Lighting Power Plant Installation	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR11	Induction Motor Rotation in Bidirectional through a Remote Control Device	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR12	Power Distribution Station Monitoring System Using IoT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR13	IoT-Based Water Distribution Monitoring System in Apartments	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR14	Li-fi Data Transmission System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR15	Track Charging System for Electric Vehicle	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR16	4KW Solar Control Panel Designing and Mounting	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR17	Industrial Automation Using WiFi (Earlier Industrial Automation Using IoT)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR18	Priority-wise Power Distribution and Safety Controller Monitoring System Using IoT	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR19	Energy Regenerative Braking of BLDC Motor by Using Super Capacitor in EV Application	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

(05)





Fig B.2.2.3.c: 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	C01,C02,C03

 Table B.2.2.3 h: 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

	Samarth Educational Trust											
	Arvind Gavali College of Engineeering											
	Project Phase I Internal Evaluation Sheet											
		Electrical Engineering										
			/	Academic Y	'ear 2022-2	023						
				1			2			3		
Domain	Name	Title of the Project	Applied Engineering Knowledge (5)			Problem Analysis (5)			Effectiveness of Communication (5)			
			Guide (5)	HOD (5)	Reviewer	Guide (5)	HOD (5)	Reviewer			Reviewe	
					(5)			(5)	Guide (5)	HOD (5)	(5)	
	Ghate Harshali Vijay	Voice Control Robotic Vehicle	3	4	5	4	3	3	4	3)	
	Galave Goraksh Shivaji		4	4	4	4	3	3	5	3)	
Electrical Vehicle	Jadhav Pratiksha Shashikant		4	4	3	3	5	4	5	4)	
	Jadhav Pooja Jaysing		5	4	4	4	5	4	4	4)	
	INDULKAR KAILAS VIJAY		4	4	3	4	4	5	4	4	5	
	MEMANE TUSHAR DATTATRA	SELE DALANCING BODOT	4	4	4	4	4	3	4	4	4	
Robot	TIRMARE PRASAD RAJESH	SELF BALANCING ROBOT	4	4	5	4	4	4	5	4	4	
	JADHAV AMRUT SUHAS		4	4	4	4	4	4	4	5	4	
	THE PROPERTY AND A DESCRIPTION OF THE PROPERTY AND A								-			

Fig B.2.2.3.d Project Evaluation Record

The process to assess individual and team performance

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.e: Student Performance Evaluation Mechanism

E. Quality of completed projects/working prototypes

(05)

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.

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

Table B.2.2.3 i: Best Project Evaluation Scheme

CAY (2022-23):

Table B.2.2.3 j. Three Best Project

Group No	Name of Student	Name of Guide	Title of Project
PRGROUP-04	Mohite Manasi Sharad Lokare Saujanya Suresh Jadhav Akanksha Shashikant Yadav Sanjay Ganesh	Prof. Somesha Naik S R	Aurdino based Seven Stage Multi level Inverter
PRGROUP-07	Vaishnavi Mahadik Praveen Suravashi Ashok S. Patil Rajeshwari Sonawane	Dr. Nayak B. M.	Automatic Drip Irrigation System using Microcontroller and Electrical devices
	Patil Harshal Prashant		

	Tarade Shweta Tukaram		Solar Operated Mobile
PRGROUP-06	Herkal Aditya Rajendra	Prof. Somesha	Pesticide and Fertilizer Sprayer
	Ankita Sanjay Jadhav	Naik S R	

CAY m1 (2021-22):

Group No	Name of Student	Name of Guide	Title of Project
PRGROUP-01	Rao Archana Bhoite Nilam	Dr. Mirajkar G.	Enhancement to DP Transformer Theft Monitoring System
	Thorat Shraddha		Womening System
	Monde Komal		
	Shingate Shital		Design and Installation
PRGROUP-04	Pawar Mayuri	Dr. Nayak B. M.	of High Capacity
	Jadhay Asayari		Centralized Coolant
	Jaunav Asavan		Pump for Optimization
	Devkar Komal		of Power Using VFD
			Controller
	Shivanjali Jadhav		Robot for Waste and
PRGROUP-15	Kavita Shinde		Garbage Collection in
	Divya Velapure	Prof. Chavan S. G.	Water
	Pratiksha Bhosale		

Table B.2.2.3 k. Three Best Project

CAY m2 (2020-21):

Group No	Name of Student	Name of Guide	Title of Project
PRGROUP-3	Dede Pradip Ankush Tikudave Akshay Dhondiram Lokhande Akshay Hanmant Garud Ashish Adhikro	Prof. Nayak B. M.	Reverse rotation controller for rotating equipment
PRGROUP-6	Pawar Sanchita Nanaso Pooja Sanjay Chavan Bagal Poonam Anadarao Lawand Amruta Shivaji	Dr. Mirajkar G S	lot Based Smart Energy Meter Monitoring and Billing System
PRGROUP-10	Karande Piyush Naresh Kakade Rushiraj Rajiv Masal Shankar Maruti Pawar Sushant Vinayak Gujar Tejas Sharad	_ Prof. Eva Gupta	ON-Grid 4KW Solar Lighting Power Plant Installation

 Table B.2.2.3 l: Three Best Project



Figure B.2.2.3.f : Intra-College Project Competition







Figure B.2.2.3.g: Project assessment by Industry Experts


Figure B.2.2.3.h: Photo of Best Project (Aurdino based Seven Stage Multi level Inverter)



Figure B.2.2.3.i: To Design and Develop Prototype of Industrial Cobot

F. Evidence of papers published/Awards received by projects etc.

(02)

Sr. No.	academic year	Name of the Competition	The number of students who participated
1	2022-23	National Level project competation	02
	2022 25	"Techno-Sci 2k23" held at	02
		Marathwada Mitramandal's Institute of	
-		Technology, Lohgaon, Pune	
2		National Level project competition	04
		DN I ANA VISHKAK 2K25 neid al	
		ENGINEEDING & TECHNOLOGY	
		Sajjangad Road, Satara	
3		National Level project competition	
5		"CRETECHNOVA 2k23" held at	01
		SVPMs College of Engineering, Malegaon.	
4	2021-22	Monitoring and controlling of Solar power	04
		plant Based on IoT. IJARSCT Volume 2,	
		Îssue 2 July 2022.	
5		Design and Installation of High Capacity	04
		Centralized Coolant Pump for Optimization	
		of Power Consumption using VFD	
		July 2022.	
6		Internal Hackthon of Smart India Hackthon 2022) 28/04/2022	04
7		National level project Copitation- BVPROTECH 2022 at	02
		Bhartividyapeet Deemed be University	
		College of Pune	
8		National Level project compitation "KJSIEIT ENTECH 2K22"	01
		KJ Somayya Institute of Engineering and	
		Information Technology	
9		Quantitative Aptitude at Bharat Ratna	01
		Indiragandhi College of Engineering,	
1.0		Solapur	
10	2019-20	AVISHKAR 2019-2020	04
		Lonal Level Competition by Shivaji	
11		23rd Maharastra Sate Interuniversity Sports	01
		Meet 2019-20, DBATU Lonere	

Table B.2.2.3 n. Awards in Project Competition



Figure B.2.2.3.j: Conference Paper Publication Certificate



Figure B.2.2.3.k: National Level Project Competition Participation & Prize



Figure B.2.2.3.1: National Level Project Competition Participation & Prize

2.2.4. Initiatives related to industry interaction

(Give details of the industry involvement in the program such as industry-attached laboratories, partial delivery of appropriate courses by industry experts, etc. Mention the initiatives, implementation details, and impact analysis)

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

B. Industry involvement in program design and partial delivery of any regular courses for students(05)

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.
- 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	Date of	No. of
	Year		Visited	Visit	Students
1	2022-23	2020-21	HVDC	25 th	30
			Substaion,Padghe	Nov	
				2022	
2	2022-23	2020-21	AG Electro Services,	13 th Apr	32
			Karad.	2023	
3	2021-22	2018-19	Urmodi Hydro Power	22 th	
			plant, Parli Satara	Dec	42
				2021	
4	2021-22	2018-19	132/33KV Substation	9 th Dec	
			Ambheri & Morries	2021	42
			Energy Ltd., Aundh		

Table B. 2.2.4 a. 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

	STUDENT'S FEEDBACK FORM OF INDUSTRIAL VISIT/ TRAINING/ INTERNSHIP
	1. Impact/ learning experience of the student from the visit/ training/ Internation *
	O Excellent
	O Very Good
	O Good
	O Moderate
	2. How do you rate the working as a team member *
	O Excellent
	O Very good
	O Good
	O Moderate
	10. Live Projects Handling *
	O Excellent
	O Very good
	O Good
	O Moderate
	11. Suggestions if any
	Your answer
1	Submit Clear form

Figure 2.2.4 a: Format of student feedback on industrial visit

b. Invited Industrial Talks- Resource person from industries in the specific domain of Electrical 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:

Sr. No.	Name of Company	Authorized Person	Duration
1	Skill and Career development Training program, Sangali	Mr. A. A. Shaikh	08 th August 2018- 08 th August 2025
2	Ravi Electricals, Satara	Mr. Mohite Dhananjay M.	4 th Feb 2020-4 th Feb 2025
3	Siddheshwar Electricals	Mr. Karande Rupali Naresh	3 rd Jan 2020- 3rd Jan 2025

Table B	. 2.2.4	b. I	[ndustrv	Institute	MOUs
I UNIC D	• _•_•		ind doth y	monute	111005



A NUMBER OF CONTRACT OF CONTRACT.	
A ALLANDIN NY	
It is understood by the Parties haven this to experitive of each party and hence notifier part or obligations arising hereundes, either whole	OU is based on the professional competence and ty that transfer or assign this Agreement, or rights
10. SIGNED IN DUPLICATE	a second s
This MOU Is executed in duplicate with each a basing equal legal validity.	mpy terry an official version of the Agramment and
BY EXCHING BELOW, the parties, acting by Memorandum of Understanding to be exec- written.	they duty authorized selfavors, have samed this ated, effective as of the day and year fest above
On behalf of Arvind Gavali College of Engineering Panmalewards STITLE Satara - 415015 Arvind Gavali College of Engine	On benati ur Sietcheshaur Electricals, Post Surgan, Mahali Phota, Satara-413003 Sividhushmiyr Elec.
w 194 participante	Proprietor
Name 131. VICAS A	nume : kominde Rupol Horrest
Date explosion	000 104/02/2020 -
Winen	Wilness
1 production	1 Grande
2 assungt	= AK

Figure 2.2.4 e. MOU

f. Impact analysis of industry-institute interaction and actions are taken thereof(05)



Figure 2.2.4 f: Patent filed by Piyush Karande

Table B.2.2.4.c :	: Initiatives	related to	Industry	Interaction
--------------------------	---------------	------------	----------	-------------

Sr.	Industry	Industry Involved	Outcome	Impact Analysis
No	Interaction			
	Initiative			
	Invited Talks from	Conducted guest	Students	Enrichment of
1	Industry Experts	lecture on PLC key	understood the	knowledge as
1		Products in Industrial	PLC	per current
		Automation	architecture and	industry needs
			ladder language	
			programming	
2	Invited Talks from	Conducted guest	Students got	Placement of a
	Industry Experts	lecture on Career	knowledge	student in
		scope for Industrial	about the PLC,	Industrial
		Automation	SCADA & VFD	Automation
				industry

r				
3	Invited Talks from	Conducted Online	Understanding	Students aware
	Industry Experts	Webinar on Hybrid	about Hybrid	how to start
		Electrical Vehicle	vehicle	career in HEV
		Technology	technology	
4	Industrial Visits	Sunmitra Solar Pvt.	Study of Solar	Enhance
		Ltd. Satara	PV system.	Students
				knowledge about
				solar panel
				designing and
				application
5	Industrial Visit	132/33KV Substation	Study of	Enhance the
		Ambheri and 10MW	electrical energy	practical
		Morries Energy Ltd.	generation and	knowledge and
		Aundh	controlling by	understanding of
			Renewable	theoretical
			Sources	concepts
6	Industrial Visit	HVDC	Students are	Enhanced the
		Substaion,Padghe.	able to Design	practical
			the Converter	knowledge and
			Layout	Inline to this
				students
				developed the
				Inverter project.

Photographs of Industry Interactions



Figure 2.2.4 g: Industry Visit at Sunmitra Solar Pvt. Ltd. Satara



Figure 2.2.4 h: Industry Visit at AG Electro Services, Karad.



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:

- 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. No	Company Name
1	400 KV Receiving Station, Karad
2	Maharashtra State Electricity Distribution Co. LTD
3	SP Electrical, Pune
4	Khare Elec-Transformer
5	Pawar Electrical & Electronics Works
6	M/s Shri Vishnudev Electricals
7	Precise Control
8	Chavan Electrical
9	Shree Dhananjay Electricals
10	MSEDCL Marali
11	Spectrum Software Satara
12	USAS Solution, Satara
13	Dr. Babasaheb Ambedkar Sahkari Sakhar Karkhana Ltd. Arvindnagar
14	KSB Limited, Kesurdi-Khandala
15	Green power sugar ltd.satara
16	Ajinkya Electro system, satara
17	Bhairavnath Electrical and Motor winding, Wai
18	Y.M.krishna S.S.K.Ltd Rethre
19	Girish Electrical and Services ,Satara
20	KSB.ltd Shirval

Table B 2.2.5 a: Industry Interaction Details

21	Jayprakash Engineers Kolhapur
22	Sagaon Energy Equipment pvt.ltd,Satara
23	Mahavitran, Gargoti
24	Sidheswar Electricals,Satara
25	Mahavitran, Kavate-Mahakal
26	Brisk Facilitirs pvt.ltd,Kolhapur
27	Dalmia Bharat Sugar ,Kolhapur
28	A.G.E. Motor ,Karad
29	Shivprasad Industries, Karad
30	Ashtvinayak Electricals and Rewinding ,Kavate-Mahakal
31	Mahavitran ,Patan
32	Tejas Electrical, Pune
33	Mahavitran ,Patan
34	YMKSSK, Retati
35	Yashita Automative Engineering, Wai
36	Rajaram Bapu Sahakari Sugar Factory,Sangali
37	Kumar Electrical ,Bhunj
38	Tarlekar Electric Works,Sangali
39	Indrajeet Power lines,Baramati
40	Chandrasen Electricals & Company Satara
41	Sai Service Electrical pvt ltd ,Shiroli
42	Pawar Electrical and Motar Winding, Wathar Station

43	Becon Gear transmission Satara
44	Generl Electric India Industrial pvt
45	inYantra Technology pvt.ltd
46	New Pawar Electronics
47	Lucas TVS Chakan
48	dana Anada India PVT.LTD
50	Centurion university Of management
51	Pragati Electrical Pvt.lmt
52	Shri Sai Vidut udyog
53	Samadhan Electricals Malashiras
54	Spark automesion Karad
55	IBM Electrical And Engi Solapur
56	Smart Pro System
57	TE Connectivity Shirval
58	Electra Solar System, Satara
59	Accurate Lesser Work & Engg Pvt Ltd, Pune
60	Prompt Industrial Services Pvt ltd, Pune
61	Sulzer India Pvt Ltd, Pune

Sr.No	Name of the Candidate (2022-23)	Name of the Company
1	LOKARE SAUJANYA SURESH	PV Clean Mobility
2	GHATE HARSHALI VIJAY	ATB corporation
3	NIKITA SURESH KENJALE	Innovation Electrosoft (I) PVT Ltd
4	KATKAR PRATIK BABURAO	Shreeram Electromech
5	MOHITE SALONI DATTATRAY	pv clean mobility
6	JADHAV AKANKSHA SHASHIKANT	Innovation Electrosoft (I) PVT Ltd
7	YADAV SANJAY GANESH	Kinetic communication pvt Ltd
8	MOHITE MANASI SHARAD	Innovation Electrosoft (I) PVT Ltd
9	JADHAV AKANKSHA PRADIP	PV Clean Mobility
10	GALAVE GORAKSH SHIVAJI	PV Clean Mobility
11	JADHAV POOJA JAYSING	Rieder India Pvt Ltd , Shirval
12	SABLE SHUBHAM RAVINDRA	PV clean Mobility
13	JADHAV PRATIKSHA SHASHIKANT	PV clean Mobility
14	ASMITA SUNIL KAMBLE	General Industrial Controls Pvt Ltd
15	SHELAR SHAILESH DATTATRAY	Suvarna Electricals Pvt Ltd.
16	TIRMARE PRASAD RAJESH	Ajinkya Electronics Pvt Ltd.
17	MEMANE TUSHAR DATTATRAY	Raj Comp Tel LLP.
18	INDULKAR KAILAS VIJAY	IDEMI Mumbai (MSME)
19	MAHADIK VAISHANVI RAJENDRA	sanspots Pvt ltd
20	SONAWANE RAJESHWARI RAJAN	Harman international pvt.ltd
21	SURAVASHI PRAVIN RAMACHANDRA	M/S. Abhijeet Electricals Kolhapur
22	SHINDE ABHIJIT BHARAT	suzlon Global limited service
23	ANKITA SANJAY JADHAV	Indotech precision engg works pvt ltd
24	JADHAV OMKAR RAVINDRA	Bajaj auto pvt ltd
25	TARADE SHWETA TUKARAM	Yashita Automotive Pvt Ltd.
26	KADAM RAJESH DILIP	Telstra pvt ltd pune
27	Gore Sonali Kundalik	Cummins India Pvt Ltd, Phaltan
28	KAWAR PRASHANT SAKHARAM	Adani Electricity Mumbai Limited
29	PATIL HARSHAL PRASHANT	Yashita Automotive Pvt Ltd.
30	HERKAL ADITYA RAJENDRA	Yashita Automotive Pvt Ltd.

Industry Internship Details (2022-23):

Sr.No	Name of the Candidate (2021-22)	Name of the Company
1	Rohitkumar Prabhakar Shinde	Test YANTRA Software Solutions, Pune
2	Raut Amruta Dadaso	TVS LUCCAS PVT LTD, Pune
3	Pooja Namdev Patil	Tata Motors Ltd Pune
4	Komal Rangrao Patil	Tata Motors Ltd Pune
5	Mohite Raviraj Dhananjay	Ravi Electricals Pvt Ltd, Satara
6	Prajakta Kalyan Mahamulkar	Test YANTRA Software Solutions
7	Yadav Snehal Ashok	RAVI ELECTRICALS Satara
8	Pranita Hanmant Chavan	RAVI ELECTRICALS Satara
9	Chavan Utkarsha Ramchandra	RAVI ELECTRICALS Satara
10	Shubham Nandkumar Kenjale	Rajas Technical Solutions PVT LTD
11	Shriram Bhanudas Jadhav	Rubicon Research Pvt Ltd
12	Chalke Saurabh Ravindra	SpaceEx Elevator
13	Shubham Dhananjay Sonavane	Pravin Electricals
14	Sagar Kamble	Accurate Industrial Controls Pvt Ltd
15	Shedge Shubham Sanjay	RAVI ELECTRICALS
16	Saurabh Pawar	Technoartz Pvt Ltd
17	Asavari Vijay Jadhav	Mutha Engineering Pvt Ltd
18	Mayuri Mahcchindra Pawar	Mutha Engineering Pvt Ltd
19	Shital Shingate	Tata Motors Ltd Pune
20	Komal B Devkar	TVS LUCCAS PVT LTD
21	Poonam Abaso Kalange	Tata Motors Ltd Pune
22	Bhoite Nilam Prakash	Mutha Engineering Pvt Ltd
23	Archana Ravikumar Rao	Siddheshwar Electricals, Satara
24	Saloni Santosh Shivamkar	Galactic Electrical Pvt Ltd
25	Pooja Vaikrant Gaikwad	Galactic Electrical Pvt Ltd
26	Kshirsagar Ravikiran Shashikant	RV Lashkar Electrical & Consultant
27	Sujata Bhausaheb Ingle	Giant Engineering Solutions
28	Thorat Aba Balu	Minda Corporation Pune
29	Mr.Prashant Cahndrakant Mane	Khodashi Power Private Ltd
30	Nikhil S shinde	Finolex J-Power Systems pvt.Ltd
31	Pratik S Patil	Khodashi Power Private Ltd
32	Ghadge Mayuresh Pandurang	Ajinkya Electro System
33	Jamdade Shubham Rajendra	AG Electro Services
34	Shubham Patil	Ajinkya Electro System
35	Nishant Kiran Tawate	Chaitanya Electric & Electronic
36	Ruturaj Ananda Patane	DEEPTI ELECTRICAL ENGINEERING
		WORKS
37	Rohit K Shinde	Cummins India Pvt LTD.
38	Jamdade Shubham Rajendra	Shambhuraj Electrical Pvt Ltd
20	Shahaji Dinkar Patil	DEEPTI ELECTRICAL ENGINEERING
55		WORKS

Industry Internship Details (2021-22):

40	Kumbhar Kiran Sanjay	Shambhuraj Electrical Pvt Ltd						
41	Anup Sanjay Kadam	SpaceEx Elevator						
42	Aditya Suresh Shelar	SpaceEx Elevator						
43	Jedhe Piyush Dushant	Indrajeet Power Lines						
44	Amar Anil Chavan	SpaceEx Elevator						
45	Godse Ganesh Ankush	Test YANTRA Software Solutions						
46	Nikam Pratik Prabhakar	Parijaat Electricals						
47	Deshmane Divya Somnath	Prarthana Services						
48	Avishkar Balkrishna Khatte	Wipro Pari						
49	Akansha Jaywant Chavan	Test YANTRA Software Solutions						
50	Nikam Prajakta Mansing	Prarthana Services						
51	Divya Vinodkumar Kadam	Shreyas Transport						
52	Someshwar Ankush Pigale	Mahindra Buisness Solutions						
53	Rutuja Rajendra Nalawade	Tata Motors Ltd Pune						
54	Agawane Aparna Shrikant	Tata cummins Pvt Ltd						
55	Kajal Satish Jadhav	Tata Motors Ltd Pune						
56	Kale Shital Chandev	Siddheshwar Electricals						
57	Dhaigude Sanee Gulab	Paresh Plast India						
58	Gosawi Anita Eknath	M/s Harshwardhan Electricals						
59	Shraddha Vijaysingh Thorat	Cheddha Electricals And Electronics Pvt Ltd, Shirval						
60	Komal Rajaram Monde	Cheddha Electricals And Electronics Pvt Ltd, Shirval						

Industry Internship Details (2020-21):

Sr.	Name of the Candidate (2020-21)	Name of the Company
No.		
1	Kadam Tejashri Sanjay	Chandrasen Electricals & Company Satara
2	Pol Snehal kailas	Chandrasen Electricals & Company Satara
3	Pawar Shivraj Sarjerao	Sai Service Electrical pvt ltd ,Shiroli
4	Jadhav Mahesh Ananda	Sai Service Electrical pvt ltd ,Shiroli
5	Pawar Sushant vinayak	Pawar Electrical and Motar Winding, Wathar Station
6	Ghadge vijay Sanjay	Becon Gear transmission Satara
7	Babar Nagraj Vivekanand	Becon Gear transmission Satara
8	Pise Madhuri Madhukar	Generl Electric India Industrial pvt
9	kulkarni Omakar Rajendra	Generl Electric India Industrial pvt
10	Rohini Hanamant Shinde	inYantra Technology pvt.ltd
11	Borate Aniket Sanjay	New Pawar Electronics
12	Sasane Rushikesh Ashok	Lucas TVS Chakan
13	Jangam Prirti Sanjay	dana Anada India PVT.LTD
14	Bagal Poonam	Centurion university Of management
15	Lawand Amruta S	Centurion university Of management
16	Pawar sanchita Nanaso	Centurion university Of management
17	Kumbhar Megha Sunil	inYantra Technology pvt.ltd
18	Solaskar Shital Prakash	Pragati Electrical Pvt.lmt
19	Thigale Chitanya Sunil	Shri Sai Vidut udyog
20	Phadatare Vikas Balaso	Samadhan Electricals Malashiras
21	Dhotare Dilip Dyanadev	Samadhan Electricals Malashiras

22	Patil Pranjali Satish	Spark automesion Karad
23	Kshirsagar Swati shashikanat	IBM Electrical And Engi Solapur
24	Bhahulekar Pallavi Balkrushan	Smart ProSystem
25	Salunkhe Aishwarya Sanjay	inYantra Technology pvt.ltd
26	Chavan Pooja Sanjay	Tulja Enterprizes Waluj Aurangabad
27	Pawar Soundarya Vijaykumar	inYantra Technology pvt.ltd
28	Pimpalkar Nikita madhav	inYantra Technology pvt.ltd
29	Bhosale Rahul Amit	TE Connectivity Shirval
30	Mane Dipali Ramesh	Electra Solar System,Satara
31	Barge Priti Sunil	Electra Solar System,Satara
32	Sutar Komal Ramchandra	Accurate Lesser Work & Engg Pvt Ltd, Pune
33	Jadhav Ashwini Satappa	Prompt Industrial Services Pvt ltd, Pune
34	Chavan Gauri Ashok	Sulzer India Pvt Ltd, Pune
35	Wandare Laxmi Baban	Sulzer India Pvt Ltd, Pune
36	Patil Swaranjali Vitthalrao	Sulzer India Pvt Ltd, Pune
37	Mali Rutuja Shankar	Sulzer India Pvt Ltd, Pune
38	Karande Piyush Naresh	Siddheshwar Electricals Satara
39	Jagtap Akash Ramesh	Siddheshwar Electricals Satara
40	Jambhale Akhilesh Subhash	Siddheshwar Electricals Satara
41	Kadale Yuvraj Vijay	Siddheshwar Electricals Satara
42	Gujar Tejas Sharad	Ajinkya Electro Systems Satara



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

Sr	Low		Student's	Official
No	Date	Task Complete	Signature	Signature
-	1/1/23	Totroduction to Company	aphilter	/
2.	alilas	Study Related to VED's	ablite	1 al
3.		(vanable freq Drives)		Alleran
4.	3/1/83	study related to Danfoss	Belite	
5.		VED genes		1
6.				Y
Sr. No.	Date	Task Completd	Student's Signature	Officer's Signature
1.	4/1/03	study related to Dappas	Selite	0
2		websites of their asoducts		1 -1
з.	shilas	Study NED DEGUNIDO	Alle-	allal
4.	21163	Davising Dave contended	allit	Par
5.	01.100	Cludes related to the	Rliber	
6.	otities	Quality testing report	Can-	0
Sr. 1		i dente internet	Student's	Officer's
No.	Date	Task Complete	Signature	Signature
1.	911a3	Quality testing of fibri-	Ophile-	
2,	ALL ST	cation of penels.		1-11
3	1011/03	Testing of thinkess,	Shile.	1 Aler
4.		length & color of panel	ant	
5.	ulilas	with the help of various	Shite.	
s.		in tauments	4	
2.000	octions for	Cardinate by Company Internship Officer	San State State	and the second second
- and	outronia rol	An in stand of the stand stand and the stand stands to the stand s		

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

Post Training Assessment:

Internal Assessment:

		Arvind Gavali College of Engineering Satara Department of Computer Science & Engineering Field Training Assessment														ig Sat neering	ara g										
											Fiel	ld Train	ing Ass	sessm	ent												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sr . Na o.	ame of the Candidate	Total (50M)	Knowle dge about Produc t Details (2M)	Applie d Engg. Knowl edge (2M)	Carried out proble m analysi s(2M)	Provide Design/D evelopm ent of Solutions to Product (2M)	Moder n Tool Usage (2M)	Applied Knowledge to Engineerin g & society(2 M)	Impact assessmen t on environme nt & sustainabili ty(2M)	Applied Ethical Principle s(2M)	e Functio ning as individa uls & in a team work	Effectiven ess of communic ation(2M)	Approac h towards project manage ment & finance (2M)	Attitud e toward s life long (2M)	Identified problem statemen t for project from internship (2M)	Presente d Abstract for project (2M)	Interest shown in practcal work (2M)	Accepted responsib ilities during internship (2M)	Initiative taken at the time of internship (2M)	Demonst rated organizati onal skills(2M)	Effectiv e time utilizati on(2M)	Quality Content Presente d(2M)	Gives a profession al Appearanc e(2M)	Effectivene ss of presentatio n(2M)	Attenda nce Record (2M)	Daily Diary (2M)	Depar ment Repoi ts(2M

Figure B.2.2.5 c: Internship post-training assessment performance indicator

The following image shows the internship post-training assessment record as per the rubrics mentioned above

Industry Assessment:



Figure B.2.2.5 d: Internship post-training assessment record

Tou	hom it ma	Concern		
	nome te mar	yconaern		Y
This is to certify that Miss	Mahite. Man	asi.Shaza	d	
FMISHTONIA Tech of Electeico	Lengg	Department at An	wind Gavall Co	dege of Engineering.
Satara has been working with				
as traineer/ stipeparary/ intern during	110112023	15	105 12023	
Below is performance of the candidate a	walusted on following	Decemptors for aco	damic numona	
Parameters	Needs	Satisfactory	Good	Excellent
Behavior				-
Performs in a dependable manner			-	
Cooperates with co-workers and supervisors			-	
Shows interest in work				
Learns quickly				~
Shows initiative			-	
Produces high quality work			-	
Accepts responsibility			~	
Accepts criticism		-	1	
Demonstrates organizational skills			-	
Uses technical knowledge and expertise			-	
Shows good judgement			-	
Demonstrates creativity/originality			-	
Analyzes problems effectively			-	
s self-reliant		-	1 Carton and	
Communicates well		1	Value and	-
Writes effectively			-	
tas a professional attitude		and the second state	-	
		CT - WARREN	~	A REAL PROPERTY OF
Sives a professional appearance		the state of the second s		and the second se
sives a professional appearance				

Figure B.2.2.5 e: Industrial/Internship/summer training Assessment Sheet

	INNOVATIV EELECTROSOFT()PVT.LTD Factory :Gate No 67912/2.At Alandi ,Road. Kuruli, Chukan, Tal Khed, Pune -410 503/INDIA) Unit-II : Factory :Gate No 2131, Mohitewadi,Shalpimpalgaon, Taluka-Khed ,Dist-Pune 410503. Revaluation through smart solution
ECTROSOFT	Dute : 20/05/2923
	TO WHOMSOEVER IT MAY CONCERN
Th of of at l	is is to certify that Miss. Manasi Sharad Mohite has successfully completed 5 months an Internship program from 01/01/2023 to 15/05/2023 in the Engineering department our organization. She was highly motivated and hardworking. She worked sincerely her tasks and did a very good job.
Th of of at I	is is to certify that Miss. Manasi Sharad Mohite has successfully completed 5 months an Internship program from 01/01/2023 to 15/05/2023 in the Engineering department our organization. She was highly motivated and hardworking. She worked sincerely her tasks and did a very good job.
Th of at I We Sin	is is to certify that Miss. Manasi Sharad Mohite has successfully completed 5 months an Internship program from 01/01/2023 to 15/05/2023 in the Engineering department our organization. She was highly motivated and hardworking. She worked sincerely her tasks and did a very good job. e wish her great success in her future endeavors. hererely,
Th of at 1 Wo Sin	is is to certify that Miss. Manasi Sharad Mohite has successfully completed 5 months an Internship program from 01/01/2023 to 15/05/2023 in the Engineering department our organization. She was highly motivated and hardworking. She worked sincerely her tasks and did a very good job. a wish her great success in her future endeavors. hererely, wish framework to be the success of the future endeavors.

Figure B.2.2.5 f: Industrial/Internship/Summer training completion certificate

ele kor	ctero ctero	off epan al that the	teial Pri e beil Dkyo fo	ter Lt d. y f împ	inic bood or actio	ng er givi	provi gine ing exer	grar ven er me	opp as suc	nt onto on on th o	novo nity ,utu you	ntive re eat
			of Co	ourse	Outo	ome	s to P	Progra	am O	utcon	nes	
[Map	ping								1		
[Map PO1	PO2	PO3	PO4	PO5	PO6	P07	POB	PO9	PO10	PO11	PO12
[C0 1	Mar PO1	PO2	PO3	PO4	PO5	PO6	PO7	POB	PO9	PO10	P011	PO12
CO 1 CO 2	PO1	PO2	PO3	PO4	P05	PO6	PO7	P08	PO9	PO10	P011	P011
CO 1 CO 2 CO 3	PO1	PO2	PO3	PO4	P05	PO6	PO7	908 3	PO9	PO10	P011	P012
C01 C02 C03 C04	PO1	PO2	P03	P04	P05	PO6	P07	908 3	P09	PO10	P011	P012

Figure B.2.2.5 g: Industrial/Internship/Summer training outcome mapping to program outcome.



Figure B.2.2.5 h: 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 Feedback Students should give feedback of internship/ Field Training.	
agcepac2019@gmail.com (not shared) Switch accounts *Required	Ø
Are you satisfied with training initiative? *	
Have you received internship/ training letter from organization? * Yes No 	

Have you got guidance from supervisor/ senier members? * Yes No
Have you observed safety measures/precautions taken while working? * Yes No
Have you applied engineering knowledge during training? * Yes No
Have you identified latest tools and technologies? * Yes No

Have you got opportunity to work in team? *
Was there ample opportunity of Learning? * Yes No
Would you recommend your juniors for training in this company? * Yes No
Have you got realistic preview of career field ? *

Suggestions *	
Your answer	
Submit	Clear form
er submit passwords through Google Forms.	
This content is neither created nor endorsed by G	oogle. <u>Report Abuse</u> - <u>Terms of Service</u> - <u>Privacy Policy</u>
C	LE

Figure B.2.2.5 i: Feedback Form of Industrial Training/Internship

CRITERION	COURSE OUTCOMES AND PROGRAM	120
03	OUTCOMES	

(20)

3.1. Establish the correlation between the courses and the Program Outcomes (POs) and

Program Specific Outcomes (PSOs)

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

A. PROGRAM OUTCOMES (POs)

The students of Electrical 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)

Electrical Engineering graduates will be able to										
PSO1	Demonstrate knowledge and hands-on experience with electrical machines, power/energy systems, power electronics, and automation problems.									
PSO2	Develop the professionals and entrepreneurs in Renewable Energy system, electrical contracting and consultancy using modern tools and techniques.									

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	CO	Course Outcome					
		BTEEC302.1	Understand basic circuit laws and simplify the dc and ac network problems.					
SEM-3	Network Analysis & Synthesis	BTEEC302.2	Analyze and solve DC and AC circuits using mesh, nodal analysis and using theorems.					
	(BTEEC302)	BTEEC302.3	Explain the Laplace Transform and analyze the steady state and transient analysis problems.					
		BTEEC302.4	Apply the concepts of two port networks to simplify the network problems.					
		BTEEC402.1	Describe general structure of power systems					
	Power System-I (BTEEC402)	BTEEC402.2	Impart the knowledge of generation of electricity based on conventional and nonconventional energy sources					
SEM-4		BTEEC402.3	Illustrate the concept of microgrid and distributed generation					
		BTEEC402.4	Analyze of mechanical and electrical design aspects of transmission system					
		BTEEC501.1	Demonstrate construction, operation and performance of three phase induction machines.					
SEM-5	Electrical Machines-II(BTEEC501)	BTEEC501.2	Analyze operation and performance of synchronous machine.					
		BTEEC501.3	Analyze operation and performance of induction machines.					
		BTEEC501.4	Explain construction, operation and application of special machines.					

		BTEEC601.1	Characterize any system in Laplace domain to illustrate different specification of the system using transfer function concept.					
	Control System	BTEEC601.2	Employ time domain analysis to predict and diagnose transient performance parameters of the system for standard input functions.					
SEM-6	(BTEEC601)	BTEEC601.3	Formulate different types of analysis in frequency domain to explain the nature of stability of the system.					
		BTEEC601.4	Describe the needs of different types of controllers and compensator to ascertain the required Dynamic response from the system					
		BTEEC703.1	Analyze the dynamics of Electrical Drives system.					
SEM-7	Electrical Drives	BTEEC703.2	Use various control techniques for controlling the speed of AC and DC motors.					
	(BTEEC703)	BTEEC703.3	Evaluate the speed and frequency control method of Synchronous motor.					
		BTEEC703.4	Select the appropriate Drive according to the particular applications.					
		BTEEPE801.1	Explain the different types of converters and PWM schemes.					
SEM-8	High Power Multilevel Converters (BTFFPF801)	BTEEPE801.2	Interpret the operational parameters of Modular multilevel, Cascaded H-Bridge converters and also Demonstrate the topologies and operation of CHB, MMC.					
	(,	BTEEPE801.3	Design and Develop the components used in Modular Multilevel Converters and also Investigate the different topologies of NPC converter.					
		BTEEPE801.4	Investigate by case studying and monitoring of MMC, CHB and Gate Driver circuits.					

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.

	Course Name: BTEEC302											
Course	Course Programme Outcome (PO)											
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTEEC302.1	3	3			2	2			2	2		2
BTEEC302.2	2	3	2		2				2	2		2
BTEEC302.3	3	2			2	2			6	2		2
BTEEC302.4	BTEEC302.4 3 2 2 2 2										2	
Average	2.75	2.67	2.00		2.00	2.00			3.00	2.00		2.00

|--|

		Course Name: BTEEC402											
Course		Programme Outcome (PO)											
Outcome	PO1	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12											
BTEEC402.1	2	3				2				2		2	
BTEEC402.2	2	3			2	2	2		2	2		2	
BTEEC402.3	3				2	2						2	
BTEEC402.4	2		2										
Average	2.25	3.00	2.00		2.00	2.00	2.00		2.00	2.00		2.00	

		Course Name: BTEEC501										
Course					Pro	gramm	e Outc	ome (P	0)			
Outcome	P01	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTEEC501.1	3		3						3	2		2
BTEEC501.2	2	3										
BTEEC501.3	3	3	2						2	2		2
BTEEC501.4	2	3							2	2		2
Average	2.50	3.00	2.50						2.33	2.00		2.00

		Course Name: BTEEC601										
Course					Prog	gramme	e Outco	ome (PO)			
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTEEC601.1	3				2					2		
BTEEC601.2	3	3			2							
BTEEC601.3	3	3			2							
BTEEC601.4	2	3								2		
Average	2.75	3			2					2		

		Course Name: BTEEC703										
Course					gram C	Outcom	e (PO)					
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO
												12
BTEEC703.1	2	3	0	0	0		0	0	0		0	3
BTEEC703.2	3					3						3
BTEEC703.3						2				3		2
BTEEC703.4		2				2				2		2
Average	2.50	2.50 2.50 2.33 2.50 2.50										
												l

		Course Name: BTEEPE801												
Course	Program Outcome (PO)													
Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO		
												12		
BTEEPE801.1	3	3		0	3	0	0	0	0		2			
BTEEPE801.2	2		2							3				
BTEEPE801.3	2	2	3		2							2		
BTEEPE801.4	2	2	2		2							2		
Average	2.25	2.33	2.33		2.33					3.00	2.00	2.00		

CO-PSO matrices

Course Name:	BTEEC302	
Course	PSO1	PSO2
BTEEC302.1	2	
BTEEC302.2	2	
BTEEC302.3		
BTEEC302.4	2	
Average	2.00	

Course Name	: BTEEC402	
Course	PSO1	PSO2
BTEEC402.1	2	
BTEEC402.2		2
BTEEC402.3		
BTEEC402.4		2
Average	2.00	2.00

Course Name: E	STEEC501	
Course	PSO1	PSO2
BTEEC501.1	3	
BTEEC501.2	2	
BTEEC501.3	2	
BTEEC501.4	2	
Average	2.25	

Course Name: E	STEEC601	
Course	PSO1	PSO2
BTEEC601.1	3	
BTEEC601.2	2	
BTEEC601.3		
BTEEC601.4		
Average	2.5	

Course Name:	BTEEC703	
Course	PSO1	PSO2
BTEEC703.1	3	
BTEEC703.2	2	2
BTEEC703.3	2	
BTEEC703.4	2	
Average	2.25	2.00

NBA e-SAR 2022-23

Course Name:	BTEEPE801	
Course	PSO1	PSO2
TEEPE801.1	2	
TEEPE801.2		
TEEPE801.3	2	
TEEPE801.4	2	
Average	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	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12
	BTBS101	Engineering Mathematics- I	1.5	2.25	2									1.5
	BTBS102	Engineering Physics	2	2	2			3		3				2
	BTES103	Engineering Graphics	1.67	3.00	2.50	3.00	1.67				2.50	2.50		2.50
	BTHM104	Communication Skills					1.00	1.00		1.5	2.5	2.75		
FY- SEM-I	BTES105	Energy and Environment Engineering	2.33		2.50			1.50	3.00	2.00		2.00		
	BTES106	Basic Civil and Mechanical Engineering	2	3	2	2		2	2			2	3	
	BTBS107L	Engineering Physics Lab	2	2	2			3.00		3				2
	BTES108L	Engineering Graphics Lab	1.67	3.00	2.50	3.00	1.67				2.50	2.50		2.50
	BTHM109L	Communication Skills Lab.	1				1	1		2	3	3		

	BTBS201	Engineering Mathematics-II	1.5	2.25	2	2							1.50
	BTBS202	Engineering Chemistry	2.25	2.00				1.00	2.00				
	BTES203	Engineering Mechanics	2.67	3.00	2.00						2.00		
	BTES204	Computer Programming in C	2	2	2						2	3	
	BTES205	Workshop Practices	3				2.33				2	1	
	BTES206	Basic Electrical and Electronics Engineering	2.5						1			1	1.00
FY- SEM-II	BTES207L	Computer Programming Lab	2	2	2						2	3	
	BTBS208L	Engineering Chemistry Lab	2.25	2.00				1.00	2.00				
	BTES209L	Engineering Mechanics Lab	2.67	3.00	2.00						2.00		
	BTES210P	Mini Project	1	1			1	1	1	1	3	3	
	BTES211P	Field Training / Internship/Indu strial Training (minimum of 4 weeks which can be completed partially in first semester and second Semester or in at one time).											

	BTBS301	Engineering Mathematics-III	2.50	2.25	2.50			2.00			2.00	1.25
	BTEEC302	Network Analysis and Synthesis	2.75	2.67	2.00		2.00	2.00		3.00	2.00	2.00
	BTEEC303	Fluid Mechanics and Thermal Engineering	3.00	2.00			2.00			2.00	2.00	
	BTEEC304	Measurement and Instrumentatio n	2.75	2.00	3.00			2.00		2.00	2.00	2.00
57	BTEEE305A	Elective –I (A) Electrical Engineering Materials	2.75	3.00				2.00			1.67	1.00
SY- SEM-III	BTHM3401	Basic Human Rights	3	2				6		2	2	
	втнмзоб	Engineering Economics	2.67	2.33							2.25	2.00
	BTEEL307	Network Analysis and Synthesis Lab	2.25	2.00	2.00		3.00	2.00		2.00	2.50	2.00
	BTEEL308	Measurement and Instrumentatio n Lab	2	3	2		2	2		1	1	1
	BTEEM309	Electrical workshop/ Mini project	2	2	2	1	2	2		1	1	2

	BTEEF310	Field Training/ Internship/ Industrial Training Evaluation	2	2	2	2	2	2	2	2	1	1		1
SY- SEM-IV	BTEEC401	Electrical Machine-I	2.75	2.75	2.00			2.00			1.75	1.50		2.00
	BTEEC402	Power System-I	2.25	3.00	2.00		3.00	2.00	2.00		2.00	2.00		2.00
	BTEEC403	Electrical Installation and Estimation	2.50	2.67	3.00		3.00	2.00	2.00	3	2.50	2.00	2	2.33
	BTEEC404	Numerical Methods and Programming	2.25	3.00			2.50				2.00	1.67		2.00
	BTID405	Product Design Engineering	2.50	2.00			2.00				1.00	2.00		1.50
	BTEEE-406A	Elective –II- (A) Solid State Devices	2.75	2.00			2.00				1.25	2.00		
	BTEEOE407-B	Elective –III (B) Introduction to Non- Conventional energy sources	2.50	2.33	2.00			3.00	2.33		2.00	2.50		2.00
	BTEEL408	Electrical Machine-I Lab	3	3	2			2		3	2	2		2
	BTEEL409	Power System lab-l	2.25	2.00	2.00	2.00	3.00	2.00			2.00		2.00	2.00
	BTEEL410	Numerical Methods and Programming Lab	2	3	2		3				2	2		2

	BTEEEL411A	Elective-II Lab (A) Solid State Devices Lab	3	2		2				1	2	
		Field Training / Internship/ Industrial Training (minimum 4 weeks which can be completed partially in Third semester and Fourth Semester or in at one time.)										
	BTEEC501	Electrical Machine-II	3	3	3					2	2	2
	BTEEC502	Power System-II	3	3		2	2					
	BTEEL503	Microprocessor and micro Controller	3	3		2						2
TY- SEM-V	BTHM504	Value Education, Human Rights and Legislative Procedures [MOOC/Swaya m/NPTEL]					3	3	2		2	
	BTEEE505	Elective-IV- Illumination engineering	2	3								
	BTEEOE506	Elective-V- Electrical Mobility	3									
	BTEEL507	Electrical Machine-II Lab	3	3	2					2	2	2

	BTEEL508	Power System-II Lab	3	2			2	2						
	BTEEL509	Microprocessor and micro Controller Lab	3	2			2							2
	BTEEF510	Industrial Training	3	3	2	2	2	2	2	2	2	2	2	2
	BTEEC601	Control System	3	3			2					2		
	BTEEC602	Principles of Electrical Machine Design	3	3	2		2					2		
	BTEEC603	Power Electronics	3	3	3	3	3	2	2	2	3	2	2	2
	BTEEE604	Elective-VI- Industrial automation and Control	2	2										
TY- SEM-VI	BTEEC605	Elective-VII- Switch Gear and Protection	2	2			2		2		2	2		
	BTEEOE606	Elective-VIII- Project Management [MOOC/Swaya m/NPTEL]	3	3				3				3	2	
	BTEEL607	Control System- Lab	3	2			2					2		
	BTEEL608	Principles of Electrical Machine Design Lab	3	2	2		2					2		

	BTEEL609	Power Electronics Lab	3	3	3	3	3	2	2	2	3	2	2	2
	BTEEC701	Power System Operation & Control	2.25	3.00			2.50	2.00				2.00		
	BTEEC702	High Voltage Engineering	3.00	2.75		3		2.50	2.25			2.00		
	BTEEC703	Electrical Drives	2.50	2.50				2.33				2.50		2.50
B.Tech- SEM-VII	BTEEE704B	Elective-IX- (B) Electrical Traction and Utilization	2.75	2.75				2.25						
	BTEEE705D	Elective-X- (D) HVDC Transmission and FACTS	3.00	2.50		3		2.50				2.50		
	BTEEL706	Power System Operation & Control Lab	2.50	3.00			2.50					2.75		
	BTEEL707	High Voltage Engineering Lab	2.50	2.33			3.00	2.67	3.00			3.00		
	BTEEL708	Electrical Drives Lab	3.00	3.00			3.00	2.50				2.00		
	BTEES709	Seminar	2.33	2.50				2.25		2.00		2.33		
	BTEEP710	Project Part-I	2.50	2.50	2.00		3.00	2.00	2.00	2.00	2.00	2.33	3.00	2.00
	BTEEF711	Field Training/Interns hip/Industrial Training III	2.25	3.00	2.50	2.33	2.00	2.00	2.67	3.00	2.50	2.50	2.50	2.00
B.Tech- SEM-VIII	BTEEPE801	High Power Multilevel Converters	2.25	2.33	2.33		2.33					3.00	2	2.00

	BTEEP802	Entrepreneurshi p Essentials	2.33	2.50				2.00				2.00		
	BTEEP803	Project - II	2.50	2.50	2.00		3.00	2.00	2.00	2.00	2.00	2.33	3.00	2.00
AVERAGE VALUE		2.43	2.48	2.15	2.28	2.18	2.12	2.10	2.13	2.00	2.08	2.35	1.84	
			P01	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12

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

Class	Course Code	Course Name	PSO-1	PSO-2
	BTBS101	Engineering Mathematics- I		
	BTBS102	Engineering Physics	1	
	BTES103	Engineering Graphics		
	BTHM104	Communication Skills		
FY- SEM-I	BTES105	Energy and Environment Engineering	1.00	
	BTES106	Basic Civil and Mechanical Engineering		
	BTBS107L	Engineering Physics Lab	1	
	BTES108L	Engineering Graphics Lab		
	BTHM109L	Communication Skills Lab.		
	BTBS201	Engineering Mathematics-II		
FY- SEM-	BTBS202	Engineering Chemistry		
	BTES203	Engineering Mechanics		
	BTES204	Computer Programming in C		

	BTES205	Workshop Practices	1.00	
	BTES206	Basic Electrical and Electronics Engineering	1.00	
	BTES207L	Computer Programming Lab		
	BTBS208L	Engineering Chemistry Lab		
	BTES209L	Engineering Mechanics Lab		
SY- SEM- III	BTES210P	Mini Project	1	1
	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).		
	BTBS301	Engineering Mathematics-III		
	BTEEC302	TEEC302 Network Analysis and Synthesis		
	BTEEC303	Fluid Mechanics and Thermal Engineering		
	BTEEC304	304 Measurement and Instrumentation		
07.0584	BTEEE305A	Elective –I (A) Electrical Engineering Materials	1.25	
SY- SEM- III	BTHM3401	Basic Human Rights		
	BTHM306	Engineering Economics		
	BTEEL307	Network Analysis and Synthesis Lab	2.00	
	BTEEL308	Measurement and Instrumentation Lab		
	BTEEM309	Electrical workshop/ Mini project	2	
	BTEEF310	Field Training/ Internship/ Industrial Training Evaluation		
	BTEEC401	Electrical Machine-I	2.00	2.00
SY- SEM-	BTEEC402	Power System-I	2.00	2.00
IV	BTEEC403	Electrical Installation and Estimation	2.67	2.33
	BTEEC404	Numerical Methods and Programming	1.00	

	BTID405	Product Design Engineering	1.50	
	BTEEE-406A	Elective –II- (A) Solid State Devices	1.25	
	BTEEOE407-B	Elective –III (B) Introduction to Non- Conventional energy sources	2.33	2.33
	BTEEL408	Electrical Machine-I Lab		
	BTEEL409	Power System lab-l	2.00	2.00
	BTEEL410	Numerical Methods and Programming Lab		
	BTEEEL411A	Elective-II Lab (A) Solid State Devices Lab		
		Field Training / Internship/ Industrial		
		Training (minimum 4 weeks which can		
		be completed partially in Third semester		
		and Fourth Semester or in at one time.)		
	BTEEC501	Electrical Machine-II	2	
	BTEEC502 Power System-II		3	
	BTEEL503	Microprocessor and micro Controller	3	
	BTHM504	Value Education, Human Rights and Legislative Procedures [MOOC/Swayam/NPTEL]		
TY- SEM- V	BTEEE505	Elective-IV- Illumination engineering	2	
	BTEEOE506	Elective-V- Electrical Mobility	2	
	BTEEL507	Electrical Machine-II Lab	2	
	BTEEL508	Power System-II Lab	2	2
	BTEEL509	Microprocessor and micro Controller Lab	2	
	BTEEF510	Industrial Training	2	
TV CENA	BTEEC601	Control System	3	
VI	BTEEC602	Principles of Electrical Machine Design	2	2
	BTEEC603	Power Electronics	2	2

	BTEEE604	Elective-VI- Industrial automation and Control	2	
	BTEEC605	Elective-VII- Switch Gear and Protection	2	
	BTEEOE606	Elective-VIII- Project Management [MOOC/Swayam/NPTEL]		
	BTEEL607	Control System- Lab	2	
	BTEEL608	Principles of Electrical Machine Design Lab	2	2
	BTEEL609	Power Electronics Lab	2	2
	BTEEC701	Power System Operation & Control	2.00	
	BTEEC702	High Voltage Engineering	2.75	
	BTEEC703	3 Electrical Drives		2.00
	BTEEE704B	Elective-IX- (B) Electrical Traction and Utilization	2.25	
	BTEEE705D	Elective-X- (D) HVDC Transmission and FACTS	2.00	
B.Tech- SEM-VII	BTEEL706	Power System Operation & Control Lab	2.50	
	BTEEL707	High Voltage Engineering Lab	2.00	
	BTEEL708	Electrical Drives Lab	2.50	
	BTEES709	Seminar	2.25	
	BTEEP710	Project Part-I	2.50	
	BTEEF711	Field Training/Internship/Industrial Training III	3.00	
	BTEEPE801	High Power Multilevel Converters (Elective-I)	2.00	
B.Tech- SEM-VIII	BTEEP802	Entrepreneurship Essentials (Elective-II)		1.00
	BTEEP803	Project - II	2.50	
	1	AVERAGE VALUES	1.97	1.85
			PSO-1	PSO-2

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 andaccomplishmentscreated by the student during study period), internally developed assessmen texams, 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. Practical/Oral/TW
- 2. Tutorial
- 3. Seminar
- 4. Project
- 5. 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

Laboratory

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

Laboratory

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



Fig. 1: Process of defining CO attainment theory examination

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

Laboratory



Fig. 2: Process of defining CO attainment practical examination

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%

(40)

i. Record of the attainment of Course Outcomes of all courses with respect to set attainment levels

Course Name: Network Analysis and Synthesis Year: 2019-20							
Course Name: BTEEC302 Sem-III							
Course	Assessment	Internal	University	Final Direct			
Outcomes	Tools	Assessment	Result	Course	-		
		Attainment	Attainment	Attainment	Target	Remark	
BTEEC302.1		1.2	3	3.00	1.8	Attained	
BTEEC302.2	[CA1]/ [CA2]/	1.2	3	3.00	1.8	Attained	
BTEEC302.3	[ESE]	1.2	3	3.00	1.8	Attained	
BTEEC302.4		1.1	3	2.90	1.8	Attained	

Course Outcome Attainment: 2.98

Course Name: Power System-IYear: 2019-20Course Code: BTEEC402Sem-IV							
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark	
BTEEC402.1		1.2	3	3.00	1.8	Attained	
BTEEC402.2	[CA1]/ [CA2]/	1.05	3	2.85	1.8	Attained	
BTEEC402.3	[ESE]	0.95	3	2.75	1.8	Attained	
BTEEC402.4		1.1	3	2.90	1.8	Attained	

Course Outcome Attainment: 2.88

Course Name: Electrical Machine-II					Year- 2	2020-21	
Course Code	e: BTEEC501			Sem-V			
Course	Assessment	Internal	University	Course			
Outcomes	Tools	Assessment Attainment	Result Attainment	Attainment	Target	Remark	
BTEEC501.1		0.80	3	2.60	1.95	Attained	
BTEEC501.2	[CA1]/ [CA2]/	1.40	3	2.50	1.95	Attained	
BTEEC501.3	[ESE]	1.87	3	2.73	1.95	Attained	
BTEEC501.4		1.10	3	2.90	1.95	Attained	

Course Outcome Attainment: 2.68

Course Name: Control System					Year: 2020-21 Som-VI	
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
BTEEC601.1		0.9	3	2.70	1.95	Attained
BTEEC601.2	[CA1]/ [CA2]/	1.2	3	2.40	1.95	Attained
BTEEC601.3	[ESE]	2.0	3	2.78	1.95	Attained
BTEEC601.4		0.9	3	2.70	1.95	Attained

Course Outcome Attainment: 2.65

Course Name: Course Code:	Electrical Driv BTEEC703	ves			Year	: 2021-22 Sem-VII
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
BTEEC703.1	[CA1]/	1.2	3	3.00	2.1	Attained
BTEEC703.2	[CA2]/ [ESE]	1.1	3	2.90	2.1	Attained
BTEEC703.3		1.15	3	2.95	2.1	Attained
BTEEC703.4		1.2	3	3.00	2.1	Attained

Course Outcome

Attainment: 2.96

Course Name: High Power Multilevel Converters					Year: 2021-22	
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
BTEEPE801.1		1.2	3	3.00	2.1	Attained
BTEEPE801.2	[CA1]/ [CA2]/	1.1	3	2.90	2.1	Attained
BTEEPE801.3	[ESE]	1.15	3	2.95	2.1	Attained
BTEEPE801.4		1.2	3	3.00	2.1	Attained

Course Outcome Attainment: 2.96

SL.NO	COURSE NO.	COURSE NAME	CO1	CO2	CO3	CO4	Average CO Attainment
1	BTBS301	Engineering	2.94	2.95	2.93	2.95	2.94
		Mathematics-III	Attained	Attained	Attained	Attained	Attained
2	BTEEC302	Network Analysis and	2.97	2.96	2.94	2.87	2.94
		Synthesis	Attained	Attained	Attained	Attained	Attained
3	BTEEC303	Fluid Mechanics and	2.95	2.96	2.96	2.88	2.94
-		Thermal Engineering	Attained	Attained	Attained	Attained	Attained
4	BTEEC304	Measurement and Instrumentation	2.96	2.94	2.96	2.86	2.93
			Attained	Attained	Attained	Attained	Attained
5	BTEFE305A	Elective –I (A) Electrical Engineering Materials	2.96	2.94	2.94	2.90	2.94
5	DILLUGOR		Attained	Attained	Attained	Attained	Attained
6	BTHM3401	Basic Human Rights	2.48	2.48	2.98	2.01	2.49
			Attained	Attained	Attained	Attained	Attained
7	BTHM306	Engineering Economics	2.95	2.91	2.93	2.96	2.94
			Attained	Attained	Attained	Attained	Attained
8	BTEEL307	Network Analysis and	2.96	2.95	2.97	2.94	2.96
		Synthesis Lab	Attained	Attained	Attained	Attained	Attained
9	BTEEL308	Measurement and	2.48	2.47	2.95	2.00	2.48
		Instrumentation Lab	Attained	Attained	Attained	Attained	Attained
10	BTEEM309	Electrical workshop/	2.47	2.48	2.96	2.01	2.48
			Attained	Attained	Attained	Attained	Attained
11	BTFFF310	Field Training/ Internship/Industrial	2.46	2.48	2.96	1.99	2.47
	BTEEF310 Internship/ Industrial Training Evaluation	Training Evaluation	Attained	Attained	Attained	Attained	Attained

12	BTFFC401	Electrical Machine-I	2.97	2.96	2.91	2.91	2.94
			Attained	Attained	Attained	Attained	Attained
13	BTEEC402	Power System-I	2.96	2.84	2.76	2.88	2.86
			Attained	Attained	Attained	Attained	Attained
14	BTEEC403	Electrical Installation	2.96	2.84	2.81	2.90	2.88
		and Estimation	Attained	Attained	Attained	Attained	Attained
15	BTEEC404	Numerical Methods and	2.96	2.96	2.95	2.93	2.95
15	DIELECTOT	Programming	Attained	Attained	Attained	Attained	Attained
16	BTID405	Product Design	2.94	2.89	2.87	2.94	2.91
		Engineering	Attained	Attained	Attained	Attained	Attained
17	BTEEE-	Elective –II- (A) Solid	2.88	2.91	2.88	2.86	2.88
	400A	State Devices	Attained	Attained	Attained	Attained	Attained
	RTEEOE407	Elective –III	2.95	2.92	2.85	2.87	2.90
18	-В	Conventional energy sources	Attained	Attained	Attained	Attained	Attained
19	BTEEL408	Electrical Machine-I Lab	2.97	2.96	2.91	2.91	2.94
			Attained	Attained	Attained	Attained	Attained
20	BTFFI 409	Power System Jab-I	2.34	2.33	2.29	2.30	2.32
			Attained	Attained	Attained	Attained	Attained
21	BTEEL410	Numerical Methods and	2.46	2.46	2.95	1.98	2.46
	_	Programming Lab	Attained	Attained	Attained	Attained	Attained
22	BTEEEL411	Elective-II Lab (A) Solid	2.46	2.46	2.93	1.97	2.46
	A	State Devices Lab	Attained	Attained	Attained	Attained	Attained

23		Field Training / Internship/ Industrial Training (minimum 4 weeks which can be completed partially in Third semester and Fourth Semester or in at one time.)					
24	BTEEC501	Electrical Machine-II	2.64	2.50	2.68	2.81	2.66
			Attained	Attained	Attained	Attained	Attained
25	BTEEC502	Power System-II	2.61	2.47	2.67	2.74	2.62
			Attained	Attained	Attained	Attained	Attained
26	BTEEL503	Microprocessor and	2.60	2.43	2.69	2.83	2.64
		micro Controller	Attained	Attained	Attained	Attained	Attained
		Value Education, Human Rights and	2.98	2.88	2.10	2.07	2.51
27	BTHM504	Legislative Procedures [MOOC/Swayam/NPTEL]	Attained	Attained	Attained	Attained	Attained
28	BTEEE505	Elective-IV- Illumination	2.61	2.43	2.69	2.74	2.62
			Attained	Attained	Attained	Attained	Attained
29	BTEEOE506	Elective-V- Electrical	2.61	2.50	2.67	2.75	2.63
		Mobility	Attained	Attained	Attained	Attained	Attained
30	BTEEL507	Electrical Machine-II Lab	2.62	2.06	2.58	2.03	2.32
			Attained	Attained	Attained	Attained	Attained
31	BTEEL508	Power System-II Lab	2.93	2.38	2.92	2.38	2.65
		,	Attained	Attained	Attained	Attained	Attained
		Microprocessor and micro Controller Lab	2.95	2.39	2.90	2.35	2.65
32	BTEEL509		Attained	Attained	Attained	Attained	Attained

33	BTEEF510	Industrial Training	2.64	2.54	2.59	2.51	2.57
			Attained	Attained	Attained	Attained	Attained
34	BTEEC601	Control System	2.73	2.50	2.68	2.58	2.62
			Attained	Attained	Attained	Attained	Attained
35	BTEEC602	Principles of Electrical	2.62	2.43	2.64	2.58	2.57
		Machine Design	Attained	Attained	Attained	Attained	Attained
36	BTEEC603	Power Electronics	2.97	2.76	2.74	2.48	2.74
			Attained	Attained	Attained	Attained	Attained
37	BTEEE604	Elective-VI- Industrial automation and Control	2.95	2.78	2.89	2.65	2.82
			Attained	Attained	Attained	Attained	Attained
38	BTEEC605	Elective-VII- Switch Gear and Protection	2.96	2.79	2.93	2.69	2.84
			Attained	Attained	Attained	Attained	Attained
		Elective-VIII- Project Management	2.95	2.78	2.82	2.61	2.79
39	BTEEOE606	[MOOC/Swayam/NPTEL]	Attained	Attained	Attained	Attained	Attained
40	BTEEL607	Control System- Lab	2.95	2.89	2.93	2.88	2.91
			Attained	Attained	Attained	Attained	Attained
41		Principles of Electrical	1.98	2.35	1.93	2.83	2.27
41	BIELOUS	Machine Design Lab	Attained	Attained	Not Attained	Attained	Attained
42	BTEEL609	Power Electronics Lab	2.92	2.83	2.89	2.83	2.87
			Attained	Attained	Attained	Attained	Attained
		Power System Operation & Control	2.93	2.83	2.85	2.89	2.87
43	BTEEC701		Attained	Attained	Attained	Attained	Attained

44	BTEEC702	High Voltage	2.93	2.86	2.92	2.89	2.90
		Engineering	Attained	Attained	Attained	Attained	Attained
45	BTEEC703	Electrical Drives	2.90	2.84	2.85	2.89	2.87
			Attained	Attained	Attained	Attained	Attained
46	BTEEE704B	Elective-IX- (B) Electrical Traction and Utilization	2.94	2.88	2.88	2.92	2.90
40	DILLIVU		Attained	Attained	Attained	Attained	Attained
47	BTEEE705D	Elective-X- (D) HVDC	2.93	2.86	2.91	2.97	2.92
			Attained	Attained	Attained	Attained	Attained
48	BTEEL706	Power System Operation & Control Lab	2.93	2.47	2.93	2.47	2.70
			Attained	Attained	Attained	Attained	Attained
49	BTEEL707	High Voltage Engineering Lab	2.95	2.46	2.94	2.46	2.70
			Attained	Attained	Attained	Attained	Attained
50	BTEEL708	Electrical Drives Lab	2.95	2.47	2.94	2.44	2.70
			Attained	Attained	Attained	Attained	Attained
51	BTEES709	Seminar	2.94	2.47	2.94	2.47	2.71
			Attained	Attained	Attained	Attained	Attained
52	BTEEP710	Project Part-I	2.95	2.44	2.91	2.96	2.82
			Attained	Attained	Attained	Attained	Attained
53	DTEEE711	Field Training/Internship/Ind	2.95	2.94	2.92	2.95	2.94
23	BICCF/11	ustrial Training III	Attained	Attained	Attained	Attained	Attained
		High Power Multilevel Converters (Elective-I)	2.94	2.86	2.90	2.94	2.91
54	BTEEPE801		Attained	Attained	Attained	Attained	Attained

55	BTEEP802	Entrepreneurship Essentials (Elective-II)	2.94	2.87	2.91	2.93	2.91
			Attained	Attained	Attained	Attained	Attained
56	BTEEP803	Project - II	2.96	2.94	2.91	2.95	2.94
			Attained	Attained	Attained	Attained	Attained
	AVERAGE VALUE		2.81	2.69	2.82	2.66	2.75
			CO1	CO2	CO3	CO4	AVERAGE

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 tools and processes used 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 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.



Fig. 3: Process of defining PO/PSO Attainment

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 example,

Employer survey: To provide information about our graduate's skills and capability.

Program exit survey: To evaluate the success of programme in providing students with opportunities to achieve the POs and PSOs every year.

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

> 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

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).

PO Attainment:

Subject	Name of Subject	PO											
Code		1	2	3	4	5	6	7	8	9	10	11	12
BTBS101	Engineering Mathematics- I	2.92	2.82	2.66	2.90		2.90					2.93	2.87
BTBS102	Engineering Physics	2.83	2.75	2.90	2.74		2.57	2.57					2.84
BTES103	Engineering Graphics	2.95	2.74	2.58	2.61	2.74				2.79	2.85		3.00
BTHM104	Communication Skills	2.95				2.73	2.73		2.63	2.72	2.77		
BTES105	Energy and Environment Engineering	2.83	2.64	2.73	2.81		2.60	2.77	2.84		2.79	2.84	
BTES106	Basic Civil and Mechanical Engineering	2.97	2.97	2.97	2.97		2.97	2.97			2.97	2.97	
BTBS107L	Engineering Physics Lab	2.96	2.93	2.95	2.98		3.00	3.00					2.95
BTES108L	Engineering Graphics Lab	2.95	2.97	2.97	2.97	2.97				2.98	2.94		2.96
BTHM109L	Communication Skills Lab.	2.95				2.45	2.45		2.78	2.94	2.68		
BTBS201	Engineering Mathematics-II	2.92	2.82	2.66	2.90		2.90					2.93	2.87
BTBS202	Engineering Chemistry	2.79	2.75				2.75	2.84		2.75			
BTES203	Engineering Mechanics	2.87	2.86	2.65			2.77			2.95			
BTES204	Computer Programming in C	2.09	2.91	2.90						2.86	2.86		
BTES205	Workshop Practices	2.95				2.96				2.95	2.95		
BTES206	Basic Electrical and Electronics Engineering	2.77					2.81	2.65			2.77		2.77
BTES207L	Computer Programming Lab	2.83	2.80	2.81						2.48	2.49		

BTBS208L	Engineering Chemistry Lab	2.93	2.90				2.90	2.93		2.90			
BTES209L	Engineering Mechanics Lab	2.95	2.95	2.97			2.93			2.97			
BTES210P	Mini Project	2.19	2.17			2.17	2.19	2.17	2.17	2.18	2.18		
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).												
BTBS301	Engineering Mathematics-III	2.94	2.94	2.94	2.94		2.93				2.95	2.95	2.94
BTEEC302	Network Analysis and Synthesis	2.93	2.96	2.96		2.94	2.96			2.94	2.96		2.94
BTEEC303	Fluid Mechanics and Thermal Engineering	2.94	2.94			2.96				2.96	2.96		
BTEEC304	Measurement and Instrumentation	2.94	2.93	2.96			2.95			2.93	2.94	2.96	2.92
BTEEE305A	Elective –I (A) Electrical Engineering Materials	2.94	2.95				2.94				2.94		2.92
BTHM3401	Basic Human Rights	2.49	2.55				2.98			2.65	2.57		
BTHM306	Engineering Economics	2.95	2.93								2.94		2.94
BTEEL307	Network Analysis and Synthesis Lab	2.96	2.95	2.96		2.96	2.94			2.96	2.97		2.96
BTEEL308	Measurement and Instrumentation Lab	2.59	2.43	2.48		2.57	2.48			2.71	2.36		2.32
BTEEM309	Electrical workshop/ Mini project	2.60	2.32	2.48	2.01	2.56	2.48			2.72	2.36		2.40
BTEEF310	Field Training/ Internship/ Industrial Training Evaluation	2.59	2.31	2.47	2.72	2.56	2.67	2.72	2.47	2.71	2.35		2.31
BTEEC401	Electrical Machine-I	2.94	2.94	2.94			2.91		2.91	2.94	2.94		2.94
BTEEC402	Power System-I	2.85	2.90	2.88		2.80	2.86	2.84		2.84	2.90		2.86
BTEEC403	Electrical Installation and Estimation	2.88	2.88	2.96		2.89	2.89	2.90	2.88	2.92	2.89	2.93	2.89
BTEEC404	Numerical Methods and Programming	2.95	2.95			2.95				2.95	2.95		2.96

BTID405	Product Design Engineering	2.92	2.91			2.89				2.92	2.94		2.91
BTEEE- 406A	Elective –II- (A) Solid State Devices	2.89	2.88			2.88				2.88	2.88		
BTEEOE40 7-B	Elective –III (B) Introduction to Non- Conventional energy sources	2.91	2.89	2.86	2.89		2.87	2.90	2.87	2.87	2.94	2.95	2.86
BTEEL408	Electrical Machine-I Lab	2.94	2.94	2.94			2.91		2.91	2.94	2.94		2.94
BTEEL409	Power System lab-I	2.85	2.90	2.88		2.80	2.86	2.84		2.84	2.90		2.86
BTEEL410	Numerical Methods and Programming Lab	2.41	2.46	2.95		2.46				2.46	2.30		2.46
BTEEEL411A	Elective-II Lab (A) Solid State Devices Lab	2.41	2.46			2.46				2.46	2.46		
	Field Training / Internship/ Industrial Training (minimum 4 weeks which can be completed partially in Third semester and Fourth Semester or in at one time.)												
BTEEC501	Electrical Machine-II	2.66	2.66	2.66						2.70	2.71		2.71
BTEEC502	Power System-II	2.62	2.62			2.61	2.63						
BTEEL503	Microprocessor and micro Controller	2.64	2.64			2.63							2.71
BTHM504	Value Education, Human Rights and Legislative Procedures [MOOC/Swayam/NPTEL]						2.42	2.54	2.35		2.64		
BTEEE505	Elective-IV- Illumination engineering	2.59	2.58										
BTEEOE506	Elective-V- Electrical Mobility	2.66											
BTEEL507	Electrical Machine-II Lab	2.71	2.73	2.70						2.71	2.71		2.63
BTEEL508	Power System-II Lab	2.71	2.78			2.74	2.79						
BTEEL509	Microprocessor and micro Controller Lab	2.77	2.71			2.63							2.95
BTEEF510	Industrial Training	2.71	2.73	2.70	2.95	2.47	2.71	2.71	2.79	2.71	2.71	2.68	2.71

BTEEC601	Control System	2.63	2.59			2.64					2.66		
BTEEC602	Principles of Electrical Machine Design	2.56	2.55	2.55		2.54					2.51		
BTEEC603	Power Electronics	2.76	2.73	2.83	2.65	2.74	2.71	2.61	2.61	2.71	2.73	2.61	2.69
BTEEE604	Elective-VI- Industrial automation and Control	2.83	2.82										
BTEEC605	Elective-VII- Switch Gear and Protection	2.84	2.80			2.89		2.96		2.81	2.89		
BTEEOE606	Elective-VIII- Project Management [MOOC/Swayam/NPTEL]	2.78	2.81				2.77				2.77	2.89	
BTEEL607	Control System- Lab	2.71	2.73			2.71					2.71		
BTEEL608	Principles of Electrical Machine Design Lab	2.56	2.55	2.55		2.54					2.51		
BTEEL609	Power Electronics Lab	2.73	2.73	2.83	2.65	2.71	2.68	2.72	2.72	2.59	2.74	2.72	2.56
BTEEC701	Power System Operation & Control	2.88	2.87			2.87	2.87				2.87		
BTEEC702	High Voltage Engineering	2.90	2.90				2.90	2.90			2.90		
BTEEC703	Electrical Drives	2.86	2.89				2.86				2.87		2.87
BTEEE704B	Elective-IX- (B) Electrical Traction and Utilization	2.91	2.90				2.91						
BTEEE705D	Elective-X- (D) HVDC Transmission and FACTS	2.92	2.92				2.92				2.92		
BTEEL706	Power System Operation & Control Lab	2.70	2.47			2.70					2.68		
BTEEL707	High Voltage Engineering Lab	2.66	2.60				2.77	2.95			2.71		
BTEEL708	Electrical Drives Lab	2.71	2.78				2.70				2.86		
BTEES709	Seminar	2.68	2.76				2.73		2.94		2.81		
BTEEP710	Project Part-I	2.75	2.65	2.44		2.95	2.96	2.70	2.78	2.77	2.72	2.91	2.95
BTEEF711	Field Training/Internship/Ind ustrial Training III	2.94	2.93	2.93	2.94	2.95	2.95	2.94	2.95	2.94	2.94	2.94	2.95

BTEEPE801	High Power Multilevel Converters (Elective-I)	2.91	2.93	2.90		2.93					2.86	2.94	2.92
BTEEP802	Entrepreneurship Essentials (Elective-II)	2.91	2.91				2.93				2.92		
BTEEP803	Project - II	2.95	2.95	2.94		2.96	2.95	2.95	2.95	2.94	2.93	2.91	2.96
AVE	RAGE VALUES	2.79	2.77	2.80	2.79	2.73	2.80	2.79	2.74	2.80	2.77	2.88	2.82
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2

FINAL PO-ATTAINMENT:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12
CO Attainment	2.68	2.66	2.69	2.66	2.66	2.64	2.70	2.69	2.76	2.74	2.73	2.69
Direct Attainment	2.79	2.77	2.80	2.79	2.73	2.80	2.79	2.74	2.80	2.77	2.88	2.82
Indirect Attainment	2.26	2.23	2.29	2.16	2.35	2.03	2.36	2.47	2.62	2.58	2.16	2.21

PSO Attainment:

Subject Code	Name of Subject	PSO-1	PSO-2
BTBS101	Engineering Mathematics- I		
BTBS102	Engineering Physics	2.93	
BTES103	Engineering Graphics		
BTHM104	Communication Skills		
BTES105	Energy and Environment Engineering	2.95	
BTES106	Basic Civil and Mechanical Engineering		
BTBS107L	Engineering Physics Lab	2.97	
BTES108L	Engineering Graphics Lab		
BTHM109L	Communication Skills Lab.		
BTBS201	Engineering Mathematics-II		
BTBS202	Engineering Chemistry		
BTES203	Engineering Mechanics		
BTES204	Computer Programming in C		
BTES205	Workshop Practices	2.93	
BTES206	Basic Electrical and Electronics Engineering	2.78	
BTES207L	Computer Programming Lab		
BTBS208L	Engineering Chemistry Lab		
BTES209L	Engineering Mechanics Lab		
BTES210P	Mini Project	2.17	2.17
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).		
BTBS301	Engineering Mathematics-III		

BTEEC302	Network Analysis and Synthesis	2.93	
BTEEC303	Fluid Mechanics and Thermal Engineering		
BTEEC304	Measurement and Instrumentation	2.94	
BTEEE305A	Elective –I (A) Electrical Engineering Materials	2.94	
BTHM3401	Basic Human Rights		
BTHM306	Engineering Economics		
BTEEL307	Network Analysis and Synthesis Lab	2.96	
BTEEL308	Measurement and Instrumentation Lab	2.48	
BTEEM309	Electrical workshop/ Mini project	2.48	
BTEEF310	Field Training/ Internship/ Industrial Training Evaluation	2.47	2.96
BTEEC401	Electrical Machine-I	2.94	2.91
BTEEC402	Power System-I	2.96	2.86
BTEEC403	Electrical Installation and Estimation	2.88	2.91
BTEEC404	Numerical Methods and Programming	2.95	
BTID405	Product Design Engineering	2.94	
BTEEE-406A	Elective –II- (A) Solid State Devices	2.88	
BTEEOE407-B	Elective –III (B) Introduction to Non- Conventional energy sources	2.89	2.89
BTEEL408	Electrical Machine-I Lab	2.94	2.91
BTEEL409	Power System lab-I	2.96	2.86
BTEEL410	Numerical Methods and Programming Lab	2.30	
BTEEEL411A	Elective-II Lab (A) Solid State Devices Lab	2.36	

	Field Training / Internship/ Industrial	1	
	Training (minimum 4 weeks which can		
	be completed partially in Third semester		
	and Fourth Semester or in at one time.)		
BTEEC501	Electrical Machine-II	2.65	
	Device Custom II	2.64	
BIECOUZ	Power system-in	2.61	
BTEEL503	Microprocessor and micro Controller	2.69	
BTHM504	Value Education, Human Rights and Legislative		
	Procedures		
	[MOOC/Swayam/NPTEL]		
BTEEE505	Elective-IV- Illumination engineering	2.60	
BTEEOE506	Elective-V- Electrical Mobility	2.63	
BTEEL507	Electrical Machine-II Lab	2.47	
BTEEL508	Power System-II Lab	2.94	2.48
BTEEL509	Microprocessor and micro Controller Lab	2.46	
BTEEF510	Industrial Training	2.70	
BTEEC601	Control System	2.64	
BTEEC602	Principles of Electrical Machine Design	2.57	2.57
BTEEC603	Power Electronics	2.74	2.64
BTEEE604	Elective-VI- Industrial automation and Control	2.82	
BTEEC605	Elective-VII- Switch Gear and Protection	2.81	
DTEEDEGOG	Elective-VIII- Project Management		
BIEEOE000	[MOOC/Swayam/NPTEL]		
BTEEL607	Control System- Lab	2.47	
BTEEL608	Principles of Electrical Machine Design Lab	2.57	2.57
BTEEL609	Power Electronics Lab	2.71	2.66
BTEEC701	Power System Operation & Control	2.87	
BTEEC702	High Voltage Engineering	2.90	

BTEEC703	Electrical Drives	2.87	2.84
BTEEE704B	Elective-IX- (B) Electrical Traction and Utilization	2.91	
BTEEE705D	Elective-X- (D) HVDC Transmission and FACTS	2.92	
BTEEL706	Power System Operation & Control Lab	2.70	
BTEEL707	High Voltage Engineering Lab	2.70	
BTEEL708	Electrical Drives Lab	2.70	
BTEES709	Seminar	2.68	
BTEEP710	Project Part-I	2.75	
BTEEF711	Field Training/Internship/Industrial Training III	2.94	
BTEEPE801	High Power Multilevel Converters (Elective-I)	2.93	
BTEEP802	Entrepreneurship Essentials (Elective-II)		2.93
BTEEP803	Project - II	2.95	
	AVERAGE VALUES	2.76	2.74
		PSO-1	PSO-2

FINAL PSO-ATTAINMENT:

Course	PSO1	PSO2
CO Attainment	2.68	2.63
Direct Attainment	2.76	2.74
Indirect Attainment	2.38	2.17

CRITERION	Students' Performance	150
04		

4. STUDENTS' PERFORMANCE (150)

TableB.4a

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY (2022-23)	CAY m 1(2021-22)	CAY m2 (2020- 21)	CAYm3 (2019- 20)	CAYm4 (2018-19)	CAY <i>m</i> 5 (2017-18)	CAYm6 (2016-17
Sanctioned intake of the program (N)		30	30	30	60	60	45
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 (<i>N</i> 1)		9	22	9	14	14	11
Number of students admitted in 2nd year in the same batch via lateral entry (N2)		28	14	24	52	60	38
Separate division students, if applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the Program $(N1 + N2 + N3)$	31	37	36	33	66	74	49

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

TableB.4b

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)			
		IYear IIYear IIIYear IVYea			IVYear
CAY(2022-23)	31(31+0)				
CAYm1(2021-22)	37(9+28)	3			
CAYm2(2020-21)	36(22+14)	22	20+10		
CAYm3(2019-2020)	33(9+24)	9	9+14	9+14	
CAYm4(2018-2019)	66(14+52)	3	3+48	3+47	3+43
CAY <i>m5</i> (LYG)(2017- 18)	74(14+60)	5	(5+23)	(5+23)	(5+23)
CAY <i>m6</i> (LYG <i>m</i> 1)(2016-17)	49(11+38)	2	(1+15)	(1+14)	(1+14)

Year of entry	N1+N2+N3	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog+ without Backlog]			
	(As defined above)	IYear	IVYear		
CAY(2022-23)	31(31+0)				
CAYm1(2021-22)	37(9+28)	8			
CAYm2(2020-21)	36(22+14)	22	21+14		
CAYm3(2019-2020)	33(9+24)	9	9+19	9+19	
CAYm4(2018-2019)	66(14+52)	14	11+ 51	11+ 49	11+48
CAYm5(LYG)(2017- 18)	74(14+60)	14	14+49	14+43	14+42
CAYm6 (LYGm1)(2016-17)	49(11+38)	2	2+26	2+23	2+23

TableB.4c

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

Enrolment Rat	io=N1/N				
	N from table B.4a	N1 from tableB. 4a	Enrollment ratio		
CAY(2022-23)	30	30+1	103		
CAYm1(2021-22)	30	9	30		
CAYm2(2020-21)	30	22	73		
Average Enrollment=(ER1+ER2+ER3)/3=(103+30+73)/3= 68.66					

TableB.4.1

Item (StudentsenrolledattheFirstYearLevelonaveragebasisduringtheprev iousthreeacademicyearsstartingfromcurrentacademicyear)	Marks
>=90%studentsenrolled	20
>=80%studentsenrolled	18
>=70%studentsenrolled	16
>=60%studentsenrolled	14
>=50%studentsenrolled	12
Otherwise	0

4.1 Success Rate in the stipulated period of the program (40)

4.1.1 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*0.46=11.5

Item	Last Year of Graduate, LYG (2021-22)	Last Year of Graduate, minus1,LYGm 1 (2020-21)	Last Year of Graduate minus2,LYGm2 (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)	66	74	49
Number of students who have graduated without backlogs in the stipulated period(y)	46	28	15
Success Index(SI)=(y/x)	0.69	0.38	0.31
Average SI (SI1+SI2+SI3)/3		0.46	

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 yea rof that batch and actual 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= $15 \times AverageSI=15 \times 0.716=10.75$

Item	Last Year of Graduate, LYG (2022-23)	Last Year of Graduate minus 1, LYGm1 (2020-21)	Last Year of Graduate minus 2, LYGm2 (CAYm5) (19-20)
Numberofstudentsadmittedinthecorrespondi ngFirstYear+admittedin2ndyearvialateralen tryandseparatedivision,ifapplicable X	66	74	49
Number of students who have graduated in the stipulated period Y	59	56	25
Success Index(SI)=(y/x)	0.89	0.75	0.51
Average Success Index (SI1+SI2+SI3)/3		= 0.716	

TableB.4.2.2

Note: If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1& 4.2.2 will be applicable simultaneously.

4.3 Academic Performance in Third Year(15)

Academic Performance=1.5*Average API(Academic Performance Index)11.97

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

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

TableB.4.3

	CAYm1	CAYm2	CAYm3
Academic Performance	(2021-22)	(2020-21)	(2019-20)
Mean of CGPA or Mean Percentage of all successful students(X)	8.36	7.20	8.12
Total no. of successful students (Y)	28	60	57
Total no. of students appeared in the examination(Z)	28	62	63
$API=x^{*}(Y/Z)=$	8.36	6.97	7.34
Average API =(AP1+AP2+AP3)/3		7.55	

4.4 Academic Performance in Second Year(15)

Academic Performance Level=1.5*Average API (Academic Performance Index) 11.57

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

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

AcademicPerformance	CAYm 1 (2021- 22)	CAYm 2 (2020- 21)	CAY <i>m3</i> (2019-20)
Mean of CGPA or Mean Percentage of all successful students(X)	7.58	8.67	8.79
Total no. of successful students(Y)	33	28	62
Total no. of students appeared in the examination(Z)	33	33	66
API=X*(Y/Z)	7.58	7.31	8.25
Average API=(AP1+AP2+AP3)/3		7.71	

TableB.4.4

4.5 Placement, Higher Studies and Entrepreneurship (33/40) 34.93

Assessment Points =40×averageplacement

Table B.4.5

Item	CAYm1 (2021-22)	CAY <i>m1</i> (2020-21)	CAY m2 (2019- 20)
Total No. of Final Year Students(N)	62	56	28
No. of students placed in companies or Government Sector(x)	57	46	23
No. of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level Tests, GRE, GMAT etc.)(y)	1	0	0
No. of students turned entrepreneur in engineering/technology(z)	3	2	0
x+y+z=	61	48	23
Placement Index:(x+y+z)/N	0.98	0.64	1
Average placement=(P1+P2+P3)/3		0.874	

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

name of the program and the assessment year:

Programs Name and Assessment Year(2021-22)						
S.no.	Enrollment no.	Name of the student placed	Name of the Employer	Appointment letter reference no. with date		
1	1965451293021'	SHINDE ROHIT KRUSHNA	T.A ENGINEERING	TPC/1293/2022/021		
2	"51654520181129310056"	RAO ARCHANA RAVIKUMAR	WIPRO TECHNOLOGIES	TPC/1293/2022/005		
3	1965451293056'	AGAWANE APARNA SHRIKANT	CUMMINS	TPC/1293/2022/056		
4	1965451293042'	PINGALE SOMESHWAR ANKUSH	MAHINDRA INTEGRATED BUSINESS SOLUTIONS PVT LTD	TPC/1293/2022/042		
5	1965451293054'	JAMDADE SHUBHAM RAJENDRA	ONLYAS KAROL BAGH	TPC/1293/2022/054		
6	"51654520181129310067"	KOMAL RAJARAM MONDE	CHEDDHA ELECTRICALS AND ELECTRONICS PVT LTD, SHIRVAL	TPC/1293/2022/10067		
7	1965451293014'	KOMAL BALKRISHNA DEVKAR	TVS LUCCAS PVT LTD	TPC/1293/2022/014		
8	1965451293055'	PAWAR MAYURI MACHHINDRA	MUTHA ENGINEERING PVT LTD	TPC/1293/2022/055		
9	1965451293002'	CHAVAN AMAR ANIL	ACCURATE INDUSTRIAL CONTROLS PVT LTD	TPC/1293/2022/002		
10	"51654520181129310058"	KHATTE AVISHKAR BALKRISHNA	WIPRO	TPC/1293/2022/005		
11	1965451293001'	GOSAVI ANITA EKNATH	COMPETITIVE CLASSES KENDARE INTTITUTE	TPC/1293/2022/001		
12	1965451293015'	KENJALE SHUBHAM NANDKUMAR	FORCE MOTORS LIMITED	TPC/1293/2022/015		
13	1965451293026'	NIKAM PRAJAKTA MANASING	INFOSYS	TPC/1293/2022/026		
14	1965451293016'	SONAVANE SHUBHAM DHANANJAY	PRAVIN ELECTRONICS	TPC/1293/2022/016		
15	1965451293053'	UTKARSH RAMACHANDRA CHAVAN	SAI INDUSTRIES	TPC/1293/2022/053		
16	1965451293039'	SHINDE ROHITKUMAR PRABHAKAR	WIPRO	TPC/1293/2022/039		
17	1965451293032'	RAUT AMRUTA DADASO	SHIVAM ENTERPRISE	TPC/1293/2022/032		

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18	1965451293003'	KADAM ANUP SANJAY	MAHAGENCO	TPC/1293/2022/003
19	1965451293019'	CHALKE SAURABH RAVINDRA	UL SYSTEM AND CONTROLS INDIA PVT.LTD	TPC/1293/2022/019
20	1965451293033'	PATIL PRATIK SHAMRAO	QSPIDER PVT. LTD	TPC/1293/2022/033
21	1965451293006'	KAMBLE SAGAR CHANDRAKANT	ACCURATE INDUSTRIAL CONTROLS PVT LTD	TPC/1293/2022/006
22	1965451293011'	GAIKWAD POOJA VIKRANT	T & M CONSULTANCY PVT.LTD	TPC/1293/2022/011
23	"51654520181129310065"	THORAT SHRADDHA VIJAYSINH	CHEDDHA ELECTRICALS AND ELECTRONICS PVT LTD, SHIRVAL	TPC/1293/2022/006
24	1965451293004'	JADHAV KAJAL SATISH	TATA MOTORS LTD.	TPC/1293/2022/004
25	1965451293036	ABA BALU THORAT	MINDA CORPORATION PUNE	TPC/1293/2022/036
26	"51654520181129310059"	BHOITE NILAM PRAKASH	PROFOUND EDUTECH	TPC/1293/2022/056
27	1965451293009'	KSHIRSAGAR RAVIKIRAN SHASHIKANT	LOGICAL SOLUTIONS CONSULTANT	TPC/1293/2022/009
28	1965451293029'	KALE SHITAL CHANGDEV	QSPIDER PVT. LTD.	TPC/1293/2022/029
29	1965451293037'	JADHAV SHRIRAM BHANUDAS	CHHEDA ELECTRICALS & ELECTRONICS PVT. LTD.	TPC/1293/2022/037
30	1965451293007'	DHAIGUDE SANEE GULAB	RAJASHREE INTERNATIONAL	TPC/1293/2022/007
31	1965451293051'	PATIL KOMAL RANGRAO	TATA MOTORS LTD PUNE	TPC/1293/2022/051
32	1965451293005'	KALANGE POONAM ABASAHEB	SAI INDUSTRIES	TPC/1293/2022/005
33	1965451293013'	GHADGE MAYURESH PANDURANG	SURYAURJAA TECHNOLOGY ENERGY FOREVER	TPC/1293/2022/013
34	1965451293030'	DESHMANE DIVYA SOMNATH	Q SPIDERS	TPC/1293/2022/030
35	"51654520181129310064"	NIKAM PRATIK PRABHAKAR	SHIVAM ENTERPRISE	TPC/1293/2022/064
36	1965451293050'	PATIL POOJA NAMDEV	SHIVAM ENTERPRISE	TPC/1293/2022/050
37	1965451293040'	JADHAV ASAVARI VIJAY	PRICOL LIMITED	TPC/1293/2022/040
38	1965451293025'	SHIVANKAR SALONI SANTOSH	GALACTIC ELECTRIC PRIVATE LIMITED	TPC/1293/2022/025
39	1965451293022'	MAHAMULKAR PRAJAKTA KALYAN	ATTRA INFOTECH PVT. LTD.	TPC/1293/2022/022

40	1965451293027'	SHINGATE SHITAL HANMANT	TATA MOTORS LTD PUNE	TPC/1293/2022/027
41	1965451293044'	CHAVAN PRANITA HANMANT	TATA MOTORS(JAGUAR & LAND ROVER)PVT. LTD. PUNE	TPC/1293/2022/044
42	1965451293057'	YADAV SNEHAL ASHOK	BICARD	TPC/1293/2022/057
43	"51654520181129310085"	NISHANT KIRAN TAWATE	CHAITANYA ELECTRICA L	TPC/1293/2022/058
44	"51654520181129310053"	JEDHEDESHMUKH PIYUSH DUSHYANT	APTRON TECHNOLOGY	TPC/1293/2022/053
45	1965451293017'	SHINDE NIKHIL SURYABHAN	FINOLEX J POWER SYSTES LTD	TPC/1293/2022/017
46	1965451293031'	PAWAR SAURABH NARAYAN	TECHNOARTZ	TPC/1293/2022/031
47	1965451293020'	PATIL SHAHAJI DINKAR	APTRON TECHNOLOGY	TPC/1293/2022/020
48	1965451293059'	INGALE SUJATA BHAUSAHEB	STANTEC LTD.	TPC/1293/2022/059
49	1965451293018'	SHELAR AADITYA SURESH	CHAVARE ENGINEERING PVT.LTD	TPC/1293/2022/018
50	1965451293046'	KADAM DIVYA VINODKUMAR	CUMMINS	TPC/1293/2022/046
51	1965451293010'	NALAWADE RUTUJA RAJENDRA	TATA MOTORS LTD.	TPC/1293/2022/010
52	2065451293006'	MANE PRASHANT CHANDRAKANT	KHODSHI POWER PVT.LTD. KARAD	TPC/1293/2022/006
53	"51654520181129310066"	PATIL SHUBHAM MOHAN	SAGITEC SOLUTION PVT. LTD	TPC/1293/2022/066
54	"51654520181129310068"	CHAVAN AAKANKSHA JAYWANT	ATOS PVT. LTD	TPC/1293/2022/068
55	"51654520181129310009"	KUMBHAR KIRAN SANJAY	M.S.E.D.C.L	TPC/1293/2022/009
56	1965451293028'	PATANE RUTURAJ ANANDA	SHIVAM ENTERPRISE	TPC/1293/2022/028
57	"51654520181129310081"	JAMDADE SHUBHAM RANGRAO	SHIVAM ENTERPRISE	TPC/1293/2022/081
58	"51654520181129310055"	GODSE GANESH ANKUSH	CDAC	TPC/1293/2022/058

Progra	Programs Name and Assessment Year(2020-21)					
S.no.	Name of the student placed	Enrollment no.	Name of the Employer	Appointment letter		
				reference no.		
				with date		
1	DHALE HARDIKA HEMANT	51654520171129310002	CEM ELECTROMECH PVT.LTD	TPC/1293/2021/002/ 19-11-21		
2	GAIKWAD ANIKET RAJU	51654520171129310003	HONEYWELL	TPC/1293/2021/003/ 07-01-21		
3	KUMBHAR MEGHA SUNIL	51654520171129310004	ABHINAV EDUCATION SOCIETY'S COLLEGE OF ENGINEERING, WADWADI	TPC/1293/2021/004/ 14-11-20		
4	DEDE PRADIP ANKUSH	51654520171129300005'	PRICOL LMT, PLANT 5	TPC/1293/2021/005/ 27-9-21		
5	CHAITANYA SUNIL THIGALE	51654520171129310006	SAITRONIX PVT LTD SATARA	TPC/1293/2021/006/ 7-11-21		
6	AKHILESH SUBHASH JAMBHALE	51654520171129310007	TATA CONSULTANCY SERVICES LIMITED (TCSL).	REF: TCSL/DT20219030 479/LUCKNOW DATE: 19-02-2022		
7	NIKITA MADHAV PIMPALKAR	51654520171129310008	BYJUS	TPC/1293/2021/008/ 19-11-21		
8	KADAM TEJASHRI SANJAY	51654520171129310009	SAITRONIX PVT LTD SATARA	TPC/1293/2021/008/ 24-01-21		
9	ASMITA ARVIND PATIL	51654520171129310010	SAITRONIX PVT LTD SATARA	TPC/1293/2021/010/ 26-08-21		
10	SANDESH BABASAHEB WADKAR	51654520171129310011	AJINKAY ELECTRO SYSTEM SATARA	TPC/1293/2021/011/ 16-12-21		
11	SHINDE ROHINI HANAMANT	51654520171129310012	SAITRONIX PVT LTD SATARA	TPC/1293/2021/012/ 27-08-221		
12	SHINDE PRATIMA DATTATRAY	51654520171129310014	CEM ELECTROMECH PVT.LTD	TPC/1293/2021/014/ 20-08-21		
13	BAGAL POONAM ANANDRAO	PRN:5165452018112931 0016	RAVI ELECTRICALS, SATARA	TPC/1293/2021/016/ 25-09-21		
14	MALI RUTUJA SHANKAR	PRN:5165452018112931 0030	YAZAKI INDIA PVT.LTD	TPC/1293/2021/030/ 21-10-21		
15	KULKARNI OMKAR RAJENDRA	PRN:5165452018112931 0013	GE INDIA INDUSTRIAL PVT LTD PUNE	TPC/1293/2021/013/ 26-8-21		
16	DESHMUKH PRIYANKA BHANUDAS	PRN:5165452018112931 0020	RAVI ELECTRICALS, SATARA	TPC/1293/2021/020/ 2—7-21		
17	MAHESH ANANDA JADHAV	51654520181129310005	LEAR COORPORARATION	TPC/1293/2021/005/ 24-3-21		
18	KUMBHARKAR VAIBHAV VILAS	PRN:5165452018112931 0010	GM FINANCE	TPC/1293/2021/010/ 10-9-21		
18	CHOUGALE SHUBHANGI SANJAY	PRN:5165452018112931 0011	RAVI ELECTRICALS, SATARA	TPC/1293/2021/011/ 15-9-21		
20	SANKPAL NAMRATA NETAJI	PRN:5165452018112931 0035	TATA MOTORS	TPC/1293/2021/035/ 1-09-21		
21	PAWAR SANCHITA NANASO	PRN:5165452018112931 0018	RAVI ELECTRICALS, SATARA	TPC/1293/2021/018/ 20-11-21		
22	CHAVAN GOURI ASHOK	PRN:5165452018112931 0049	MACHBBIZ MARKETERS PVT LTD	TPC/1293/2021/049/ 22-12-21		
23	LAWAND AMRUTA SHIVAJI	PRN:5165452018112931 0029	SIDDHESHWAR ELECTRICALS	TPC/1293/2021/029/ 9/9/21		
24	AISHWARYA SANJAY SALUNKHE	PRN:5165452018112931 0027		TPC/1293/2021/027/ 24/09/21		
		1	DIDDHESHWAR ELECTRICALS	1		

25	CHIAD TELAS SHADAD			TPC/1293/2021/040/
	OUJAK TEJAS SHAKAD	51654520181129310040	AJNKAY ELECTRONICS	17-9-21
26	PATIL SWARANJALI	PRN:5165452018112931		TPC/1293/2021/019/
	VITTHALRAO	0019	YAZAKI INDIA PVT LTD	5-2-21
27	GARUD ASHISH ADHIKRAO	PRN:5165452018112931	DATTASUMAN ELECTRICAL	TPC/1293/2021/13/6
	GAROD ASHISH ADHIKKAO	0045	SERVICES	/21
28	DHOTRE DII IP DNVANDEV	PRN:5165452018112931	AJINKYA ELECTRO SYSTEM	TPC/1293/2021/062/
	DHOTKE DIEH DIVTANDEV	0062	SATARA	16-10-21
29	ΙΔΟΗΔΥ SHITAL SAMBHAII	PRN:5165452018112931		TPC/1293/2021/052/
	SADIA V SIIITAL SAWDIAJI	0052	GROUPO ANTOLIN	27-10-21
30	POWAR SHIVRAI SARIFRAO	PRN:5165452018112931	AJINKYA ELECTRO SYSTEM	TPC/1293/2021/002/
	I OWAR SHIVRAJ SARJERAO	0002	SATARA	17-11-21
31	TIKUDAVE AKSHAY	PRN:5165452018112931		TPC/1293/2021/043/
	DHONDIRAM	0043	KSB LTD, SHIRWAL	18/9-21
32	PAWAR SUSHANT VINAVAK	PRN:5165452018112931	AMURA MARKETING	TPC/1293/2021/008/
	I AWAR SUSHART VIRATAR	0008	TECHNOLOGIES PVT LTD	21-9-21
33	PISE MADHURI MADHUKAR	PRN:5165452018112931		TPC/1293/2021/005
		0050	GE INDIA INDUSTRIAL PVT. LTD	0/18-08-21
34	I OKHANDE AKSHAY HANMANT	PRN:5165452018112931	AJINKYA ELECTRO SYSTEM	TPC/1293/2021/006/
		0006	SATARA	20-12-21
35	PAWAR PRATIK BAI ASAHEB	PRN:5165452018112931		TPC/1293/2021/032/
	I AWAR I RATIK DALASATILD	0032	SUSTAINFOI ENERGY	18-02-21
36	SASANE RUSHIKESH ASHOK	PRN:5165452018112931		TPC/1293/2021/003/
	SASARE RESIMEDIA	0003	VIROCH ENGG	29-07-21
37	KAKADE RUSHIRAI RAIIV		INNOVATIVE ENGINEERING	TPC/1293/2021/036/
		51654520181129310036	SATARA	18-11-21
38	GHADGE VIIAY SANIAY	PRN:5165452018112931	INNOVATIVE ENGINEERING	TPC/1293/2021/021/
		0021	SATARA	23-08-21
39	MASAL SHANKAR MARUTI	PRN:5165452018112931		TPC/1293/2021/063/
		0063	DHOOT TRANSMISSION PVT.TLD	15-10-21
40	BHAGWAT DEVVRAT	PRN:5165452018112931		TPC/1293/2021/004/
	UMAKANT	0004	BPCL WAI LPG PLANT,SATARA	01-11-21
41	PHADTARE VIKAS BALASO	PRN:5165452018112931		TPC/1293/2021/051/
		0051		29-04-21
42	PAWAR KIRAN VIJAY	PRN:5165452018112931	NAMO NAMOKAR ENGINEERING	TPC/1293/2021/038/
		0038	PVT. LTD.	12-01-21
43	JANGAM PRITEE SANJAY	PRN:5165452018112931	INNOVATIVE ENGINEERING	TPC/1293/2021/073/
		0073	SATARA	11-1-22
44	JADHAV ASHWINI SATAPPA	PRN:5165452018112931	INNOVATIVE ENGINEERING	TPC/1293/2021/048/
		0048	SATARA	16-12-21
45	SAKATE RAHUL SIDDHARTH	PRN:5165452018112931	KOHINOOR TECHNICAL	TPC/1293/2021/031/
		0031	INSTITUTE PVT.LTD	2-9-21
46	IADHAV KOMAL VILAS	PRN:5165452018112931		TPC/1293/2021/041/
		0041	SIGMA ENGG	05-12-21

	Programs Name and Assessment Year(2020-21)				
S.no.	Name of the student placed	Enrollment no.	Name of the Employer	Appointment letter reference no. with date	
1	DHALE HARDIKA HEMANT	51654520171129310002	ANUSHKA MULTI SERVICES	TPC/1293/2021/002/19- 11-21	
2	GAIKWAD ANIKET RAJU	51654520171129310003	HONEYWELL	TPC/1293/2021/003/07- 01-21	
3	KUMBHAR MEGHA SUNIL	51654520171129310004	ABHINAV EDUCATION SOCIETY'S COLLEGE OF ENGINEERING, WADWADI	TPC/1293/2021/004/14- 11-20	
4	DEDE PRADIP ANKUSH	51654520171129300005'	PRICOL LMT, PLANT 5	TPC/1293/2021/005/27- 9-21	
5	CHAITANYA SUNIL THIGALE	51654520171129310006	BALAJI ELECTRICAL	TPC/1293/2021/006/7- 11-21	
6	AKHILESH SUBHASH JAMBHALE	51654520171129310007	TATA CONSULTANCY SERVICES LIMITED (TCSL).	REF: TCSL/DT20219030479/ LUCKNOW DATE: 19-02-2022	
7	NIKITA MADHAV PIMPALKAR	51654520171129310008	BYJUS	TPC/1293/2021/008/19- 11-21	
8	KADAM TEJASHRI SANJAY	51654520171129310009	BS CORPORATION LTD	TPC/1293/2021/008/24- 01-21	
9	ASMITA ARVIND PATIL	51654520171129310010	CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENTS	TPC/1293/2021/010/26- 08-21	
10	SANDESH BABASAHEB WADKAR	51654520171129310011	UNACADEMY	TPC/1293/2021/011/16- 12-21	
11	SHINDE ROHINI HANAMANT	51654520171129310012	QSP	TPC/1293/2021/012/27- 08-221	
12	SHINDE PRATIMA DATTATRAY	51654520171129310014	APTRON TECHNOLOGY	TPC/1293/2021/014/20- 08-21	
13	BAGAL POONAM ANANDRAO	PRN:516545201811293100 16	REALTHINGKSINDIA	TPC/1293/2021/016/25- 09-21	
14	MALI RUTUJA SHANKAR	PRN:516545201811293100 30	YAZAKI INDIA PVT.LTD	TPC/1293/2021/030/21- 10-21	
15	KULKARNI OMKAR RAJENDRA	PRN:516545201811293100 13	GE INDIA INDUSTRIAL PVT LTD PUNE	TPC/1293/2021/013/26- 8-21	
16	DESHMUKH PRIYANKA BHANUDAS	PRN:516545201811293100 20	PARANJAPE AUTOCAST PVT.LTD	TPC/1293/2021/020/2 —7-21	
17	MAHESH ANANDA JADHAV	51654520181129310005	LEAR COORPORARATION	TPC/1293/2021/005/24- 3-21	
18	KUMBHARKAR VAIBHAV VILAS	PRN:516545201811293100 10	SHIVAM ENTERPRISE	TPC/1293/2021/010/10- 9-21	
19	CHOUGALE SHUBHANGI SANJAY	PRN:516545201811293100 11	GET	TPC/1293/2021/011/15- 9-21	
20	SANKPAL NAMRATA NETAJI	PRN:516545201811293100 35	TATA MOTORS	TPC/1293/2021/035/1- 09-21	
21	PAWAR SANCHITA NANASO	PRN:516545201811293100 18	RAVI ELECTRICALS, SATARA	TPC/1293/2021/018/20- 11-21	
22	CHAVAN GOURI ASHOK	PRN:516545201811293100 49	MACHBBIZ MARKETERS PVT LTD	TPC/1293/2021/049/22- 12-21	
23	LAWAND AMRUTA SHIVAJI	PRN:516545201811293100 	TATA TECHNOLOGIES	TPC/1293/2021/029/9/9 /21	
24	AISHWARYA SANJAY SALUNKHE	PRN:516545201811293100 27	SURYAURJAA TECHNOLOGY ENERGY FOREVER	TPC/1293/2021/027/24/ 09/21	

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25	GUJAR TEJAS SHARAD	51654520181129310040	APTRON TECHNOLOGY	TPC/1293/2021/040/17- 9-21
26	PATIL SWARANJALI VITTHALRAO	PRN:516545201811293100 19	YAZAKI INDIA PVT LTD	TPC/1293/2021/019/5- 2-21
27	GARUD ASHISH ADHIKRAO	PRN:516545201811293100 45	SHIVAM ENTERPRISE	TPC/1293/2021/13/6/21
28	DHOTRE DILIP DNYANDEV	PRN:516545201811293100 62	NEXTEER AUTOMATION INDIA PRIVATE LIMITED	TPC/1293/2021/062/16- 10-21
29	JADHAV SHITAL SAMBHAJI	PRN:516545201811293100 52	TACO PRESTOLITE ELECTIC	TPC/1293/2021/052/27- 10-21
30	POWAR SHIVRAJ SARJERAO	PRN:516545201811293100 02	SAI INDUSTRIES	TPC/1293/2021/002/17- 11-21
31	TIKUDAVE AKSHAY DHONDIRAM	PRN:516545201811293100 43	KSB LTD, SHIRWAL	TPC/1293/2021/043/18/ 9-21
32	PAWAR SUSHANT VINAYAK	PRN:516545201811293100 08	AMURA MARKETING TECHNOLOGIES PVT LTD	TPC/1293/2021/008/21- 9-21
33	PISE MADHURI MADHUKAR	PRN:516545201811293100 50	GE INDIA INDUSTRIAL PVT. LTD	TPC/1293/2021/0050/1 8-08-21
34	LOKHANDE AKSHAY HANMANT	PRN:516545201811293100 06	INNOVSOURCE SERVICES PRIVATE LIMITED	TPC/1293/2021/006/20- 12-21
35	PAWAR PRATIK BALASAHEB	PRN:516545201811293100 32	SUSTAINFOI ENERGY	TPC/1293/2021/032/18- 02-21
36	SASANE RUSHIKESH ASHOK	PRN:516545201811293100 03	VIROCH ENGG	TPC/1293/2021/003/29- 07-21
37	KAKADE RUSHIRAJ RAJIV	51654520181129310036	LOGICAL SOLUTIONS	TPC/1293/2021/036/18- 11-21
38	GHADGE VIJAY SANJAY	PRN:516545201811293100 21	SURYAURJAA TECHNOLOGY ENERGY FOREVER	TPC/1293/2021/021/23- 08-21
39	MASAL SHANKAR MARUTI	PRN:516545201811293100 63	DHOOT TRANSMISSION PVT.TLD	TPC/1293/2021/063/15- 10-21
40	BHAGWAT DEVVRAT UMAKANT	PRN:516545201811293100 04	BPCL WAI LPG PLANT,SATARA	TPC/1293/2021/004/01- 11-21
41	PHADTARE VIKAS BALASO	PRN:516545201811293100 51	AGIO PHARMACEUTICALS LIMITES	TPC/1293/2021/051/29- 04-21
42	PAWAR KIRAN VIJAY	PRN:516545201811293100 38	NAMO NAMOKAR ENGINEERING PVT. LTD.	TPC/1293/2021/038/12- 01-21
43	JANGAM PRITEE SANJAY	PRN:516545201811293100 73	DANA ANAND INDIA PVT LTD,SATARA	TPC/1293/2021/073/11- 1-22
44	JADHAV ASHWINI SATAPPA	PRN:516545201811293100 48	LOGICAL SOLUTIONS	TPC/1293/2021/048/16- 12-21
45	SAKATE RAHUL SIDDHARTH	PRN:516545201811293100 31	KOHINOOR TECHNICAL INSTITUTE PVT.LTD	TPC/1293/2021/031/2- 9-21
46	JADHAV KOMAL VILAS	PRN:516545201811293100 41	SIGMA ENGG	TPC/1293/2021/041/05- 12-21

	Programs Name and Assessment Year(2019-20)				
S.no.	Name of the student placed	Enrollment no.	Name of the Employer	Appointment letter reference no. with date	
1	BHASKAR SANYOJITA SUBHASH	2016102866	SHREE DHANANJAY ELECTRICALS	REF. NO: OPS/CBL/2021/084 EMP CODE-OPS282, 26/11/2021	
2	JADHAV DIPALI SHIVAJI	2016102860	3 STAR IT SOLUTION AND SERVICES	TPC/1293/860/20-3-20	
3	PAWAR PRIYA DHARMU	2016102858	SAI INDUSTRIES	TPC/1293/858/24/02-20	
4	PAWAR SAURABH HARISHCHANDA	2016102867	SURYAURJAA TECHNOLOGY ENERGY FOREVER	TPC/1293/867/25-07-20	
5	BHOSALE NIKITA	2017106703	FABTECH	TPC/1293/703/23-2-20	
6	BORATE PRANJALI	2017106745	BBW HOCHSCHULE	TPC/1293/745/12-02-20	
7	CHAVAN ASHVINI	2017106729	MSEB	TPC/1293/729/1-10-2-	
8	DUBOLE PRIYANKA	2017106775	ONENESS AUTOMATION LLP	TPC/1293/775/16-04-2020	
9	GUDBAL JAYASHRI	2017106780	BOSCH GLOBAL SOFTWARE	TPC/1293/780/25-02-20	
10	JADHAV MANASI	2017106722	LOGICAL SOLUTIONS	TPC/1293/722/16-04-20	
11	KADAM MANISHA	2017106778	APTRON TECHNOLOGY	TPC/1293/778/25-10-20	
12	KADAM RADHIKA	2017106707	ONENESS CONTROL PANEL,SHIVAPUR	TPC/1293/707/1-10-20	
13	KRISHNA AKASH	2017106750	SHIVAM ENTERPRISE	TPC/1293/750/15-12-20	
14	MALI SARANG	2017106701	APTRON TECHNOLOGY	TPC/1293/701/24-08-20	
15	NIKAM MAYURI	2017106711	SAI INDUSTRIES	TPC/1293/711/1-12-20	
16	PATIL ABHISHEK	2017106719	TATA COMMUNICATIONS LTD.MUMBAI	TPC/1293/719/1-12-20	
17	PATIL PRATIKSHA	2017106733	BEACON LIGHTING DESIGNER	TPC/1293/733/14-12-20	
18	PAWAR DHANASHREE	2017106714	ONENESS CONTROL PANEL,SHIVAPUR	TPC/1293/714/27-12-20	
19	PISAL OMKAR	2017106713	SURYAURJAA TECHNOLOGY ENERGY FOREVER	TPC/1293/713/04-08-20	
20	RAJPURE PRATIK	2017106705	SHIVAM ENTERPRISE	TPC/1293/705/23-8-20	
21	SALUNKHE PRAGATI	2017106699	ONENESS CONTROL PANEL,SHIVAPUR	TPC/1293/699/12-03-20	
22	SHINDE VRUSHALI	2017106700	SAI INDUSTRIES	TPC/1293/700/04-08-20	
23	SURYAWANSHI AKSHAY	2017106710	INFOSIS	TPC/1293/710/28-01-20	

4.6 Professional Activities

(20)

4.6.1 Professional societies/chapters and organizing engineering events (05)

Sr.No	NAMEOF CHAPTER	MEMBERSHIP NAME	NO./YEAR	MEMBERSHIP DURATION
1	THE INDIAN SOCIETY FORT ECHENICAL EDUCATION(ISTE)	ARVINDGAVALIC OLLEGEOFENGIN EERING,SATARA	MH-313/2023	LIFE TIME

Table. Professional Chapter 2022-2023

YEAR 2022-23

SR. NO	NAME OF ACTIVITY	DATE	RESOURCE PERSON	TYPE OF ACTIVITY(GUEST LECTURE/QUIZ/PROJECT COMPETITION
1	LEADERSHIP AND MANAGEMENT	30-032022	DR.B.S.SAWANT	GUEST LECTURE
2	INSTITUTE LEVEL PROJECT COMPETITION-AVISHKAR	18-11-2022	DR.MADHAV KUMTHEKAR	PROJECT COMPETITION
3	INDUSTRIAL VISIT	25-11-2022	HVDC SUBSTAION,PADGHE.	INDUSTRIAL TOUR
4	INDUSTRIAL TOUR	17-12-2022	IIT BOMBAY	INDUSTRIAL TOUR
5	"GUEST LECTURE BY ALUMNI"	22 -11- 2022	MS. KUMBHAR MEGHA	GUEST LECTURE
6	"GUEST LECTURE BY ALUMNI"	22 -11- 2022	MS,CHAVAN AKANSHA	GUEST LECTURE
7	"GUEST LECTURE BY ALUMNI"	22 -11- 2022	MR.SHINDE ROHITKUMAR	GUEST LECTURE
8	"GUEST LECTURE BY ALUMNI"	27 -12- 2022	MR. PAWAR PRATIK	GUEST LECTURE
9	"GUEST LECTURE BY ALUMNI"	2-12-2022	MR.MAYURESH GHADAGE	GUEST LECTURE
10	UNIVERSITY LEVEL PROJECT COMPETITION- AAVISHKAR	24-12-2022	MR. S.V KHOBRAGADE	UNIVERSITY LEVEL PROJECT COMPETITION

11	PLACEMENT LINKED SKILL BASED TRANING PROGRAM	06-01-2023	SYMBIOSIS	GUEST LECTURE
12	"GUEST LECTURE BY ALUMNI"	18 -01- 2023	MS.PRAJAKTA KALYAN MAHAMULKAR	GUEST LECTURE
13	IT CAREER IN DIGITAL MARKETING (AJDM)	10-03-2023	MR. AJINKYAPAWAR (AJDM, INDIA)	GUEST LECTURE
14	INDUSTRIAL VISIT	13-04-2023	AG ELECTRO SERVICES,KARAD.	INDUSTRIAL TOUR
15	NATIONAL LEVEL PROJECT EXHIBITION	16/04/2023	MR.ANIKET KADAM	GUEST LECTURE
16	OPPORTUNITIES IN IT INDUSTRY & JAPAN	3-05-2023	MR.BIPINKADAM	GUEST LECTURE
17	GUEST LECTURE ON SOFTWARE TESTING	05-05-2023	MR. SURAJ SAWANT& MR. OMKAR MALI	GUEST LECTURE
18	RECENT TRENDS AND OPPORTUNITIES IN IT	19-5-2023	MR.SHIVRAJ GAIKWAD	GUEST LECTURE
19	INTERNATIONAL CONFERENCE	13-05-2023 TO 14-05-2023	DR. ZEHILA SELAMOGLU	INTERNATIONAL CONFERENCE
20	FIVE DAYS WORKSHOP ON WEB DESIGNING AND DEVELOPMENT	14-06-2023 TO 19-06-2023	MR. NIKHIL KAMBALE CODE CULTURE PUNE	WORKSHOP
21	TOUR AT PRATHISHIRDI	25-12-2022	-	TOUR
22	TWO DAYS WORKSHOP ON "AUTOCAD"	2-12-2023 TO 3-12- 2023	MRS. HAKE SHUBHANGI VINOD	WORKSHOP
23	C, C++ ON TURBO C AND HTML	01/08/2023 TO 14/08/2023	MR. SWAPNIL MAPARIDISHA COMPUTERS, SATARA	WORKSHOP
24	C, C++ AND ADVANCE JAVA	07/08/2023 TO 11/08/2023	MR. NILESH SONAWANEDESIGN SOLUTION, KARAD	WORKSHOP
25	C, C++ AND PYTHON	07/08/2023 TO 18/08/2023	MRS. PRANALI NALAWADESQUIRREL'S INFOTECH, SATARA	WORKSHOP
26	PCB DESIGN AND MANUFACTURING WORKSHOP	07/08/2023 TO 18/08/2023	APTRON TECH PVT. LTD. SATARA	WORKSHOP

27	AUTOCAD WORKSHOP	10/08/2023 TO	ICT PANEL, COMPUTERS, SOFTWARE'S	WORKSHOP
27		18/08/2023	INTERNET FACILITY, ACCESSORIES	WORKSHOP
28	FIVE DAYS WORKSHOP ON WEB DESIGNING AND DEVELOPMENT	14-06-2023 TO 19-06-2023	MR. NIKHIL KAMBALE CODE CULTURE PUNE	WORKSHOP

	YEAR 2021-22				
SR. NO	NAME OF ACTIVITY	DATE	TYPE OF ACTIVITY(GUEST LECTURE/QUIZ/PROJECT COMPETITION		
1	ONLINE WEBINAR ON HYBRID ELECTRICAL VEHICLE TECHNOLOGY	20TH DECEMBER 2021	WEBINAR		
2	INDUSTRIAL VISIT AT AVALON POWER PVT.LTD,URMODI	22TH DECEMBER 2021	VISIT		
3	GUEST LECTURE ON CONVERTERS USED IN ELECTRIC VEHICLE	24TH DECEMBER 2021	GUEST LECTURE		
4	INDUSTRIAL VISIT AT 132/33 KV SUBSTATION AMBHERI	29 [™] DECEMBER 2021	VISIT		
5	ONLINE EXPERT LECTURE ON ELECTRICAL TRACTION & UTILIZATION	28TH JANUARY 2022	GUEST LECTURE		
6	ONLINE EXPERT LECTURE ON ELECTRICAL MACHINE-II	28TH JANUARY 2022	GUEST LECTURE		
7	ONLINE EXPERT LECTURE ON HVDC AND FACTS	29TH JANUARY 2022	GUEST LECTURE		
8	ONLINE EXPERT LECTURE ON ELECTRICAL MACHINE-I	30TH JANUARY 2022	GUEST LECTURE		
9	ONLINE EXPERT LECTURE ON MM	1TH FEBRUARY 2022	GUEST LECTURE		
10	ONLINE EXPERT LECTURE ON ELECTRICAL DRIVES	2ND FEBRUARY 2022	GUEST LECTURE		
11	ONLINE EXPERT LECTURE ON POWER SYSTEM- II	3RD FEBRUARY 2022	GUEST LECTURE		
12	ONLINE EXPERT LECTURE ON HIGH VOLTAGE ENGINEERING	4TH FEBRUARY 2022	GUEST LECTURE		
13	ONLINE EXPERT LECTURE ON ELECTRICAL MOBILITY	05-FEB-22	GUEST LECTURE		
14	GUIDANCE ON COMPETETIVE EXAMINATION	06-APR-22	GUEST LECTURE		
15	GUEST LECTURE ON MANAGEMENT STUDIES	14 [™] FEBRUARY 2022	GUEST LECTURE		
16	GUEST LECTURE ON CDAC	31TH MAY 2022	GUEST LECTURE		

17	YUVA 360 DEGREE INTERNSHIP	14-JUN-22	GUEST LECTURE
18	INDUSTRIAL VISIT AT UNMITRA SOLAR PVT.LTD	14 [™] JUNE 2022	VISIT

YEAR 2020-21

SR NO	NAME OF ACTIVITY	DATE	TYPE OF ACTIVITY(GUEST LECTURE/QUIZ/PROJECT COMPETITION
1	CONDUCTED GUEST LECTURE ON HOW TO CRACK GATE EXAMINATION	5TH DECEMBER 2020	ONLINE GUEST LECTURE
2	CONDUCTED GUEST LECTURE ON CIVIL SERVICES AS A CAREER CHOICE	5TH NOV 2020	ONLINE GUEST LECTURE
3	CONDUCTED GUEST LECTURE ON CAREER OPPORTUNITIES IN BANKING SECTORS	11 TH NOV 2020	ONLINE GUEST LECTURE
4	CONDUCTED GUEST LECTURE ON CAREER OPPORTUNITIES AFTER B.TECH	5 th NOV 2020	ONLINE GUEST LECTURE
5	CONDUCTED GUEST LECTURE ON CAREER IN SOFTWARE TESTING, PREREQUISITES	9 th MAY 2021	ONLINE GUEST LECTURE
7	CONDUCTED GUEST LECTURE ON CAMPUS TO CORPORATE SESSIONS	12 APRIL 2021	GUEST LECTURE
8	CONDUCTED GUEST LECTURE ON PREPARE YOURSELF FOR ABROAD OPPORTUNITIES	26 TH NOV 2020	GUEST LECTURE

Table 4.6.1 c

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YEAR 2019-20				

SR NO	NAME OF ACTIVITY	DATE	TYPE OF ACTIVITY(GUEST LECTURE/QUIZ/PROJECT COMPETITION	
1	CONDUCTED ALUMNI GUEST LECTURE ON VMC AND HMC MACHINE WORKING.	23 -08- 2019	GUEST LECTURE	
2	CONDUCTED ALUMNI GUEST LECTURE ON M-G SET AND GENERATOR MAINTENANCE	16-09-2019	GUEST LECTURE	
3	EVENT ORGANIZED ON INDUSTRIAL MOTIVATION CAMPAIGNING	18 th TO 19 th SEPTEMBER 2019	GUEST LECTURE	
4	CONDUCTED ALUMNI GUEST LECTURE ON INDUSTRIAL SKILL REQUIREMENTS AND JOB OPPORTUNITIES	20 -08- 2019	GUEST LECTURE	
5	CONDUCTED GUEST LECTURE ON PCB DESIGN & HOME AUTOMATION PRODUCTS	6 -02- 2020	GUEST LECTURE	
6	EVENT ORGANIZED ON PERSONALITY DEVELOPMENT PROGRAM	10 TH TO 12 SEPTEMBER 2019	GUEST LECTURE	
7	EVENT ORGANIZED ON CUMMINS SCHOLARSHIP ORIENTATION	23 -08- 2019	GUEST LECTURE	
8	YUGAM – FOUR WEEK TRAINING PROGRAM ON PCB DESIGN	29-7-2020 TO 24-8-2020	WORKSHOOP	
9	GUEST LECTURE ON PCB DESIGN AND HOME AUTOMATION PRODUCTS	6-02-2022	GUEST LECTURE	

Table 4.6.1 d

4.6.2 Publication of technical magazines, news letters, etc. (05)

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

SR NO	NAME OF NEWSLETTER	YEAR	NAME OF EDITOR	PUBLISHER	ТҮРЕ
1	ELECTRO	2018-2019	MR. B M NAYAK	DEPARTMENT OF ELECTRICAL ENGINEERING	YEARLY
2	ELECTRO	2019-2020	MR. B M NAYAK	DEPARTMENT OF ELECTRICAL ENGINEERING	YEARLY
3	ELECTRO	2020-21	MR. B M NAYAK	DEPARTMENT OF ELECTRICAL ENGINEERING	YEARLY
4	ELECTRO	2021-22	DR. B M NAYAK	DEPARTMENT OF ELECTRICAL ENGINEERING	YEARLY
5	ELECTRO	2022-2023	DR. B M NAYAK	DEPARTMENT OF ELECTRICAL ENGINEERING	YEARLY

Table 4.6.2.a

Following students are collecting the data & make it ready for the news letterunder the supervision of upper mention faculty.

SR NO	NAME OF NEWSLETTER	YEAR	NAME OF COORDINATOR	PUBLISHER	TYPE
1	ELECTRO	2018-2019	PAWAR AMIT NAGESH	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	YEARLY
2	ELECTRO	2019-2020	BHASKAR SANYOJITA SUBHASH	ARVIND GAVALI COLLEGE OF ENGINEERING,SA TARA	YEARLY
3	ELECTRO	2020-21	KUMBHAR MEGHA SUNIL	ARVIND GAVALI COLLEGE OF ENGINEERING,SA TARA	YEARLY
4	ELECTRO	2021-22	PATIL HARSHAL PRASHANT	ARVIND GAVALI COLLEGE OF ENGINEERING,SA TARA	YEARLY
5	ELECTRO	2022-2023	MOHITE MANASI	ARVIND GAVALI COLLEGE OF ENGINEERING,SA TARA	YEARLY

Table 4.6.2.b

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

YEAR 2022-23

Co-curricular activities

NPTEL Examination 2022-2023

Sr. No	Name of Students	Course ID	Course Name	Final Score	Certificate Type	
1	Bhise Vaishnavi Rajendra	NPTEL21EE60S64600297	Smart Grid basics to advance technology	42%	Successfully completed	
2	Unune Shehal	NPTEL21EE01S44920437	Electric Vehicles-Part 1	48 %	Successfully completed	
SR NO	NAME OF STUDENT	RANK	NAME OF THE EVENT	LEVEL	EVENT ORGANIZED INSTITUTE	DATE OF EVENT
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1	KADAM ROHIT VISHVAS	PARTICIPATED	CRETECHOVA 2K34	CHOVA 34 NATIONAL SVPM'S COLLEGE OF ENGINEERING, MALEGAON		20 TH &21TH APRIL 2023
2	KADAM ROHIT VISHVAS	THIRD PRIZE	YASHO TECHFEST 2K23	STATE	YASHODA TECHNICAL CAMPUS	11 TH APRIL 2023
3	KADAM ROHIT VISHVAS	PARTICIPATED	PROJECT COMPETITION	NATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING,SATARA	16 TH APRIL 2023
4	KADAM ROHIT VISHVAS	VOLUNTEER	PROJECT COMPETITION	NATIONAL	ROTARY CLUB OF SATARA	17 TH TO 18 TH APRIL 2023
5	SHILEWANT TEJAS VITTHAL	PARTICIPATED	CRETECHOVA 2K34	NATIONAL	SVPM"S COLLEGE OF ENGINEERING,MALEGAON	20 TH &21TH APRIL 2023
6	CHAVAN SANKET HANMANT	PARTICIPATED	EMBARK 2K23	STATE	KBP INSTITUTE OF MANAGEMENT STUDIES AND RESEARCH,VARYE,SATARA	13 ^{тн} &14 ^{тн} APRIL 2023
7	CHAVAN SANKET HANMANT	PARTICIPATED	DCODE 2K23	STATE	YASHODA TECHNICAL CAMPUS	20 TH APRIL 2023
8	BHISE VASHNAVI RAJENDRA	PARTICIPATED	CRETECHOVA 2K34	NATIONAL	SVPM"S COLLEGE OF ENGINEERING,MALEGAON	20 TH &21TH APRIL 2023
9	CHAVAN ADITYA MADAN	PARTICIPATED	CRETECHOVA 2K34	NATIONAL	SVPM"S COLLEGE OF ENGINEERING,MALEGAON	20 TH &21TH APRIL 2023
10	KUMBHAR VARSHA JOTIRAM	PARTICIPATED	CRETECHOVA 2K34	NATIONAL	SVPM"S COLLEGE OF ENGINEERING,MALEGAON	20 TH &21TH APRIL 2023
11	CHAVAN SHRAVANI PRADIP	PARTICIPATED	CRETECHOVA 2K34	NATIONAL	SVPM"S COLLEGE OF ENGINEERING,MALEGAON	20 TH &21TH APRIL 2023
12	KUMBHAR SHWETA SAYAJI	PARTICIPATED	CRETECHOVA 2K34	NATIONAL	SVPM"S COLLEGE OF ENGINEERING,MALEGAON	20 TH &21TH APRIL 2023
13	DESHMUKH ANKITA ANIL	PARTICIPATED	CRETECHOVA 2K34	NATIONAL	SVPM"S COLLEGE OF ENGINEERING,MALEGAON	20 TH &21TH APRIL 2023

14	CHAVAN NIKITA	WINNER	DCODE 2K23	STATE	YASHODA TECHNICAL CAMPUS	20 TH APRIL 2023
15	KADAM ATHRAV	WINNER	DCODE 2K23	STATE	YASHODA TECHNICAL CAMPUS	20 TH APRIL 2023
16	CHAVAN SANKET	PARTICIPATED	DCODE 2K23	STATE	YASHODA TECHNICAL CAMPUS	20 TH APRIL 2023
17	KUMBHAR DIVYA	PARTICIPATED	DCODE 2K23	STATE	YASHODA TECHNICAL CAMPUS	20 TH APRIL 2023
18	KUMBHAR DIVYA	PARTICIPATED	DCODE 2K23	STATE	YASHODA TECHNICAL CAMPUS	20 TH APRIL 2023
19	VISHAKHA DESAI	PARTICIPATED	DCODE 2K23	STATE	YASHODA TECHNICAL CAMPUS	20 TH APRIL 2023
20	KHOMANE NAMRATA	PARTICIPATED	DCODE 2K23	STATE	YASHODA TECHNICAL CAMPUS	20 TH APRIL 2023
21	KHOMANE NAMRATA	PARTICIPATED	DCODE 2K23	STATE	YASHODA TECHNICAL CAMPUS	20 TH APRIL 2023
22	SHELAR SHAILESH	PARTICIPATED	PROJECT COMPETITION	NATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING,SATARA	16 TH APRIL 2023
23	JADHAV AKANKSHA SHASHIKANT	PARTICIPATED	PROJECT COMPETITION	NATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING,SATARA	16 TH APRIL 2023
24	JADHAV PRATIKSHA SHASHIKANT	PARTICIPATED	PROJECT COMPETITION	NATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING,SATARA	16 TH APRIL 2023
25	JADHAV POOJA JAYSINGH	PARTICIPATED	PROJECT COMPETITION	NATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING,SATARA	16 TH APRIL 2023
26	KAWAR PRASHANT	PARTICIPATED	PROJECT COMPETITION	NATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING,SATARA	16 TH APRIL 2023
27	GHATE HARSHALI VIJAY	PARTICIPATED	PROJECT COMPETITION	NATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING,SATARA	16 TH APRIL 2023
28	AKANKSHA PRADIP JADHAV	PARTICIPATED	PROJECT COMPETITION	NATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING,SATARA	16 TH APRIL 2023
29	TARADE SHWETA	PARTICIPATED	PROJECT COMPETITION	NATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING,SATARA	16 TH APRIL 2023
30	JADHAV ANKITA	PARTICIPATED	PROJECT COMPETITION	NATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING,SATARA	16 TH APRIL 2023
31	SABALE SHUBHAM RAVINDRA	PARTICIPATED	PROJECT COMPETITION	NATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING,SATARA	16 TH APRIL 2023
32	LOKARE SAUJANYA SURESH	PARTICIPATED	PROJECT COMPETITION	NATIONAL	ARVIND GAVALI COLLEGE OF ENGINEERING,SATARA	16 TH APRIL 2023
33	PATIL ASHOK SADASHIV	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

34	LOKARE SAUJANYA SURESH	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
35	GHATE HARSHALI VIJAY	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
36	NIKITA SURESH KENJALE	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
37	KATKAR PRATIK BABURAO	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
38	MOHITE SALONI DATTATRAY	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
39	JADHAV AKANKSHA SHASHIKANT	WINNER	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
40	YADAV SANJAY GANESH	WINNER	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
41	MOHITE MANASI SHARAD	WINNER	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
42	JADHAV AKANKSHA PRADIP	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
43	TARADE SWETA TUKARAM	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
44	GALAVE GORAKSH SHIVAJI	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
45	JADHAV POOJA JAYSING	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
46	SABLE SHUBHAM RAVINDRA	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
47	JADHAV PRATIKSHA SHASHIKANT	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
48	ASMITA SUNIL KAMBLE	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

49	SHELAR SHAILESH DATTATRAY	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
50	TIRMARE PRASAD RAJESH	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
51	MEMANE TUSHAR DATTATRAY	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
52	JADHAV AMRUT SUHAS	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
53	INDULKAR KAILAS VIJAY	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
54	MAHADIK VAISHANVI RAJENDRA	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
55	SONAWANE RAJESHWARI RAJAN	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
56	SURAVASHI PRAVIN RAMACHANDRA	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
57	KAMBLE VIDYASHRI LAXMAN	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
58	SHINDE ABHIJIT BHARAT	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
59	ANKITA SANJAY JADHAV	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
60	JADHAV OMKAR RAVINDRA	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
61	KADAM RAJESH DILIP	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
62	GORE SONALI KUNDALIK	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
63	KAWAR PRASHANT SAKHARAM	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023

64	PATIL HARSHAL PRASHANT	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
65	HERKAL ADITYA RAJENDRA	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
66	PATIL ASHOK SADASHIV	PARTICIPATED	ICIRTES-2023	INTERNATION AL	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	10/06/2023 TO 11/06/2023
67	INDULKAR KAILAS VIJAY	PARTICIPATED	DIPEX-2023	STATE	SIPNA COLLEGE OF ENGINEERING AND TECHNOLOGY, AMRAVATI.	7TH TO 9TH APRIL 2023
68	JADHAV AMRUT SUHAS	PARTICIPATED	DIPEX-2023	STATE	SIPNA COLLEGE OF ENGINEERING AND TECHNOLOGY, AMRAVATI.	7TH TO 9TH APRIL 2023
69	TIRMARE PRASAD RAJESH	PARTICIPATED	DIPEX-2023	STATE	SIPNA COLLEGE OF ENGINEERING AND TECHNOLOGY, AMRAVATI.	7TH TO 9TH APRIL 2023
70	MEMANE TUSHAR DATTATRAY	PARTICIPATED	DIPEX-2023	STATE	SIPNA COLLEGE OF ENGINEERING AND TECHNOLOGY, AMRAVATI.	7TH TO 9TH APRIL 2023
71	JADHAV AKANKSHA SHASHIKANT	PARTICIPATED	AVISHKAR	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18 TH NOV 2022
72	YADAV SANJAY GANESH	PARTICIPATED	AVISHKAR	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18 TH NOV 2022
73	MOHITE MANASI SHARAD	PARTICIPATED	AVISHKAR	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18 TH NOV 2022
74	GHATE HARSHALI VIJAY	PARTICIPATED	AVISHKAR	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18 th NOV 2022
75	NIKITA SURESH KENJALE	PARTICIPATED	AVISHKAR	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18 TH NOV 2022
76	KATKAR PRATIK BABURAO	PARTICIPATED	AVISHKAR	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	18 th NOV 2022
77	CHAVAN SHRAVANI PRADIP	SECOND PRIZE WINNEE	MATRIX 2K23	STATE	DNYANSHREE INSTITUTE OF ENGINEERING,SATARA	3 RD MAY 2023
78	KUMBHAR SHWETA SAYAJI	SECOND PRIZE WINNEE	MATRIX 2K23	STATE	DNYANSHREE INSTITUTE OF ENGINEERING,SATARA	3 RD MAY 2023
79	DESHMUKH ANKITA ANIL	SECOND PRIZE WINNEE	MATRIX 2K23	STATE	DNYANSHREE INSTITUTE OF ENGINEERING,SATARA	3 RD MAY 2023
80	RAUT MAHESH	SECOND PRIZE WINNEE	MATRIX 2K23	STATE	DNYANSHREE INSTITUTE OF ENGINEERING,SATARA	3 RD MAY 2023

EXTRA CO-CURRICULAR ACTIVITIES										
YEAR	YEAR 2022-23									
SR NO	NAME OF STUDENT	RANK	NAME OF THE EVENT	LEVEL	EVENT ORGANIZED INSTITUTE	DATE OF EVENT				
1	PAWAR MAYURI VILAS	RUNNER- UP	KABADI	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	5-4-2023				
2	CHAVAN SHRAVANI PRADIP	RUNNER- UP	KABADI	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	5-4-2023				
4	KATKAR RUTUJA BABASO	RUNNER- UP	KABADI	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	5-4-2023				
5	KUMBHAR SHWETA SAYAJI	RUNNER- UP	KABADI	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	5-4-2023				
6	KUMBHAR VARSHA JOTIRAM	RUNNER- UP	KABADI	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	5-4-2023				
7	SHINGATE KSHITIJA SATISH	RUNNER- UP	KABADI	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	5-4-2023				
8	JADHAV PRAJAKTA VISHWASRAO	RUNNER- UP	KABADI	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	5-4-2023				
10	DESAI GANESH JAGANNATH	PARTICIPA TED	CARROM	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	6-4-2023				
11	RAUT MAHESH HANMANT	PARTICIPA TED	CARROM	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	6-4-2023				

12	KASURDE OMKAR SANDEEP	PARTICIPA TED	CARROM	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	6-4-2023
13	BODAKE YASHRAJ KESHAV	PARTICIPA TED	CARROM	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	6-4-2023
14	DHAMMKIRTIRAJDHA NAJIKAMBLE	PARTICIPA TED	CARROM	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	6-4-2023
15	PISAL PURUSHOTTAM NARAYAN	PARTICIPA TED	CARROM	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	6-4-2023
16	CHAVAN SANKET HANMANT	PARTICIPA TED	CARROM	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	6-4-2023
17	CHAVAN VAIBHAV VITTHAL	PARTICIPA TED	CARROM	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	6-4-2023
18	KUMBHARDIVYA VIJAY	PARTICIPA TED	BOX CRIKET	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	7-4-2023
19	KHOMANENAMRATA VIJAY	PARTICIPA TED	BOX CRIKET	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	7-4-2023
20	DESAI VISHAKHA ASHOK	PARTICIPA TED	BOX CRIKET	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	7-4-2023
21	CHAVAN NIKITA MAHESH	PARTICIPA TED	BOX CRIKET	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	7-4-2023

22	BHINGARE TEJAL SANJAY	PARTICIPA TED	BOX CRIKET	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	7-4-2023
23	SONAWANE ADITI AVINASH	PARTICIPA TED	BOX CRIKET	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	7-4-2023
24	CHAVAN GAURI DIPAK	PARTICIPA TED	BOX CRIKET	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	7-4-2023
25	BUDHAWALE SAMRUDHEI DILIP	PARTICIPA TED	BOX CRIKET	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	7-4-2023
26	NIKAMVIVEK	RUNNER- UP	BOLLYWOOD HOLLYWOOD AND TOLLYWOOD DAY	STATE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	6-4-2023
27	CHAVAN SHRAVANI PRADIP	PARTICIPA TED	NSS CAMP	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9-3-2023
28	KUMBHAR SHWETA SAYAJI	PARTICIPA TED	NSS CAMP	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9-3-2023
29	SHILEWANT TEJAS VITTHAL	PARTICIPA TED	NSS CAMP	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9-3-2023
30	INDALKAR TEJAS CHANDRAKANT	PARTICIPA TED	NSS CAMP	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9-3-2023
31	NIKAM VIVEK SANTOSH	PARTICIPA TED	NSS CAMP	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9-3-2023

	YEAR 2021-22								
		CO-CU	RRICULAR ACTIVITI	ES					
SR NO	NAME OF STUDENT	RANK	NAME OF THE EVENT	LEVEL	EVENT ORGANIZED INSTITUTE	DATE OF EVENT			
1	MOHITEMANASI SHARAD	PARTICIPATI ON	PROJECT COMPETITION	NATIONAL	KJ SOMAIYA INSTITUTE OF ENGINEERING AND INFORMATION TECHNOLOGY SION,MUMBAI	16 APRIL 2022			
2	MOHITEMANASI SHARAD	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	NATIONAL	ARVIND GVALI COLLEGE OF ENGINEERING	28 TH TO 29 TH APRIL 2022			
3	MOHITEMANASI SHARAD	PARTICIPATI ON	PROJECT COMPETITION	NATIONAL	BHARATIVIDYP EETH COLLEGE OF ENGINEERING PUNE	21 MAY 2022			
4	JADHAVAAKANS HAPRADIP	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	NATIONAL	ARVIND GVALI COLLEGE OF ENGINEERING	28TH TO 29TH APRIL 2022			
5	GHATEHARSHALI	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	NATIONAL	ARVIND GVALI COLLEGE OF ENGINEERING	28TH TO 29TH APRIL 2022			
6	JADHAVAAKANK SHAJADHAV	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	NATIONAL	ARVIND GVALI COLLEGE OF ENGINEERING	28TH TO 29TH APRIL 2022			
7	NIKITA SURESH KENJALE	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-04-2022 TO 29-04-2022			
8	KATKAR PRATIK BABURAO	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-04-2022 TO 29-04-2022			

9	MOHITE SALONI DATTATRAY	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-04-2022 TO 29-04-2022
10	SABLE SHUBHAM RAVINDRA	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-04-2022 TO 29-04-2022
11	JADHAV PRATIKSHA SHASHIKANT	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-04-2022 TO 29-04-2022
12	DESAI GANESH JAGANNATH	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-04-2022 TO 29-04-2022
13	KADAM ROHIT RAVINDRA	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-04-2022 TO 29-04-2022
14	KADAM ROHIT VISHWAS	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-04-2022 TO 29-04-2022
15	NIKAM VIVEK SANTOSH	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-04-2022 TO 29-04-2022
16	BODAKE YASHRAJ KESHAV	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-04-2022 TO 29-04-2022
17	SAYYAD TANVEER TAYUB	PARTICIPATI ON	INTERNAL HACKATHON OF SMART INDIA HACKATHON 2022	INSTITUTE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	28-04-2022 TO 29-04-2022

18	PAWAR SNEHAL SUNIL	PARTICIPATI ON	PROJECT COMPITATION	NATIONAL	DULATRAOAA HER COLLEGE OF ENGINEERING, KARAD	20-05-2022
19	NIKAM VIVEK SANTOSH	PARTICIPATI ON	PROJECT COMPITATION	NATIONAL	DULATRAOAA HER COLLEGE OF ENGINEERING	20-05-2022
20	KADAM ROHIT VISHWAS	PARTICIPATI ON	PROJECT COMPITATION	NATIONAL	DULATRAOAA HER COLLEGE OF ENGINEERING	20-05-2022
21	BODAKE YASHRAJ KESHAV	PARTICIPATI ON	PROJECT COMPITATION	NATIONAL	DULATRAOAA HER COLLEGE OF ENGINEERING	20-05-2022

Table 4.6.3.c

YEAR 2021-22

Extra Co-curricular activities

SR NO	NAME OF STUDENT	RANK	NAME OF THE EVENT	LEVEL	EVENT ORGANIZED INSTITUTE	DATE OF EVENT
1	CHAVAN NIKITA MAHESH	VOLUNTE ER	SATARA HILL MARATHON	STATE	SATARA RUNNERS	18/09/2022
2	KHOMANENAMRATAVIJ AY	VOLUNTE ER	SATARA HILL MARATHON	STATE	SATARA RUNNERS	18/09/2022
3	BHISE VAISHNAVI RAJENDRA	VOLUNTE ER	SATARA HILL MARATHON	STATE	SATARA RUNNERS	18/09/2022
4	DESHMUKH ANKITA ANIL	VOLUNTE ER	SATARA HILL MARATHON	STATE	SATARA RUNNERS	18/09/2022
5	CHAVAN SHRAVANI PRADIP	VOLUNTE ER	SATARA HILL MARATHON	STATE	SATARA RUNNERS	18/09/2022

Table 4.6.3.d

YEAR 2020-21

Co-curricular activities

SR NO	NAME OF STUDENT	RANK	NAME OF THE EVENT	LEVEL	EVENT ORGANIZED INSTITUTE	DATE OF EVENT
1.	DHALE HARDIKA HEMANT	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021
2.	DEDE PRADIP ANKUSH	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021
3.	NIKITA MADHAV PIMPALKAR	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021
4.	ASMITA ARVIND PATIL	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021
5.	SHINDE ROHINI HANAMANT	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021
6.	BAGAL POONAM ANANDRAO	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021
7.	PRADNYA POPAT GIDDE	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021
8.	LAXMI BANAN WANDARE	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021
9.	LAWAND AMRUTA SHIVAJI	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021
10.	PISE MADHURI MADHUKAR	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021

11.	JANGAM PRITEE SANJAY	PARTICIPATI ON	PRAYOG - 2021	9TH APRIL 2021		
12.	SAKATE RAHUL SIDDHARTH	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021
13.	JADHAV KOMAL VILAS	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021
14.	GARUD ASHISH ADHIKRAO	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021
15.	KAKADE RUSHIRAJ RAJIV	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021
16.	MASAL SHANKAR MARUTI	PARTICIPATI ON	PRAYOG - 2021	STATE LEVEL PROJECT EXHIBITION	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	9TH APRIL 2021

Table 4.6.3.e

Extra Co-curricular activities

SR NO	NAME OF STUDENT	RANK	NAME OF THE EVENT	LEVEL	EVENT ORGANIZED INSTITUTE	DATE OF EVENT
1	KUMBHARKAR VAIBHAV VILAS	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA RUNNERS FOUNDATION	12-12-2021
2	CHOUGALE SHUBHANGI SANJAY	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA RUNNERS FOUNDATION	12-12-2021
3	SANKPAL NAMRATA NETAJI	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA RUNNERS FOUNDATION	12-12-2021
4	BAHULEKAR PALLAVI BALKRUSHNA	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA RUNNERS FOUNDATION	12-12-2021
5	LAXMI BANAN WANDARE	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA RUNNERS FOUNDATION	12-12-2021
6	AKASH JAGANNATH DATE	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA RUNNERS FOUNDATION	12-12-2021
7	PAWAR SANCHITA NANASO	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA RUNNERS FOUNDATION	12-12-2021
8	CHAVAN GOURI ASHOK	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA RUNNERS FOUNDATION	12-12-2021
9	PIYUSH NARESH KARANDE	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA RUNNERS FOUNDATION	12-12-2021
10	LAWAND AMRUTA SHIVAJI	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA RUNNERS FOUNDATION	12-12-2021

Table 4.6.3.f

YEA	YEAR 2019-20												
CO-0	CURRICULAR ACTIV	TTIES											
SR NO	NAME OF STUDENT	RANK	NAME OF THE EVENT	LEVEL	EVENT ORGANIZED INSTITUTE	DATE OF EVENT							
1	BHASKARSYOGIT A	2ST PRIZE	AVISHKAR 2019-2020	DISTRICT LEVEL		6-01-2020							
2	RAO ARCHANA RAVIKUMAR	PARTICIPAT ION	WORKSHOP ON ENERGY CONSERVATION AND AUDIT	DISTRICT LEVEL	SIT	28-11-2019							
3	GITEPRADNYAPO PAT	RUNNERUP	AVISHKAR PROJECT COMPETITION 2019- 2020	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING SATARA	19-10-2019							
4	SANKPAL NAMRATA NETAJI	PARTICIPAT ION	AVISHKAR COMPETITION 2019- 2020	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING SATARA	19-10-2019							
5	BAHULEKAR PALLAVI BALKRUSHNA	PARTICIPAT ION	AVISHKAR PROJECT COMPETITION 2019- 2020	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING SATARA	19-10-2019							
6	LAXMI BANAN WANDARE	PARTICIPAT ION	AVISHKAR PROJECT COMPETITION 2019- 2020	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING SATARA	19-10-2019							
7	AKASH JAGANNATH DATE	PARTICIPAT ION	AVISHKAR PROJECT COMPETITION 2019- 2020	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING SATARA	19-10-2019							
8	DUBOLE PRIYANKA	PARTICIPAT ION	AVISHKARPROJECT COMPETITION 2019- 2020	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING SATARA	19-10-2019							
9	GUDBAL JAYASHRI	PARTICIPAT ION	AVISHKARPROJECT COMPETITION 2019- 2020	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF	19-10-2019							

					ENGINEERING SATARA	
10	JADHAV MANASI	PARTICIPAT AVISHKAR PROJE ION COMPETITION 201 2020		INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING SATARA	19-10-2019
11	KADAM MANISHA	PARTICIPAT ION	AVISHKAR PROJECT COMPETITION 2019- 2020	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING SATARA	19-10-2019
12	KADAM RADHIKA	PARTICIPAT ION	AVISHKAR PROJECT COMPETITION 2019- 2020	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING SATARA	19-10-2019
13	KADAM SAGAR	PARTICIPAT ION	AVISHKAR PROJECT COMPETITION 2019- 2020	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING SATARA	19-10-2019
14	KRISHNA AKASH	PARTICIPAT ION	AVISHKARPROJECT COMPETITION 2019- 2020	INSTITUTE LEVEL	ARVIND GAVALI COLLEGE OF ENGINEERING SATARA	19-10-2019
15	BAGAL POONAM ANANDRAO	PARTICIPAT ION	IJSRET 2020	INTERNATIO NAL	INTERNATIONA L JOURNAL OF SCIENTIFIC RESEARCH AND ENGINEERING TRENDS	18/5/2020- 23/05/2020
16	MALI RUTUJA SHANKAR	PARTICIPAT ION	IJSRET 2020	INTERNATIO NAL	INTERNATIONA L JOURNAL OF SCIENTIFIC RESEARCH AND ENGINEERING TRENDS	18/5/2020- 23/05/2020
17	KULKARNI OMKAR RAJENDRA	PARTICIPAT ION	IJSRET 2020	INTERNATIO NAL	INTERNATIONA L JOURNAL OF SCIENTIFIC RESEARCH AND ENGINEERING TRENDS	18/5/2020- 23/05/2020

18	SNEHALJADHAV	PARTICIPAT ION	WORKSHOP ON ENERGY CONSERVATION AND AUDIT	DISTRICT LEVEL	SIT	28-11-2019
19	RAVIRAJMOHITE	PARTICIPAT ION	WORKSHOP ON ENERGY CONSERVATION AND AUDIT	DISTRICT LEVEL	SIT	28-11-2019

Table 4.6.3.g

Extra Co-curricular activities

SR NO	NAME OF STUDENT	RANK	NAME OF THE EVENT	LEVEL	EVENT ORGANIZED INSTITUTE	DATE OF EVENT
1	KHATTEAVISHKARBALKRISHNA	PARTICIPATION	КНО-КНО	UNIVERSITY	DR. BABASAHEBAMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE, MAHARASHTRA, INDIA	26TH TO 30TH DEC 2019
2	RAO ARCHANA RAVIKUMAR	PARTICIPATION	KHO-KHO (WOMEN)	STATE LEVEL	SAWKAR PHARMACY COLLEGE, SATARA	11/10/2019- 13/10/2019
3	CHAVAN AAKANKSHA JAYWANT	PARTICIPATION	KHO-KHO (WOMEN)	SAWKAR PHARMACY COLLEGE, SATARA	11/10/2019- 13/10/2019	
4	JEDHEDESHMUKH PIYUSH DUSHYANT	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA HILL MARATHON	25/07/2019
5	GODSE GANESH ANKUSH	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA HILL MARATHON	25/07/2019
6	MOHITE RAVIRAJ DHANANJAY	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA HILL MARATHON	25/07/2019
7	SHINDE ROHITKUMAR PRABHAKAR	VOLUNTEER	SATARA HILL MARATHON	STATE LEVEL	SATARA HILL MARATHON	25/07/2019

Table 4.6.3.h

CRITERION	Faculty Information and Contributions	200
		200
05		
03		

Faculty Information: Academic Year: 2022 – 2023

		Ç	Qualificatio	n				D	istribution	of teachi	ng load (9	6)	Academ	ic Rese	arch			
7	Name of Fac		U	Year	CurrentD	All Designations si	Date of J Insti	First Year		UG		PG	FacultyReceivingP h.D.during			SponsoredResearc	ConsultancyandPi	Specal
10	ultyMember	M.Tech JNTU 05/02 Hyd. 4	or aduation 05/02/201 Association		ncejoining institute	ution		Serving 100 % Inprogram	r rom otherprogramtothisprogr am	Fromthis program tootherprogram		TheAssessmentYears	Guida	Pap	h(FundedResearc)	roductDevelopmet	lisation	
1	MEGHYA NAYAK BANOTH	M.Tech	JNTU Hyd.	05/02/201 4	Associate Professor.	Assistant Professor, Associate Professor.	1/7/2014	0	100		0			NIL	10			Electri cal
2	PARVATHI ISLAVATH	M.Tech	JNTU Hyd.	10/12/201 4	Assistant Professor	Assistant Professor	15/06/201 5	0	100		0			NIL	1			Power Electro nics. &Elex. Drv.
3	BASAVAR AJ NELOGAL	M.Tech		03/09/201 5	Assistant Professor	Assistant Professor	01/01/201 6	0	100		0			NIL	2			Industr iaElect ronics
4	SOMPURA SOMESHA NAIK	M.Tech		01/01/201 8	Assistant Professor	Assistant Professor	01/01/201 9	0	100		0			NIL	2			Power Electro nics
5	HRUTUJA BHUTKAR	M. Tech	Shivaji Universit y	31/10202 0	Assistant Professor	Assistant Professor	17/03/202 1	0	100		0			NIL	1			Power Syste m
6	JIVAJEE BICHKAR	M. Tech	Shivaji Universit y	31/10/202 0	Assistant Professor	Assistant Professor	01/10/202 0	0	100		0			NIL	1			Power Syste m
7	ASHALESH A MALI	M. Tech	Shivaji Universit y	12/01/202 2	Assistant Professor	Assistant Professor	01/12/202 1	0	100		0			NIL	2			Power Syste m

Faculty Information: Year 2021-2022

		Qu	ualificati	on				Dist	Distribution of teaching load (%)		Acad	Academic Research							
	Name of F			Үеа	Current	All Designations	Date of Joini	1st Year	st UG ar		UG		P G	racuity RecevingPh. Dduring	racuty RecevingPh.		SponsoredResea	Consultancyand	Spec
	aculty Member	Degree	University	r of Graduation	Designation	since joining institute	ng the Institution		Serving 100 % In program	Fromotherprogram to this program	From this program to other program		TheAssesmentYears	.D.Guidance	Paper Publications	h(FundedResearc)	ProductDevelopmet	alisation	
1	MEGHYA NAYAK BANOTH	M.Tech	JNTU Hyd.	05/02/201 4	Associate Professor.	Assistant Professor, Associate	1/7/2014	0	100		0			NIL	10			Electri cal	
						Professor.													
2	PARVATHI ISLAVATH	M.Tech	JNTU Hyd.	10/12/201 4	Assistant Professor	Assistant Professor	15/06/201 5	0	100		0			NIL	1			Power Electro nics. &Elex. Dry.	
3	SHITAL JADHAV	ME	Shivaji Univer sity	23/7/2015	Assistant Professor	Assistant Professor	11/05/201 4	0	100		0			NIL	4			Power System	
4	BASAVAR AJ NELOGAL	M.Tech		03/09/201 5	Assistant Professor	Assistant Professor	01/01/201 6	0	100		0			NIL	2			Industr iaElect ronics	
5	SOMPURA SOMESHA NAIK	M.Tech		01/01/201 8	Assistant Professor	Assistant Professor	01/01/201 9	0	100		0			NIL	2			Power Electro nics	
6	EVA GUPTA	M.Tech	JNTU HyD	25/05/201 6	Assistant Professor	Assistant Professor	05/02/202 0	0	100		0			NIL	2			Power Dist. Spec. in smart grids	
7	HRUTUJA BHUTKAR	M. Tech	Shivaji Univer sity	31/10202 0	Assistant Professor	Assistant Professor	17/03/202 1	0	100		0			NIL	1			Power System	
8	JIVAJEE BICHKAR	M. Tech	Shivaji Univer sity	31/10/202 0	Assistant Professor	Assistant Professor	01/10/202 0	0	100		0			NIL	1			Power System	
9	ASHALESH A MALI	M. Tech	Shivaji Univer sity	12/01/202 2	Assistant Professor	Assistant Professor	01/12/202	0	100		0			NIL	2			Power System	
10	PURANIK VIVEK VINAYAK	M.Tech		20/12/201 9	Associate Professor.	Associate Professor.	01/04/202	0	100		0			NIL	5			Electri cal	

Faculty Information: Year 2020-2021

		Q	ualificati	on				Distri	bution	of teach	ing load	(%)	Acad	lemic Re	esearch			
	Name of			Y	Curre	All Designation	Date of Jo	1st Year		UG		P G	Faculty RecevingPh.D during		Resear	SponsoredRes	Consultancyaı	SI
	Faculty Member	Degree	University	rr of Graduation Thiversity	Designation	since joining institute Assistant	ng the Institution		Serving 100 % In program	Fromotherprogram to this program	TheAssesmentYears		TheAssesmentYears	Ph.D.Guidance	ch Paper Publications	earch(FundedResearc)	ndProductDevelopmet	becalisation
1	MEGHYA NAYAK BANOTH	M.Tech	JNTU Hyd.	05/02/201 4	Associate Professor.	Assistant Professor, Associate Professor.	01/07/2014	0	100		0			NIL	10			Power & Indus. Drives
2	VISHAKHA GAIKWAD	M.Tech		31/12/201 9	Assistant Professor	Assistant Professor	06/11/2014		100		0			NIL	4			Power Syste m
3	PARVATHI ISLAVATH	M.Tech	JNTU Hyd.	10/12/201 4	Assistant Professor	Assistant Professor	15/06/2015		100		0			NIL	1			Power Electro nics. &Elex. Drv.
4	SHITAL JADHAV	ME		23/7/2015	Assistant Professor	Assistant Professor	11/05/2014		100		0			NIL	4			Power Syste m
5	BASAVAR AJ NELOGAL	M.Tech		03/09/201 5	Assistant Professor	Assistant Professor	01/01/2016		100		0			NIL	2			Industr ial Electro nics
6	SOMPURA SOMESHA NAIK	M.Tech		01/01/201 8	Assistant Professor	Assistant Professor	01/01/2019		100		0			NIL	2			Power Electro nics
7	EVA GUPTA	M.Tech		25/05/201 6	Assistant Professor	Assistant Professor	05/02/2020		100		0			NIL	1			Power Dist. Spec. in smart grids
8	JIVAJEE BICHKAR	M. Tech		31/10/202 0	Assistant Professor	Assistant Professor	01/10/2020		100		0			NIL	1			Power Syste m
9	PURANIK VIVEK VINAYAK	ME	Shivaji Univer sity	07/06/200 7	Professor	Professor.	01/04/2020		100		0			NIL	0			Electri cal

5.1 Student – Faculty Ratio (SFR) (20)

(To be calculated at Department Level)

No. of UG Programs in the department (n): 01

No. of PG programs in the department (m): 00

No. of students in UG 2^{nd} Year = u1

No. of students in UG 3^{rd} Year = u2

No. of students in UG 4^{th} Year = u3

No. of students in PG 1^{st} Year = p1

No. of students in PG 2^{nd} 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 + UG3 + PG1 + PG2

F = Total Number of faculty members in the department (excluding the first year faculty)

Student Teacher Ratio (STR) = S/F

Year	CAY	CAY1	CAYm2
u1.1	30 + 3	30 + 3	30 + 3
u1.2	30 + 3	30 + 3	60 + 6
u1.3	30 + 3	60 + 6	60 + 12
UG1 = u1.1 + u1.2 + u1.3	99	132	171
Total no. of students in the department (S) = UG1 + UG2 + + UGn + PG1 + +PGn	99	132	171
No. of faculty in the department(F)	7	F1 = 10	F2 = 09
Student Faculty Ratio(SFR)	SFR1=S 1/F1= 14.14	SFR2=S1/ F1 = 13.20	SFR3=S2 /F2 = 19:00
Average SFR	SFR=(SFR	1+SFR2+SFR3)	3 = 15.44

Table B.5.1

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

Table 5.1.1

	Total number of	Total number
	regular faculty in	of contractual
	the department	faculty in the
		department
CAY	7	0
CAYm1	10	0
CAYm2	09	0
CAYm3	10	0

5.2 Faculty Cadre Proportion (20)

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 the no. of students (N) as per 5.1

F2: Number of Associate Professors required = $2/9 \times 10^{-1} \times 10^{-1}$ x number of faculty required to comply with 20:1 Student-Faculty ratio based on the no. of students (N) as per 5.1

F3: Number of Assistant Professors required = $6/9 \times 10^{10} \times 10$

Veer	Professors		Associate Professors		Assistant Professors	
Year	Required F1	Available	RequiredF2	Available	Required F3	Available
CAY	0.55	0	1	1	3.3	6
CAYm1	0.73	1	1.46	1	4.4	8
CAY <i>m</i> 2	0.95	1	1.9	0	5.7	08
CAY <i>m</i> 3	1.05	0	2.1	0	6.3	10
Average Numbers	RF1=0.74	AF1=0.66	RF2=1.45	AF2=0.66	RF3=4.46	AF3=7.33

Table B.5.2

Cadre Ratio Marks =
$$\left[\left[\frac{AF1}{RF1} \right] + \left[\frac{AF2}{RF2} \times 0.6 \right] + \left[\frac{AF3}{RF3} \times 0.4 \right] \right] \times 12.5$$

= $\left[\left[\frac{0.66}{0.74} \right] + \left[\frac{0.66}{1.45} \times 0.6 \right] + \left[\frac{7.33}{4.46} \times 0.4 \right] \right] \times 12.5 = 22.77$

If AF1 = AF2 = 0 then zero marks

Maximum marks to be limited if it exceeds 25

Example: Intake = 60 (i.e. total no. of students= 180); Required number of Faculty: 9; RF1= 1, RF2=2 and RF3=6

Case 1: AF1/RF1= 1; AF2/RF2 = 1; AF3/RF3 = 1; Cadre proportion marks = (1+0.6+0.4) x 12.5 = 25

Case 2: AF1/RF1= 1; AF2/RF2 = 3/2; AF3/RF3 = 5/6; Cadre proportion marks = (1+0.9+0.3) x12.5 = limited to 25

Case 3: AF1/RF1=0; AF2/RF2=1/2; AF3/RF3=8/6; Cadre proportion marks = (0+0.3+0.53) x 12.5 = 10.4

5.3 Faculty Qualification (25)

 $FQ = 2.5 \times [(10X + 4Y)/F)]$ 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	X	Y	F	FQ=2.5x[(10X+4Y)/F)]
САҮ	1	6	4.95	17.17
CAYm1	2	8	6.6	19.69
CAYm2	1	8	8.55	12.28
CAYm3	0	10	9.45	10.58
Average Assessment				14.18

|--|

5.4 Faculty Retention (25)

No. of regular faculty members in CAYm3 = 10 (Required faculty = 09)

No. of regular faculty members in CAYm2=09 (Required faculty = 09)

No. of regular faculty members in CAYm1=10 (Required faculty = 09)

No. of regular faculty members in CAY=7 (Required faculty = 06)

% of faculty retained during the period of assessment = $(10/9) \times 100\%$ =

% of faculty retained during the period of assessment = $(12/15) \times 100\%$ =

Year	CAY (2022 – 2023)	CAY m1 (2021- 2022)	CAYm2 (2020- 2021)
No. of Faculty in the base year (2019 – 2020)	07	10	09
No. of Faculty Retained	04	05	06
Faculty Retention (%)	57%	50%	66.6%

Average Retention (%) = 57.86%

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

Sr.	Sub-	Sub-Criteria	Marks	Expected
No.	Criteria			Marks
1	5.1	Student-Faculty Ratio	20	19
	5.1.1	Regular and Contractual Faculty		
2	5.2	Faculty-Cadre Proportion	20	16.5
3	5.3	Faculty Qualification	25	15.08
4	5.4	Faculty Retention	25	15
5	5.5	Innovations by the faculty in Teaching and Learning	20	10
6	5.6	Faculty as participants in Faculty Development/training activities/STTPs	15	5
7	5.7	Research and Development	30	
	5.7.1	Academic Research (10)		0
	5.7.2	Sponsored Research (5)		0
	5.7.3	Development Activities (10)		5
	5.7.4	Consultancy (from Industry) (5)		0
8	5.8	 Faculty Performance Appraisal and Development System (30) A well-defined system for faculty appraisal for all the assessment years (10) Its implementation and effectiveness (20) Visiting/Adjunct/Emeritus faculty, etc (10) 		5 5 5
Total				112 Marks

Criteria 5: Faculty Information and Contribution [Calculated Marks]

5.5 Innovations by the Faculty in Teaching and Learning

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

Contributions to teaching and learning are activities that contribute to the improvement of student learning. These activities may include innovations not limited to, use of ICT, instruction delivery, instructional methods, assessment, evaluation, and inclusive class rooms that lead to effective, efficient, and engaging instruction.

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

- The work must be made available on Institute 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 statement of clear goals, adequate preparation, use of appropriate methods, and significance of results, effective presentation and reflective critique.

The faculty members of Electrical 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

MOODLE (Modular Object-Oriented Dynamic Learning Environment)

The Institute has configured learning platform which is available 24×7 to the faculty and the students. The faculty has been using MOODLE, since 2019. Using MOODLE the faculty have created courses in their respective programs. Assignment questions, course material, presentations, and other material needed by the students for study purpose, is uploaded on MOODLE (Screenshot attached). The students are enrolled after access is given to them, by the MOODLE administrator.

Students can be automatically enrolled to the course with access rights given by the faculty as per their role in the course. Using MOODLE, faculty can maintain attendance of students, monitor their progress in exams, and maintain student assignments, internal exam data.

(20)

MOODLE Screenshot/Screen Print:

1 Announcements

Attendance 2022-23	\checkmark
DBATU EM-1 Previous QP	\checkmark
Text Books & Reference Books	\checkmark
Text Books :	
1. J. B. Gupta," Theory and Performance of Electrical Machines," S. K. Kataria& Sons, New Delhi	
2. P. S. Bimbra," Electrical Machinery", Khanna Publishers	
3. B. L. Theraja, A. K. Theraja," A text book of Electrical Technology," S. Chand Publishers	
4. Asfaq Hussein," Electric Machines," Danpat Rai Publisher	
Reference Books :	
1. Bhattacharya S. K, "Electrical Machines",(Tata McGraw Hill Publications)	
2. Kothari Nagrath, "Electrical Machines", (Tata McGraw Hill Publications)	
3. M. N. Bandopadhyay, "Electrical Machines", (Tata McGraw Hill Publications)	
4. Fitzaralda, "Electrical Machines", (Tata McGraw Hill Publications)	
COs	\checkmark
CO1: Evaluate construction and operation of single and three phase Transformers.	
CO2: Analyze the various principles & concepts involved in Electromechanical Energy conversion.	

CO3: Describe the operation of dc generators and its characteristics and analyze the speed control techniques and testing methods of dc motors.

CO4: Ability to understand working, characteristics & applications of D.C. Special Electrical Machines (VRM, motors,

Figure 5.5(1.a) Screenshot of MOODLE Page of EM-I (Electrical)-sem-III

EM-1_CA-1 Objective Examination(11/10/2022)				
C4-1 Objective Examination(11/10/2022)				
1. Exam is MCQ based on Unit 1 & 2,				
2. Time 10 Min				
3. All Questions Carry equal marks				
MID Sem Objective base Exam (08/11/2022)	V			
1. Test based on objective questions.				
2. There are 4 objective questions .				
3. Each question carries ONE mark.				
4. No negative marking for wrong answer.				
EM-1_CA-2 Objective Examination(13/12/2022)	Ø			
1. Exam is MCQ based on Unit- 5 & 6,				
2. Time 10 Min				
3. All Questions Carry equal marks				
Unit 1: Single Phase Transformer				
Unit-1 PPT & Notes	V			
Sinole Phase Transformer	N			

Figure 5.5(1.b) Screenshot of MOODLE Page of EM-I (Electrical)-sem-III

Attendance 2022-23	V
CA-1 Examination	
EM-II_CA-1 Objective base examination(26/4/2023)	3
1. Test based on objective questions.	
2. There are 2 objective questions .	
3. Each question carries ONE mark.	

4. No negative marking for wrong answer.

MiD Examination

V EM-II MiD sem Objective based Examination (26/05/2023)

1. Test based on objective questions.

2. There are 4 objective questions .

3. Each question carries ONE mark.

4. No negative marking for wrong answer.

Figure 5.5(1.c) Screenshot of MOODLE Page of Electrical Machine-II (Electrical)-Sem-IV

 \checkmark

h	Attendance 2022-23	\checkmark
	Syllabus	\checkmark
×	PSA Lesson Plan	\checkmark
	Text books & Reference Books	\checkmark
	Text books:	
	1. I.J. Nagrath& D.P. Kothari, "Modern System Analysis", Tata McGraw- Hill	
	2. Stevenson W.D "Elements of Power System Analysis", McGraw- Hill Wadhawa C.L "Elements Power System", John Wiley & sons.	
	Reference Books:	
	1. "Power System Analysis", T.K. Nagsarkar, M.S. Sukhiya. (OXFERD U. P.)	
	2. Stevenson W.D. and Grainger J.J. "Power System Analysis" McGraw- Hill	
	3. A.R. Bergen and Vijay Vittal, Power Systems Analysis, Pearson Education Asia, 2001.	
	4. Stagg W.D. & El-AbiadA.H., "Computer Method in Power System Analysis", McGraw- Hill	
	5. H.Saadat "Power System analysis", McGraw- Hill	
	6. Elgred O.I. electrical Energy System Theory", McGraw-Hill.	
	7. J.D. Glover, M. Sarma and T.J. Overbye, Power System Analysis and Design, Fourth Edition, Thomson Engineering Press, 2008.	
	Objectives	\checkmark
	The main objectives of this subject are as follows:	
	(1) To teach the students how to represent three phase system in single phase representation.	
	(2) To teach the student about calculation of three phase symmetrical faults current and design proper circuit breakers for various equipment of power system.	
	(3) To teach the students about the calculation of unsymmetrical faults occurred in the power system.	
	(4) To teach the students about various iterative methods of load flow analysis and their comparison in order to select the best suitable method for load flow analysis.	
	Course Outcomes (COs)	\checkmark

Figure 5.5(1.d) Screenshot of MOODLE Page of PSA (Electrical)-sem-V

CA-1 Exam

CA- 1 Objective Exam	Ø
All questions are compuldary	
Each question carry 1 mark	
time 10 min	
PSA_ MID Sem objective based Examination(7/11/2022)	
1. Test based on objective questions.	
2. There are 4 objective questions ,	
3. Each question carries ONE mark.	
4. No negative marking for wrong answer.	
VSA_CA-2 Objective based Examination(12/12/2022)	
1. Test based on objective questions.	
2. There are 2 objective questions .	
3. Each question carries ONE mark.	
4. No negative marking for wrong answer.	
Jnit 1: Modeling of Power System	
PPT & Notes	V

PPT & Notes

Figure 5.5(1.e) Screenshot of MOODLE Page of Power System Analysis (Electrical)-SEM-V

Ą	L Attendance	V
	CONTROL SYSTEM ENGINEERING (BTEEC603)	V
	Text Books/Reference Books:	
	1. Ogata K., "Modem Control Engineering", Prentice Hall of India.	
	2. Kuo B. C., "Automatic Control System", Prentice Hall of India.	
	3. Nagarath I. J. and Gopal M., "Control System Engineering", Willey Eastern.	
	4. Norman S. Nice, "Control System Engineering", Wiley.	
	5. Smarajit Ghosh, "Control Systems Theory & Applications", Pearson.	
	6. Gopal M., "Control System", Prentice Hall of India.	
Ē	Course Objectives:	V
	Course Objectives:	
	• To introduce different types of system and identify a set of algebraic equations to represent and model a complicated system into a more simplified form to interpret different physical and mechanic systems in terms of electrical system to construct equivalent electrical models for analysis.	al
	• To employ time domain analysis to predict and diagnose transient performance parameters of the system for standard input functions and identify the needs of different types of controllers and compensator to ascertain the required dynamic response from the system	
	Formulate different types of analysis in frequency domain to explain the nature of stability of the system.	
P	Course Outcomes	\checkmark

CO1 Determine and use models of physical systems in forms suitable for use in the analysis and design of control systems.

CO2 Employ time domain analysis to predict and diagnose transient performance parameters of the system for standard input functions.

Figure 5.5(1.f) Screenshot of MOODLE Page of Control System (Electrical)-sem-VI

 \checkmark

 \checkmark

CO4 Describe the needs of different types of controllers and compensator to ascertain the required Dynamic response from the system.

CA-1 Examination

CSE_ CA-1 Objective Based Examination(21/03/2023)

1. Exam is MCQ based on Unit:- 1 & 2,

2. Time 10 Min

3. All Questions Carry equal marks.

CS MiD Examination

V CS_ MiD Sem Objective based Examination (26/4/2023)

1. Test based on objective questions.

2. There are 4 objective questions .

3. Each question carries ONE mark.

4. No negative marking for wrong answer.

Figure 5.5(1.g) Screenshot of MOODLE Page of Control System (Electrical)-SEM-VI
V	PSOC CA-1 Objective Examination (10/10/2022)	V
	1. Exam is MCQ based on Unit:- 1 & 2,	
	2. Time 10 Min	
	3. All Questions Carry equal marks	
88	CA-1 Exam Assignments Answer sheets	V
	Kindly all of you submit CA-1 Assignment answer sheets here	
V	PSOC_MiD Sem Objective based Examination(7/11/2022)	V
	1. Test based on objective questions.	
	2. There are 4 objective questions .	
	3. Each question carries ONE mark.	
	4. No negative marking for wrong answer.	
V	PSOC_CA-2 Objective Examination (12/12/2022)	V
	1. Exam is MCQ based on Unit:- 5 & 6,	

2. Time 10 Min

Figure 5.5(1.h) Screenshot of MOODLE Page of PSOC (Electrical)-SEM-VII

 \square

 \checkmark

 \checkmark

DBATU Syllabus

CA-1 Objective Based Exam(19/03/2023)

CA-1 EE _Objective based Examination(19/03/2023)

- 1. Exam is MCQ based on Unit:- 1 & 2,
- 2. Time 10 Min
- 3. All Questions Carry equal marks

🖌 EE_MiD Sem Objective based exam (13/05/2023)

- 1. Test based on objective questions.
- 2. There are 4 objective questions .
- 3. Each question carries ONE mark.
- 4. No negative marking for wrong answer.

CA-1 Examination Material

Figure 5.5(1.i) Screenshot of MOODLE Page of EE (Electrical)-SEM-VIII

Timetable:

The Institute academic calendar which is accordance with the academic calendar of Dr.BabasahebAmbedkar Technological University, Lonere, Maharashtra, India, is made available on the Institute website, displayed on department and laboratory notice boards. The same also distributed to the students via student Whatsapp groups.

									Arvind Gavali College of Engineering, Satara Academic Calendar 2022-23 Term-I
-	-	-				-	-	All Sent.	Commencement of Classes and Admissions: B.Tech Second, Third and Final Year; M.Lech Second
		-	Septer	ther-202	2		-	1.TO Rebut	Year ANNAYAM/Courses Certification
k S	UN M	ON T	UE V	VED TH	IU I	FRI	SAT	1 Sept19 Dec.	M Tech Dissertation Exam of A.Y. 2021-22
		-	-	1	1	2	3	1-10 Sept.	Teacher's Day Celebration & Nirmalys collection activity
	4	5	6	7 1	8	9	10	5 Sept.	Guest Lecture/Industrial Visit/ Statutory Committee meeting
	11.	12	13	14 1	15	16	17	5-10 sept.	Induction Program
	18	19	20	21 2	12	23	24	0-23-38pt.	Formation of Project Batches & Domain Selection
	25	26	27	28 3	29	30	-	12 Sept.	Engineers Day Celebration and Convocation Ceremany
L								15-10 Sept.	Satara Hill Half Marathon
								10 Sent	Synapsis Submission
								24 Sect.	Synopsis Approval
								24 Sect.	No Vehicle Day
								26-30 Sept.	CA1 Objectice and Descriptive Examination
+	- 4	in Days	- 16		-	-	-	Probable Holiday	s: 09 September: Anant Chaturdashi
+	Academic Days: 25						-	1-2 Oct.	Swachh Bharat Abhiyan
+	er in la	Inon	THE	WED	THU	FRI	SAT	3-8 Oct.	Guest Lecture/Industrial Visit/ Statutory Committee meeting
.81	SUN I	WD/N	IUE	-AED		1.11	1	8 Oct.	Display of Attandance, List of defaulter students and Letter dispatching
+	-	-		5	6	7	8	7-8 Oct.	International Conference
+	2	3	11	12	13	14	15	8 Oct.	Workshop on Entreprenuership Development Phases
-	10	17	18	19	20	21	22	12-21 Oct.	Mid Semester Examination
+	10	24	20	20	27	28	29	18-21 Oct.	Submission of M.Tech Dissertation Proposal to University
-	23	20	65			-	-	29 Oct.	No Vehicle Day
4	30	31	-	-	-	-	-	28-31 Oct.	Display of Mid Semester Exam Marks
-						-		Probable Holida	ys: 2 October: Mahatma Gandhi Jayanti; 5 October: Dussenra, 9 October: Eld C-meau, 24 October:
1	Acaden	nic Day	rs: 23		_	_	_	Diwali Laxmi Pu	an, 26 October: Drival Bargrangings
		-	Nov	ember-2	022		1	1-3 Nov.	Scrutiny of master's tool of the statutory Committee meeting
nek	SUN	MON	TUE	WED	THU	FRI	SAT	1-5 Nov.	Direley of Attendance. List of defaulter students and Letter dispatching
0			1	2	3	4	5	5 NOV.	Exam Form Filling for Regular & Supplimentary Examination
1	6	7	8	9	10	11	12	1-6 NOV.	Barante Meet
2	13	14	15	16	17	18	19	5 NOV.	Exam Form Filling for Regular & Supplementary Examinations with Late Fee
8	20	21	22	23	24	25	28	9-15 NOV.	Vilgam 2022
4	27	28	29	30		_	-	10-12 Hov.	University Tech Fest
								15 New	No Vehicle Day
_	-					-		Probable Holid	avs: 8 November: Guru Nanak Jayanti
_	Acade	mic Da	ys: 25		1011	-	-	5-10 Dec.	Guest Lecture/Industrial Visit/ Statutory Committee meeting
_	-	1	De	cember-	2022	1		T 12.17 Dec.	CA2 Objectice and Descriptive Examination
/eel	SUN	MON	TUE	WED	180	1		19 Dec.	End of Classes
14	-	-	-	-	-	+	-	0 19 Dec	Display of Final Attendance, List of defaulter students and Letter dispatching
15	4	5	0	1 14		1	6 1	7 20-23 Dec.	Practical/Project/Seminar Examinations
16	11	12	13	19	23	1	3 3	4 22-24 Dec.	Uploading Internal, Mid Semester, Practical, Project & Seminar marks to University portal
17	18	19	20	20	20	1	0 3	1 24 Dec.	Parents Meet
18	25	26	1 21	20	1 40	-	-	26 Dec21 Ja	End Semester & Supplementary Examination
								31 Dec.	No Vehicle Day
-	Acad	emic D	avs: 27					Probable Hol	days: 25 December: Christmas
-	mido	a crime to	ale: A	anuary-	2023				
Mar	4 51	MO	NTU	E WED	TH	UF	RI 5	AT 26 Dec21 Ja	n. End Semester & Supplementary Examination
1.0	sun	2	3	4	5	1	6	7 2-7 Jan,	Guest Lecture/Industrial Visit/ Statutory Committee meeting
39		1	1	1 11	11	2 1	13	16 22-31 Jan.	Insdustrial Training
20	0	1 1	1	7 38	11	0	20	21 26 Jan.	Republic Day Celebration
21	35		1 1	4 25	2	6	27	28 28 Jan.	No Vehicle Day
21	11	-		1	-	-	-		
2	20	3	0 3	*	1	-	-	Brobable Ha	idays: 14 Jan: Makar Sankrati, 26 Jan: Republic Day Celebration
	ry depa areer G ternedia	iuidano sV Acai	t Shall ce by Ir domica	conduct idustry E ily Bright	the fo sperts t & we	allowi & Ale sak sta	ng proy umni e udents	rams for the curr c. classes	2. Semina, Conference, Workshop, STTP 4. Industry Initiate Interaction Activities (IN-6545)

Figure 5.5(2.a) Academic Calendar for the Academic Year 2022 – 23 (Odd Semester)

		Jer-	AWK STITE	AR					Arvind Gavali College of Engineering, Satara Academic Calendar 2022-23 Term-II					
-	-		Febr	uary-20	23	-	-	1 Feb.	Commencement of Classes					
Inck	SUN	MON	TUE	WED	THU	FRI	SAT	1 Feb27 May	NPTEL/SWAYAM/Coursera Certification					
1	July 1			1	2	3	4	6-11 Feb.	Guest Lecture/Industrial Visit/ Statutory Committee meeting					
2	5	6	7	8	9	10	11	12-18 Feb.	NSS Camp					
3	12	13	14	15	16	17	18	12-18 Feb.	Cultural Days					
4	10	20	21	22	23	24	25	19 Feb.	Celebration of Shivjayanti					
5	26	27	28					20-25 Feb.	Faculty appriciation and Trust day celebation					
-				-			-	21 Feb3 Mar.	Remedial Examination					
								25 Feb.	No Vehicle Day					
								27 Feb 4 Mar.	CA1 Objectice and Descriptive Examination					
-	Acade	mic Day	s: 24					Probable Holiday	i: 18 February Mahashivratri; 19 February: Cha. Shivaji Maharaj Jayanti					
-			M	arch-20	23			21 Feb3 Mar.	Remedial Examination					
Neek	SUN	MON	TUE	WED	THU	FRI	SAT	27 Feb 4 Mar.	CA1 Objectice and Descriptive Examination					
5				1	2	3	4	4 Mar.	Display of Attendance, List of defaulter students and Letter dispatching					
	5	6	7	8	9	10	11	6-11 Mar.	Guest Lecture/Industrial Visit/ Statutory Committee meeting					
4	12	13	14	15	16	17	15	11 Mar.	Alumni Meet					
8	19	20	21	22	23	24	25	18 Mar.	No Vehicle Day					
9	26	27	28	29	30	31		20-24 Mar.	Sports week					
								25 Mar.	Annual Gathering					
-	Acade	mic Da	s: 25					Probable Holiday	s: 8 March:Dhulivandan, 22 March:Gudhi Padwa					
-			1	pril-20	23									
Weel	SUN	MON	TUE	WED	THU	FRI	SAT	1 April	Display of Attendance, List of defaulter students and Letter dispatching					
9							1	3-8 April	Mid Sem Exam					
10	2	3	4	5	6	7	8	3-8 April	Guest Lecture/industrial Visit/ Statutory Committee meeting					
11	9	10	11	12	13	14	15	14 April	Celebration of Dr. Babasaheb Ambedkar Jayanti					
12	16	17	18	19	20	21	22	12-15 April	Display of Mid Semester Marks to Students					
13	23	24	25	26	27	28	29	15 April	Parents Meet					
14	30	30 29 April No				29 April	No Vehicle Day							
	Academic Days: 22 Probable Holidays: 7								7 April: Good Friday, 14 April: Dr. Babasheb Ambedkar Jayanti, 22 April: Namzan Los					
				May-20	23			2-8 May	Exam form filling for Regular & Supplementery Examinations					
Wee	k SUN	MON	TUE	WED	THU	FRI	SAT	6 May	Display of Attendance, List of defaulter students and Letter dispatching					
14		1	2	3	4	5	6	8-13 May	Guest Lecture/Industrial Visit/ Statutory Committee meeting					
	7	8	9	10	11	12	18	9-13 May	Exam form filling for Regular & Supplementery examinations with two loss					
IG	14	15	16	17	18	19	20	20 May	No Vehicle Day					
17	21	22	23	24	25	26	27	22-27 May	CA2 Objectice and Descriptive Examination					
18	28	29	30	31				27 May	End of Classes					
								27 May	Display of Final Attendance, List of defaulter scolents and Letter organizing					
								27 May	Parents Meet					
								29 May- 3 June	University Practical/ Project/ Seminar Examinations					
								31 May- 6 June	Uploading Internal, Mid Semester, Practical, Project & Seminar marks to University portai					
-	Acad	demic D	ays: 25				_	Probable Holida	ays: 1 May: Maharashtra Day, 5 May: Buddha Pournima					
-		•		June-2	023		-		and the second se					
We	ek SU	N MO	N TU	E WE	D TH	U FR	I SA	T 29 May-3 June	University Practical/ Project/ Seminar Examinations					
18					1	2	3	31 May-6 June	Uploading Internal, Mid Semester, Practical, Project & Seminar marks to Onwersky portal					
19	4	5	6	7	8	9	1	5-10 June	Guest Lecture/Industrial Visit/ Statutory committee meesing					
20	1	12	12	14	1	16	5 1	8-30 June	End Semester & Supplementary Examination					
2	1 1	8 19	20	21	2	2 2	3 2	1 21 June	Yoga Day					
2	2 2	5 26	2	28	2	3	0	24 June	No Vehicle Day					
L	Aca	demic (ays: 2	5										
Eve 1. C 3. F	ry dep areer (amedia	artment auidance al/ Acad	shall of by Incomical of the second s	v Bright	the fo xperts t & wee	8 Alum 8 Alum 1k stude	r progr ni etc. ents cla	and for the curren	2. Seminar, Conference, Workshop, STTP 4. Industry-Institute Interaction Activities EII-6545 Arvind Gov/I College of					

Figure 5.5(2.b) Academic Calendar for the Academic Year 2022 – 23 (Even Semester)



Figure 5.5(2. c) Time table for ODD Semester (2022 – 23)



Figure 5.5 (2. d) Time tables for Even Semester (2022 – 23)

The timetable for the weekly lectures and practicals, is made available to the students well in advance, and displayed on the department notice boards. Course syllabus is displayed and made available to the students via the student Whatsapp groups.

• Lesson Plan:

The lesson plan for the individual subject is prepared by the individual faculty member, approved by the HoD and the corresponding Academic Monitoring Committee member of that department. The lesson plan is also displayed during the faculty induction program, for the subject experts, held at the beginning of the semester, and their suggestions are incorporated. The lesson plan is then conveyed to the students via MOODLE. This allows the students to understand the course structure. The innovative methods employed by the faculty members help the students to get actively involved in the learning process .

þ	Announcements	
<u>}</u>	Attendance 2022-23	
	Syllabus	
×	PSA Lesson Plan	
	Text books & Reference Books	
	Text books:	
	1. I.J. Nagrath& D.P. Kothari, "Modern System Analysis", Tata McGraw- Hill	
	2. Stevenson W.D "Elements of Power System Analysis", McGraw- Hill Wadhawa C.L "Elements Power System", John Wiley & sons.	
	Reference Books:	
	1. "Power System Analysis", T.K. Nagsarkar, M.S. Sukhiya. (OXFERD U. P.)	
	2. Stevenson W.D. and Grainger J.J. "Power System Analysis" McGraw- Hill	
	3. A.R. Bergen and Vijay Vittal, Power Systems Analysis, Pearson Education Asia, 2001.	
	4. Stagg W.D. & El-AbiadA.H., "Computer Method in Power System Analysis", McGraw- Hill	
	5. H.Saadat "Power System analysis", McGraw- Hill	
	6. Elgred O.I. electrical Energy System Theory", McGraw-Hill.	
	7. J.D. Glover, M. Sarma and T.J. Overbye, Power System Analysis and Design, Fourth Edition, Thomson Engineering Press, 2008.	

Figure 5.5 (3.a) Lesson Plan uploaded on Moodle

and the second s	ARVIND GAV	ALIC	OLLE	E OF E	NGINE	ERING, SA	TARA	
Branch: E3	ectrical Engineering	Teac	hing/l	m)	lan	Academic Year Faculty Name:	: 2022-23 (Evo Miss. Mali. A.	n Sem) B.
Subject: SWITCH GEAR AND PROTECTION			Weeks I	Tours				AMC/HOD
Lecture	Planned Topics	Te	enching	Teaching Aids	Planned Date	Completion Date	Faculty Sign	Sign
No.	UNIT-I INTRODU	ICTION	TO SV	VITCHGE	AR AN	D PROTEC	TION	
1	INTRODUCTION, NEED POWER SYSTEM PROTECTION EFFECTS FAULTS,	FOR S OF	L	OHP	27 2 2	3 27-2-23	Honal	6000
2	REQUIREMENT OF RE RELAYS TERMINOLOGY	LAYS,	L	OIAB	23.2.2	28-2-23	Hovali	1 6. 9
3	BASIC CIRCUIT, RELA CONNECTION WITH TI CIRCUIT AND CIRCUIT BREAKER, TYPES OF RELAY	Y RIP T	L	MP	23-2-2	13 28-2-2	3 Honal	6.95
4	PROTECTIVE DEVICE PHILOSOPHY OF PROTECTION	S:	L	OHP	28-2-2	25-2-2-	3 Abra	6-95
5	ZONES OF PROTECT PRIMARY AND BACKI PROTECTION	ION, JP	L	MP	6-3-2	63-2	3 Horal	6.95
6	METHODS OF EARTH AND THEIR EFFECT (FAULT CONDITIONS	IING DN	L	OH	p 14:2	23 14-3-2	23 Hora	6.00
7	DIFFERENT TYPES C RELAYS: ATTRACTED ARMATURE TYPE, BALANCED BE	DF D EAM	L	61-1	p 143.	23 14.3	23 done	1. 6.5

Figure 5.5(3.b) Teaching Plan Page 1

				CAL DE	AVR					
	UNIT-II : STA	TIC AND	NUMERI	CAL RE	LATS		_			
8	AMPLITUDE AND PHASE COMPARATOR TECHNIQUES, DIFFERENTIAL RELAYS,	L	GHIR	20-3-23	20-3-23	Abrah	6-9			
9	DIRECTIONAL RELAY, IMPEDANCE RELAY, ADMITTANCE RELAY	L	GIAP	71-3-23	21-3-23	Home	600			
10	MHO RELAY, DESCRIPTION OF NUMERICAL RELAYS, RELAYING ALGORITHMS	L	MP	23-3-23	28-3-23	Albralt	6.9			
11	USE OF NUMERICAL RELAYS AS FAULT LOCATOR AND DISTURBANCE RECORDER	L	СНВ	10-4-23	10-4-23	Abrah	6-09			
12	MICROPROCESSOR BASED RELAYS, ADVANTAGES,	L	OHP	10-4-23	10-4-23	Abrahi	6.9			
13	OVER CURRENT RELAYS	L	0 1-1 P	11-4-23	11-4-23	denal	6-9			
14	DIRECTIONAL RELAYS, DISTANCE RELAYS	L	OHP	11-4-23	11-4-23	Abrat	bry			
	UNIT-III : CIRCUIT BREAKERS AND FUSES									
12	INTRODUCTION, ARCING	L	OHP	17-4-2	\$ 17-4-23	Jonat	6.9			
1	ARC INTERRUPTION, RE- 5 STRIKING AND RECOVERY VOLTAGE,	L	OHP	13-4-2	5 18-4-25	albrat	6-9			

Figure 5.5 (3.c) Teaching Plan Page 2

	CURRENT CHOPPING,	L	GIAR	13-4-23	13-4-25	Horali	Freek
17	RESISTANCE SWITCH, AIR BLAST CIRCUIT BREAKERS	L	017P	25-4-23	25-4-23	Abrat	brig
18	MINIMUM AND BULK OIL CIRCUIT BREAKERS, SF6 AND VACUUM CIRCUIT BREAKERS	L	OHP	2.523	2-5-23	Horal	6.07
19	CIRCUIT BREAKERS RATING, TESTING OF CB	L	GHP	2-5-23	2-5-23	House	book
20	POINT ON WAVE SWITCHING, DEFINITIONS OF TERMS IN FUSES HRC FUSES.	L	MP	3-5-23	3-5-23	Honol	6.9
21	INTRODUCTION, FUSE CHARACTERISTICS, TYPES OF FUSES, APPLICATION OF HRC FUSES. SELECTION OF CIRCUIT BREAKERS, HIGH VOLTAGE D.C. BREAKERS	L	GHP	35-23	3-5-23	Hond	Per a
	UNIT-IV : PRO	TECTION	OF TRA	NSMISSI	ON LINES		
22	OVER CURRENT PROTECTION, CONSTRUCTION AND OPERATION OF INSTANTANEOUS OVER	L	MP	4-8-23	4-5-23	Abrah	6.0

Figure 5.5(3.d) Teaching Plan Page 3

	CURRENT RELAY	L					
23	DIRECTIONAL OVER CURRENT RELAY, DISTANCE PROTECTION, UNIT PROTECTION SCHEMES	L	Oral	5-5-23	8-5-23	Abral	6-22
24	CARRIER AIDED DISTANCE PROTECTION, PROTECTION OF FEEDERS,	L	OHP	15-5-23	15-5-23	Abnat	6-8
25	PROTECTION OF RING MAIN AND PARALLEL FEEDERS, PROTECTION OF RADIAL FEEDERS BY OVER CURRENT RELAYS	L	онр	16-5-23	16-5-23	Abret	6-9
26	DISTANCE RELAYS AND CARRIER CURRENT PROTECTION SCHEME.	L	0178	20-5-23	20-5-23	Abreli	63
27	PROTECTION OF INDUCTION MOTOR'S AGAINST OVERLOAD, SHORT-CIRCUITS	L	онр	26-5-23	20-5-23	Abreli	6
28	THERMAL RELEASE, MINIATURE CIRCUIT BREAKER	L	OHP	22-5-23	22-5-23	Abrali	6.00
	UNIT-V PROTECTION	OF AL	TERNATO	RS & TR	ANSFORM	IERS	
29	DIFFERENTIAL PROTECTION OF ALTERNATOR, PROTECTION OF STATOR AGAINST PHASES TO	L	wp	23:5-23	23-5-23	denal	50

Figure 5.5 (3.e) Teaching Plan Page 4

	GROUND FAULT	٤					
30	PHASE TO PHASE FAULTS, INTER TURN FAULT, PROTECTION AGAINST UNBALANCED LOADING	L	OHP	23-5-23	23-5-23	Horat	6-2
31	PROTECTION OF ROTOR AGAINST GROUND FAULT, FIELD FAILURE, REVERSE POWER, BACK UP PROTECTION	L	OHP	23-5-23	23-5-23	Abral	6-02
32	FIELD SUPPRESSION, PROTECTION OF BUS BARS, FRAME LEAKAGE PROTECTION	L	OHP	29-5-23	29.5-23	dbrel	brok
33	DIFFERENTIAL PROTECTION OF TRANSFORMER FOR DIFFERENT WINDING CONFIGURATIONS,	L	OHP	30:5-23	865-23	Abrel	6.00

Figure 5.5 (3.f) Teaching Plan Page 5

34	DIFFICULTIES ENCOUNTERED IN DIFFERENTIAL PROTECTION AND THEIR REMEDIES. STANDARDS AND SPECIFICATIONS RELATED TO SWITCH GEAR AND PROTECTION	L	онр.	30 5 23	30-5-23	Hend	6-05
Abre	y	AMCM	lember	н	HOL		incering
EACHIN	G METHODS: 1. Lecture (L) 2. Coop	erative Learn	mg (C) 5, G	Toup Discus	ATARA Dee	man i man and	() for any set
EACHIN	G METHODS: 1. Lecture (L) 2. Coop 6. Lab Visit (LV) 7. In G AIDS : 1. Video Films (VF) 2.	erative Learn idustrial Visit Multimedia P	(IV) 8. Den	(MP) 3. Mos	dels (M) 4 Ov	malewadi	(Varye) ctors (OHP)
	G METHODS: 1. Lecture (L) 2. Coop 6. Lab Visit (LV) 7. In G AIDS : 1. Video Films (VF) 2.	erative Learn Idustrial Visit Multimedia P	(IV) 8. Den resentation	(MP) 3 Mod	dels (M) 4. Ov	malewadt	(Varye) ctors (OHP)

Figure 5.5 (3.g) Teaching Plan Page 6

In-house Training:

In-house training (hands-on) is organized by the department for skill development and technical proficiency. The duration of the training period is three weeks and the activity is called "YUGAM." The in-house training is conducted during the month of November which is also the vacation period for the odd semester.

The department offers this training in the areas of AutoCAD and Sketch Up Internet of Things (IoT), Artificial Intelligence (AI), and PCB Design. Experts from the industry are invited to conduct the course and also give hands-on training to the students.



Figure 5.5 (4.a) Pamphlet of workshop on Industry Oriented Skills for Aspiring Engineers 2023



Figure 5.5 (4.b)hands on practice



Figure 5.5 (4.c)AutoCAD practice

1	1156	22111		EETC	Regular
2	1150	2265451372001	ADSUL JAYDEEP SHIVAJI	ERTC	Regular
3	1157	2265451372002	BIDE PRATIK BHAUSAHEB	EATC	Regular
-	1158	2265451372003	CHAVAN VIPUL SANJAY	CATC	Regular
	1159	2265451372004	CHORAGE SUYOG ANKUSH	EATC	Regular
2	1160	2265451372005	DERE SHRADDHA JITENDRA	CATC	Regular
7	1162	2265451372007	DHANE SIDDHI HRISHIKESH	ERTC	Regular
8	1163	2265451372008	DURGAVALE ARYA ANIL	ERIC	Regular
10	1165	2265451372010	INGAWALE PRANAY PRAMOD	EATC	Regular
11	1166	2265451372011	JADHAV AJINKYA BALASAHEB	CATC	Regular
12	1167	2265451372012	JADHAV SANKET SHAMRAO	ERIC	Regular
13	1168	2265451372013	KADAM ATHARV RAMDAS	EATC	Regular
14	1169	2265451372014	KADAM PRIYANSHU VIJAY	ERIC	Regular
15	1170	2265451372015	KANASE YASH RAJENDRA	ERTC	Regular
16	1171	2265451372016	PAWAR DIPTI DATTATRAY	ERIC	Regular
17	1172	2265451372017	PAWAR PRASAD KRUSHNA	ERIC	Regular
18	1173	2265451372018	PAWAR YASH SHIVAJI	E&IC	Regular
19	1174	2265451372019	SALOKHE SAGAR UMAJI	E&IC	Regular
20	1175	2265451372020	SAWANT SHUBHAM SANTOSH	E&TC	Regular
21	1177	2265451372022	SHINDE SANDESH DIPAK	E&TC	Regular
22	1178	2265451372023	TARADE ADITI VIKRAM	E&TC	Regular
23	1179	2265451372024	TARADE SUDESH DATTATRAY	E&TC	Regular
24	1180	2265451372025	THORAT SHRADDHA RAMCHANDRA	E&TC	Regular
25	1181	2265451372026	WADKAR SIDDHI BALIRAM	E&TC	Regular
26	1182	2265451372027	WAGHMALE ATISH SANTOSH	E&TC	Regular
27	1183	2265451372028	YADAV SANIKA ARUN	E&TC	Regular
28	1184	2265451372029	PISAL ATHARV GANESH	E&TC	Regular
29	1185	2265451372030	DESHMUKH SANIKA KESHAV	E&TC	Regular
30	1186	2265451372031	DAWARI ARYAMAN MAHESH	E&TC	Regular
31	1187	2265451372032	CHAVAN CHAITANYA SOMNATH	E&TC	Regular
32	1188	2265451372033	CHAVAN DIPRAJ VISHNU	E&TC	Regular
33	1189	2265451372034	PADAWAL MANTHAN BAJARANG	E&TC	Regular
34	1192	2265451293003	CHAVAN SANIKA SANTOSH	Electrical	Regular
35	1204	2265451293015	MHASKAR SANGRAM RAJENDRA	Electrical	Regula
36	1206	2265451293017	PATIL POOJA RAVINDRA	Electrical	Regula
37	1207	2265451293018	PATIL SAYALI ANKUSH	Electrical	Desula
38	1208	2265451293019	PATIL SWAYAM UMESH	Electrical	Regula
39	1217	2265451293028	TAWARE ANUJA RAMCHANDRA	Electrical	Regula
40.	1218	2265451293099	Stinde Shreya Amar	Electrical	Regula
And	tuy)		All	eleeman	Kegul

Dr. Babasaheb Ambedkar Technological University, Lonere ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA

Figure 5.5 (4.d) Attendance

NBA e-SAR 2022-23

CS Scanned with ClauSeanner



Figure 5.5 (4.e) Pamphlet of YUGAM 2020

Open Book Tests:

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



Figure 5.5 (5.a) Open Book Test forElectrical Machines Design TY Open book tests



Figure 5.5 (5.b) Open Book Test forElectrical Machines SY Open book test Use of Interactive Panels (ICT):

The faculty members of the department are encouraged to conduct lectures using smart boards and LCD projectors. This enables a more vivid representation of the concept by incorporation of videos to simplify the concepts. The use of ICT is encouraged in the department and minimum one lecture needs to be conducted using ICT panel.



Figure 5.5 (6.a) Faculty Member of the Department Using Interactive Panel while Conducting the Lecture



Figure 5.5 (6.b) Faculty Member of the Department Using Interactive Panel while Conducting the Lecture

Industrial Visits

Industrial visits are carried out to make students aware of the current advances and requirements in the industry.



Figure 5.5 (7.a)Industrial Visit at AG Electro



Figure 5.5 (7.b)Industrial Visit at Padage Substation Mumbai



Figure 5.5 (7.c)Industrial Visit at Sunmitra Solar Pvt. Ltd.

Quiz

Faculty members conduct quiz, based on objective questions to assess the understanding of the concepts, by the students. The quiz is conducted using MOODLE platform. Objective Multiple-Choice Questions (MCQs) are formulated using Bloom's taxonomy.

CA-1 Exam	
CA- 1 Objective Exam	\checkmark
All questions are compuldary	
Each question carry 1 mark	
time 10 min	
PSA_ MiD Sem objective based Examination(7/11/2022)	\bigtriangledown
1. Test based on objective questions.	
2. There are 4 objective questions .	
3. Each question carries ONE mark.	
4. No negative marking for wrong answer.	
PSA_CA-2 Objective based Examination(12/12/2022)	V
1. Test based on objective questions.	
2. There are 2 objective questions .	
3. Each question carries ONE mark.	
4 No negative marking for wrong answer	

Figure 5.5 (8.a) Quiz on Moodle Screen shot

 $\overline{\mathbf{V}}$

CA-1 Examination

EMD_CA-1 Objective Examination(23/03/2023)

Exam is MCQ based on Unit- 1 & 2.
 Time 10 Min
 All Questions Carry equal marks.

EMD_ MiD sem Examination

EMD_ MiD Sem examination (25/4/2023)

1. Test based on objective questions.

2. There are 4 objective questions .

3. Each question carries ONE mark.

4. No negative marking for wrong answer.

EMD_ CA-2 Examination

Figure 5.5 (8.b) Quiz on Moodle Screen shot

NPTEL Courses:

The students are encouraged to enroll for National Programme on Technology Enhanced Learning (NPTEL) and Massive Open Online Course (MOOC) courses to enhance self-learning. These courses are further incorporated in the syllabus itself by the university.

The efforts of the SPOC, Ms.Samina Y. Mulla for NPTEL courses have been appreciated by IIT Bombay.

Table 1. NPTEL Courses Chosen by Students of TY B.Tech and Final Year B.Tech (Electrical) for 2022 – 23

Sr.	Timeline	Year		Courses Chosen by the Students
No.				
1	2022 - 2023	TY	B.Tech	1. Electric Vehicles - Part 1
	Odd	(Electrical)		2. Smart Grid: Basics to Advanced Technologies
	Semester			3. Electrical Machines – II
				4. Smart Grid: Basics to Advanced
				Technologies
				5. Signals and Systems
				6. Digital Protection of Power System
2	2022 - 2023	Final Year	B.Tech	1. Entrepreneurship Essentials
		(Electrical)		2. High Power Multilevel Converters-
	Odd			Analysis, design and operational issues
	Semester			

Table 2. NPTEL Courses Chosen by Students of TY B.Tech and Final Year B.Tech (Electrical) for 2021 – 22

Sr.	Timeline	Year	Courses Chosen by the Students
110.			
1	2021 - 2022	TY B.Tech	1. An Introduction to Artificial Intelligence
	Odd Semester		2. Introduction to Programming in C

Table 3. NPTEL Courses Chosen by Students of TY B.Tech and Final Year B.Tech (Electrical) for 2020 - 21

Sr.	Timeline	Year	Courses Chosen by the Students
No.			
1	2020 - 2021	TY B.Tech	1. Fuzzy Sets, Logic and Systems & Applications
	Odd		2. Industrial Automation and Control
	Semester		
2	2020 – 2021 Odd	Final Year B.Tech	1. Introduction to Industry 4.0 and Industrial Internet of Things
	Semester		

3	2020 - 2021	TY B.	Tech	1. Basic Electrical Circuits
		(Electrical)		2. Electric vehicles and Renewable energy
	Even	× ,		
	Semester			
4	2020 - 2021	Final Year	B. Tech	1. Introduction to Industry 4.0 and Industrial
		(Electrical)		Internet of Things
	Even	× ,		
	Semester			



This certificate is awarded to

VAISHNAVI RAJENDRA BHISE

for successfully completing the course

Smart Grid: Basics to Advanced Technologies

with a consolidated score of 42 % Online Assignments | 10.63/25 | Proctored Exam 31.5/75 Total number of candidates certified in this course: 613 Priti Maheshwani Prof. Sanjeev Manhas Prof. Priti Maheshwari Jan-Apr 2023 NPTEL Coordinator Coordinator, Continuing Education Centre IIT Roorkee IIT Roorkee (12 week course) Indian Institute of Technology Roorkee Roll No: NPTEL23EE60S64600297 To validate the certificate No. of credits recommended: 3 or 4

5.5 (9.a) NPTEL Certificate



This certificate is awarded to

SNEHALUNUNE

for successfully completing the course

Electric Vehicles - Part 1



5.5 (9.b) NPTEL Certificate

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

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

Ξ	AGCE	4 9	Sawkar Institutes Satara 👼 🔹
U	nit 1: Introduction		
	lntroduction to control problem		¥
	Introduction to control problem by M. Gopal(IIT Delhi)		
	Translational Mechanical System in Control Engineering		Ø
	🧏 Unit-1 PPT		$\overline{\mathbf{v}}$
	Unit-1 Notes		V
U	nit 2: Time Domain Analysis		
	👔 Time Response Analysis of systems by IIT Madras Prof. R. Pasumarty		$\overline{\mathbf{v}}$
	🧏 Unit-2 PPT		\square
	Unit-2 Notes		5

Figure 5.5 (10) Screen shot of MOODLE containing course material

• List of Experiments:

The list of experiments for the concerned subject as prescribed in the university syllabus is uploaded on the MOODLE platform by the concerned faculty member and made available to the enrolled students. The same list is also posted on the student WhatsApp groups.



Figure 5.5 (11.a) Screen shot of MOODLE List of Experiments

÷	📮 Announcements 🖋	Edit 🝷 🛔	
÷	🍇 Attendance 2021-22 Even Sem 🖋	Edit 🝷 🛔	
÷	🚞 EM-II List of Experiments 🖋	Edit 💌	V
	 (BTEEL408)ELECTRICAL MACHINE-II LABORATORY Perform Any Eight experiment from given list as a part of practical submission List of Experiment 1. Determination of sequence impedance of salient pole synchronous machine To perform 2. Determination of Xd and Xq of a salient pole synchronous machine from slip test. 3. V and inverted V curves of a3-phase synchronous motor 1 4. Regulation of alternator by Direct loading method (R,L,C load) 5. Regulation of alternator by synchronous impedance method 6. Regulation of alternator by MMF method 7. Parallel operation of Synchronous generator 8. To study different types of starters for three phase Squirrel cage induction motor 9. Rotor resistance starter for slip ring induction motor. 10. To conduct no load and blocked rotor test and to determine performance characteristics of three motor from circle diagram 	phase inducti	on

- 11. Load and block rotor tests on squirrel cage induction motor
- 12. Brake test on slip ring induction motor
- 13. To control speed of wound rotor induction motor by rotor resistance control method
- 14. To control speed of induction motor by V/F
- 15. To control speed of induction motor by i) star-delta ii) autotransformer

Figure 5.5 (11.b) Screen shot of MOODLE List of Experiments

Attendance:

Attendance is maintained on MOODLE and in the hard copy form by the respective faculty members of the department. After the lecture the faculty is supposed to upload attendance before the next lecture.

■ AGCE						🌲 🍺 🛛 Sawkar Institutes	s Sa	tara	V
	46	Wed 25 May 2022	10AM - 11AM	All students	Regular class session	*	0	Û	
™ EM	47	Wed 25 May 2022	1:40PM - 2:40PM	All students	Regular class session		0	Û	
Participants	48	Thu 26 May 2022	11AM - 12PM	All students	Regular class session		•	ŵ	0
Badges	49	Fri 27 May 2022	10AM - 11AM	All students	Regular class session	*	0	ŵ	
Competencies	50	Wed 1 Jun 2022	10AM - 11AM	All students	Regular class session		¢	Û	
I Grades	51	Wed 1 Jun 2022	1:40PM - 2:40PM	All students	Regular class session		0	Û	
C General	52	Fri 3 Jun 2022	10AM - 11AM	All students	Regular class session		0	Û	
🗅 Unit-1 PPT	53	Fri 3 Jun 2022	3PM - 4PM	All students	Regular class session		0	Ŵ	D
🗅 Unit-2	54	Thu 9 Jun 2022	11AM - 12PM	All students	Regular class session	0	¢	Ŵ	
CA-1 Objective Examination	55	Fri 10 Jun 2022	10AM - 11AM	All students	Regular class session	*	0	Ŵ	0
D Unit-3: Synchronous	56	Fri 10 Jun 2022	3PM - 4PM	All students	Regular class session	¢	¢	Ŵ	
Machine Characteristics	57	Mon 13 Jun 2022	4PM - 5PM	All students	Regular class session		0	Û	
Unit-4: Three Phase Induction Motor	58	Wed 15 Jun 2022	10AM - 11AM	All students	Regular class session		0	ŵ	
C MiD Sem Examination	59	Thu 16 Jun 2022	11AM - 12PM	All students	Regular class session	¢	0	۵	0
D Unit-5 Single Phase	60	Fri 17 Jun 2022	10AM - 11AM	All students	Regular class session	¢	0	Û	D
	61	Tue 21 Jun 2022	10AM - 11AM	All students	Regular class session	0	•	۵	C
C Unit-6 Special Purpose AC Motor	62	Fri 24 Jun 2022	10AM - 11AM	All students	Regular class session		0	ŵ	0

Figure 5.5 (12.a) Electrical Machines-II SY Electrical Sem-IV Moodle Attendance Screen shot

The department has a unique Guardian Faculty Mentor Scheme (GFM), under which fifteen students are assigned to a faculty member of the department. The GFM is responsible for counseling the students who have poor attendance, collecting their feedback regarding the difficult subjects.



Figure 5.5 (12.b) Faculty member conducting GFM Meeting with students

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. The uploaded assignments are assessed by the faculty members and marks are given to them. These assignment marks are considered for internal termwork calculations.

Screen shot of Assignments uploaded on Moodle and one assessed Assignment sheet PDF

0	1965451293024 KENJALE NIKITA SURESH	nikitakenjale0908@gmail.com	1965451293024Nikita Suresh Kenjale Assignment Tuesday, 28 June 2022, 9:29 PM
0	1965451293035 KATKAR PRATIK BABURAO	pratikkatkar0207@gmail.com	1965451293035 Pratik Baburao Katkar Control Sys Friday, 1 July 2022, 7:06 PM
0	1965451293041 MOHITE SALONI DATTATRAY	salonimohite3@gmail.com	No files available
0	1965451293047 JADHAV AKANKSHA SHASHIKANT	akankshasj28@gmail.com	s ass 5.pdf Tuesday, 28 June 2022, 7:08 PM
0	1965451293048 YADAV SANJAY GANESH	sanjayyadav 1362002@gmail.com	CS assignment 56 (1).pdf Friday, 1 July 2022, 2:19 PM
0	1965451293049 Mohite Manasi Sharad	mansimohite9112000@gmail.com	▶ 1965451293049_Manasi Mohite#CS Assig no 050€ Thursday, 30 June 2022, 8:14 AM
9	1965451293052 JADHAV AKANKSHA PRADIP	akankshajadhav 483@gmail.com	1965451293052 Akanskha Pradip Jadhav #CS Assi Thursday, 30 June 2022, 8:57 PM

Figure 5.5 (13) Control System TY Electrical Sem-VI Moodle Attendance Screen shot

Continuous Assessment Report:

The continuous assessment report is generated based on the student attendance and the assessment grades defined by the faculty members.

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		Co	ontinuo	us i	Assess	men	t Shee	(CAS)	D		
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No.	1290-275 C	sp Name			Date of Conduction	n.		Laboratory	Assessment		
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8.	Lead test of	n Dr. Shun	t moto	5-	04/122/2	12	2	40	40	10	1.0
9.	Magnetision	Charatesti	sign	MCRA	15/10/	22	2	4	3	9	10
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Figure 5.5 (14.a) Continuous Assessment sheet
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Figure 5.5 (14.b) Continuous Assessment sheet

• Virtual Labs:

Virtual Labs are a complete Learning Management System configured in accordance with COEP, Pune. Virtual Labs do not require any additional infrastructural setup for conducting experiments at user premises. The simulations-based experiments can be accessed remotely via the internet.



Figure 5.5 (15.a) Virtual Lab



Figure 5.5 (15.b) Virtual Lab



Figure 5.5 (15.c) Virtual Lab simulation result

Project-based and Self-learning:

Project-based and Self-learning: Students are encouraged to group in various domains such as Power System, Automation, Internet of Things, Power Electronics & Drives, Renewable Energy sources and Power Electronics, etc. and work in the development of projects in that domain. Emphasis is given on industry-based projects, innovative ideas, and research-paper based projects

Samarth Educational Trust Arvind Gavali College of Engineeering Project Groups Electrical Engineering Academic Year 2022-2023

Sr. No.	Group No.	Date of Examination	Domain	Name	Title of the Project
$ \begin{array}{c} 1\\ 2\\ 3\\ 4 \end{array} $	1		Electrical Vehicle	GhateHarshali Vijay GalaveGorakshShivaji JadhavPratikshaShashikant Jadhav Pooja Jaysing	Voice Control Robotic Vehicle
5 6 7 8	2		Robot	Indulkar Kailas Vijay Memane Tushar Dattatray Tirmare Prasad Rajesh Jadhav Amrut Suhas	SELF BALANCING ROBOT
9 10 11 12	3		Electrical Vehicle	Kawar Prashant Sakharam Katkar Pratik Baburao Shelar Shailesh Dattatray Kambale Asmita Sunil	Battery Swapping System for Electrical Vehicle
13 14 15 16	4	18-01-2023	Power Electronics	Lokare Saujanya Suresh Jadhav Akankshaf Shashikant Yadav Sanjay Ganesh Mohite Manasi Shard	Arduino Based Five level Multi level Inverter with Resistive load
17 18 19 20	5		IoT	Kenjale Nikita Suresh Mohite Saloni Dattatraya Jadhav Akanksha Pradip Sabale Shubham Ravindra	IoT BASED SOLAR POWER PLANT AUTOMATION
21 22 23 24	6		Solar	Tarade Shweta Tukaram Jadhav Ankita Sanjay Patil Harshal Prashant Herkal Aditya Rajendra	Solar Operated Mobile Pestiside and Fertilizer Sprayer

25 26 27 28	7	Irrigation	Sonawane Rajeshwari Rajan Mahadik Vaishnavi Rajendra Suravashi Praveen Ramchandra Patil Ashok Sadashiv	Aumatic Drip Irrigation System using Microcontroller
29 30 31 32 33	8	Electrical Drives	Kadam Rajesh Dilip Gore SonaliKundalik KambaleVidyashriLaxman JadhavOmkarRavindra Shinde Abhijit Bharat	Triac based wireless Single phase Induction Motor speed Controller using microcontroller

Final Year Project List for the Academic Year 2022 – 2023

Samarth Educational Trust Arvind Gavali College of Engineering Final Year Project Batches Electrical Engineering Academic Year 2021-2022

Sr. No.	Group No.	Domain	Name	Title of the Project	Guide Name	
		·				
1			Rao Archana			
2	1	Power	BhoiteNilam	Enhancement to DP	Dr. Mirajkar G. S.	
3		System	Thorat Shraddha	Monitoring System		
4			Monde Komal			
5			MohiteRaviraj D.			
6	2	ІоТ	MahamulkarPrajakta K.	Child Safety Wearable	Prof. Gujar	
7			Yadav Snehal A.	Device	V. B.	
8			ChavanPranita H.			
9			ShindeRohitkumar	Designing and Analysis	Dr. Nayak B.	
10	2	Power	ChavanUtkarsh	of AC Power Control		
11	5	System	JadhavShriram	by Programmable	М.	
12			KenjaleShubham	Interface		
13	_		ShingateShital	Design and Installation		
14			PawarMayuri	of High Capacity	Prof. Chavan	
15	4	IoT	JadhavAsavari	– Pump for Optimization		
16			DevkarKomal	of Power Using VFD Controller	5. 0.	
		1				
17	-	Power	KambleSagar	_		
18	- 5	Electronics &	Pawar Saurabh	Iot based Solar	Dr. Nayak B.	
19	-	Drives	ShedgeShubham	Monitoring and Control	M.	
20			SonawaneShubham			
01						
21	-		BnosaleDnanashri	Wireless robotic vehicle	Prof.	
22	6	Automation	Nilsom Droil-t-	to supply food and medicines to covid-10	Somesha	
23	-		INIKAMPTAJKIA	patients.	NSR	
24			CnavanAkanKsna	r		

25			<i>Vahinaa aan</i> Daviliinan	AI - Based Touchless		
25			KsnirsagarRavikiran	Attendance System for		
26	_	I T	ShivankarSaloni	School, Colleges after	Dr. Mirajkar	
27		101	Gaikwad Pooja	COVID-19 Situation	G. S.	
				Oxygen Level. Face		
28			Ingale Sujata	Mask Detection		
29			Chavan Amar			
30	Q	IoT	ShelarAaditya	To Design and Develop Prototype for Industrial	Prof.	
31	0	101	Kadam Anup	Cobot	S.	
32			Chalke Saurabh	00000	5.	
33			Agawane Aparna		D	
34	0	Power	Kadam Divya	Ultra Fast Circuit Breaker Using Arduino	Prof. Somesha NSR	
35	7	Electronics	PingaleSomeshwar	for Overlaod Protection		
36			NalawadeRutuja			
37		5 11	Mane Prashant	Design and		
38	10	10 Energy Sources	Shinde Nikhil	Implementtion of Manul rotation of Solar	Prof. Bichkar	
39	10		Thorat Aba	Plate for Maximum	J. S.	
40			Patil Pratik	Energy Output		
41			Nikam Pratik			
42	11	IoT	JedheDeshmukhPiyush	Solar Tracking System	Prof.	
43	11	101	KhatteAvishkar	Using Arduino	S.	
44			Godse Ganesh			
45			JamdadeShubham			
46	12	Power	GhadgeMayuresh	F - Lite Bicycle	Dr. Nayak B.	
47	12	Systems	PatilShubham	L'Ence Dicycle	М.	
48			TawateNishant			
		Γ		Γ	Γ	
49		Power	Kale Shital	Automatic Car Parking	Prof Jagtan	
50	13	Systems	JadhavKajal	Using Arduino System	D. B.	
51		5	Gosavi Anita			
		r	1	I	[
52			ShindeRohit	IOT Based Smart	Prof. Guiar	
53	14	ΙσΤ	PatilShahaji	Public Ration	V.B.	
54			PataneRuturaj	Distribution System		

55 56 57 58	15	Automation	Kalange Poonam PatilKomal Patil Pooja RautAmruta	Robot for Waste and Garbage Collection in Water	Prof. Chavan S. G.
59 60 61	16	Renewable Energy Sources	Mahadik Rajesh JamdadeShubham Kumbhar Kiran	Design and Implementtion of Manul rotation of Solar Plate for Maximum Energy Output	Prof. Bichkar J. S.
62 63	17	Renewable Energy Sources	Jagtap Arvind Dipak DhaigudeSanee	Analysis and Implemenatation of Solar Tracking System	Prof. Bichkar J. S.

Final Year Project List for the Academic Year 2021 – 2022

Samarth Educational Trust Arvind Gavali College of Engineering, Satara

B.Tech Final Year 2020-2021

Department of Electrical Engineering

Sr. No.	Name of the Project Group Members	Title of the Project	Domain	Name of the Guide	
	Aishwarya Sanjay Salunkhe				
	SoundaryaVijayakumarPowar	Underground Cable Fault			
1	Nikita MadhavPimpalkar	Detection	IoT	Dr. Mirajkar G S	
	KumbharMegha Sunil	Using IOT			
	Mahesh Ananda Jadhav	IoT-Based			
	KumbharkarVaibhav Vilas	Management			
2	PowarShivrajSarjerao	System of Electrical	ІоТ	Dr. Bhosale V. K.	
	Sandesh BabasahebWadkar	Vehicle			
		Station			
	Dede PradipAnkush	Devenue	Power Electronics & Drives		
	TikudaveAkshayDhondiram	rotation		Prof. Nayak B. M.	
3	LokhandeAkshayHanmant	controller for			
	Garud Ashish Adhikro	equipment			
	Sakate Rahul Siddharth	IoT-Based			
4		induction motor	ІоТ	Dr. Bhosale V. K.	
	JadhavShitalSambhaji	monitoring			
	Jadhav Ashwini Satappa	system			
			11		

	PatilAtul Ashok	_			
5	PatilSuraj Ashok	Automatic Dower factor	Power	Drof Evo Cupto	
5	Sutar Pratik Prabhakar	controller	Systems	Prol. Eva Gupta	
	Akash Jagannath Date	-			
	PawarSanchitaNanaso	Iot Based			
	Pooja Sanjay Chavan	Smart Energy			
6	Bagal Poonam Anadarao	Meter Monitoring	IoT	Dr. Mirajkar G S	
	LawandAmrutaShivaji	and Billing System			
	PiseMadhuriMadhukar				
	JangamPritee Sanjay	IoT-Based Military Surveillance			
7	SasaneRushikesh Ashok		IoT	Dr. Mirajkar G S	
	Borate Aniket Sanjay	Robot			
	ChavanGouri Ashok				
	PatilSwaranialiVitthalrao	IoT-Based	ІоТ	Prof. Hingmire V. S.	
8	Mali Rutuja Shankar	Work Data			
	WandareI aymiBaban	Big Vehicles			
	WandareLaxiniDaban	-			
		· · · ·			
	AkhileshSubhashjambhale				
	Pawar Pratik Balasahe	4KW Solar	D		
9	Jagtap Akash Ramesh	Designing and	Systems	Prof. Eva Gupta	
	KudaleYuvraj Vijay	Mounting	-		

			<u>г</u>		
	KarandePiyush Naresh				
	KakadeRushiraj Rajiv	ON-Grid 4KW			
10	Masal Shankar Maruti	Solar Lighting	Power Systems	Prof. Eva Gupta	
10	Pawar Sushant Vinayak	Power Plant Installation			
	Gujar Tejas Sharad	instantation			
		Induction			
	Asmita Arvind Patil	Motor			
11	ShindeRohiniHanamant	Rotation in	Power		
11	BahulekarPallaviBalkrushna	through a	Electronics & Drives	Prof. Basavaraj B. Nelogal	
	Kulkarni OmkarRajendra	Remote			
		Control Device			
	Bhosale Rahul Anil	Power Distribution			
10	Gaikwad Aniket Raju	Station	ЬТ	Drof Jacton D. D.	
12	DhaleHardika Hemant	Monitoring	101	FIOI. Jagtap D. D.	
	ShindePratimaDattatraya	IoT			
	GiddeDradnyaPopat				
	SonknalNamrata Nataii	IoT-Based		Prof. Barkade V. T.	
10		Distribution			
13	Deshmukh Privanka	Monitoring	101		
	Bhanudas	System in Apartments			
		1			
	Bhagwat DevvratUmakant				
	Kadam Tejashri Sanjay				
14	Pol Snehal Kailas	Li-fi Data	Power Flectronics &	Prof B M Navak	
11	Ghadge Vijay Sanjay	System	Drives	1101. D Wi Wayak	
	Babar Nagraj Vivekananda				

15	SutarKomalRamchandra NalwadeAkshada Anil JadhavKomal Vilas Pawar Kiran Vijay	Track Charging System for Electric Vehicle	Electrical Power Systems	Prof. Bichkar J. S.
16	Chaitanya Sunil Thigale SolaskarShital Prakash PhadtareVikasBalaso DhotreDilipDnyandev	4KW Solar Control Panel Designing and Mounting	Power Systems	Prof. Mahamuni P. N.
17	PranjaliPatil KalyaniWagdole DhanashreeRajgolkar Swati Kshirsagar	Industrial Automation Using WiFi (Earlier Industrial Automation Using IoT)	Power Electronics & Drives	Prof. Nayak B. M.
18	PritamBaluDhaske Dipali Ramesh Mane NilamBalkrishnaSalunkhe Priti Sunil Barge	Priority-wise Power Distribution and Safety Controller Monitoring System Using IoT	Power Systems	Prof. Eva Gupta
19	AdhikraoKumbhar VikasSawant RohitJangam Yogesh Kadam	Energy Regenerative Braking of BLDC Motor by Using Super Capacitor in EV Application	Power Electronics & Drives	Prof. Basavraj B. Nelogal

Final Year Project List for the Academic Year 2020 – 2021

5.6 Faculty as Participants in Faculty Development/ Training Activities/ STTPs (15)

A faculty scores maximum five points for participation Participation in 2 to 5 days Faculty Development Program: 3 Points Participation > 5 days Faculty Development Program: 5 Points

	Max. 5 per Faculty				
Name of the Faculty	2022-23 (CAY)	2021-22 (CAYm1)	2020-21 (CAYm2)		
MEGHYA NAYAK BANOTH	03	3	10.00		
PARVATHI ISLAVATH	0	1	1.00		
SHITAL JADHAV	0	0	1.00		
BASAVARAJ NELOGAL	0	1	2.00		
SOMPURA SOMESHA NAIK	3	3	1.00		
EVA GUPTA	0	0	2.00		
HRUTUJA BHUTKAR	0	0	1.00		
JIVAJEE BICHKAR	0	0	1.00		
ASHALESHA MALI	1	2	3		
PURANIK VIVEK VINAYAK	0	0	1.00		
VISHAKHA GAIKWAD	0	0	1.00		
DEVENDRAPPA LAMANI	0	0	1.00		
PRATHMESH BHOSALE	0	0	1.00		
SARITA JADHAV	0	0	1.00		
CHENNABASAPPA BHERAJI	0	0	0.00		
Sum	07	10	15.00		
<i>RF</i> = Number of Faculty required to comply with 20:1 Student-Faculty ratio as per 5.1	4.95	4.95	6.60		

Assessment = 3 × (Sum/0.5RF) (Marks limited to 15)	8.49	12.12	13.64					
Average assessment over three years (Marks limited to 15) =11.41								



° س	CERTIFICATE NO PAN_EV_PART_0044	e Learning
Skill AP	CERTIFICATE	INCECT SOLUCIONS
	OF PARTICIPATION	
NAME	Dr.B. Meghya Nayak	_
COLLEGE	ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA	_
	has Successfully Completed 30 DAYS MASTERCLASS ON EV DESIGN USING MATLAB	
	at Pantech e Learning Pvt Ltd, Chennai	
	From to 09.03.2023	

5.7: Research and Development (30)

5.7.1: Academic Research (10)

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:

Following is the list of research papers published by the faculty members in the reputed journals and conferences.

	Academic Year 2022–2023					
Sr. No	Faculty Name	Title of the Paper	Name of the Journal/Conferen ce	Journal Details		
1	BanothMeghyaNay ak	Power quality improvement by using photovoltaic based shunt active harmonic filter with Z-source inverter converter	Electrical Engineering &Electromechanics, 2022, no. 6	https://doi.org/10.20998/2074- 272X.2022.6.06		
2	BanothMeghyaNay ak	Performance Investigation of Solar Photovoltaic System for Mobile Communicati on Tower Power Feeding Application	International Journal of Electrical and Electronics Research (IJEER)	Volume 10, Issue 4 Pages 921- 925 e-ISSN: 2347-470X		

3	BanothMeghyaNay	COMPUTATIO	NeuroQuantology	elSSN 1303-5150 Volume 20
	ak	N OF CLOUD	December 2022	Issue 20 Page 1485-1495 doi:
		IN SET		10.48047/NQ.2022.20.20.NQ109
		STATISTICS		151
		TRANSFERRIN		
		G		
		0		
4	BanothMeghyaNay	Enhancement	Eur. Chem. Bull.	12(Special Issue 4), 2176-2187
	ak	of Energy	2023	
		Management		
		System In EV		
		Fast Charging		
		Stations Fed		
		MicroGrid		
		Using DVR		
		0		
5	BanothMeghyaNay	Gas Level	ICIHCNN-2022	
	ak	Monitoring		
		and		
		Automatic		
		Gas Booking		
		Using IOT		
		Based		
		Technology		
		For		
		Commercial		
		Applications		
6	Dr P. M. Noval	Voice	Drocoodings of the	ISDN: 079 91 061021 1 0
0	Dr. D. WI. Mayak	Voice	International	ISBN: 978-81-901931-1-9
		Controlled	Conference on	
		Robotic	Innovations and	
		Vehicle	Recent Trends in	
			Engineering and	
			Science (ICIRTES-	
			2023)	
			2023)	
7	Ms. Mali	Self Balancing	Proceedings of the	ISBN: 978-81-961931-1-9
	AshleshaB.	Robot	International	
			Conference on	
			Innovations and	
			Recent Trends in	
			Engineering and	
			Science (ICIRTES-	
			2023)	

8	Mr. Somesha N S R	Arduino based Seven Stage Multi level Inverter	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES- 2023)	ISBN: 978-81-961931-1-9
9	Dr. B. M. Nayak	Aumatic Drip Irrigation System using Microcontroll er and Electrical devices	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES- 2023)	ISBN: 978-81-961931-1-9
10	Mr. Somesha N S R	Solar Operated Mobile Pesticide and Fertilizer Sprayer	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES- 2023)	ISBN: 978-81-961931-1-9
11	Mr. Somesha N S R	IoT Based Solar Power Plant Automation	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES- 2023)	ISBN: 978-81-961931-1-9
12	Dr. B. M. Nayak	Battery Swapping System for Electrical Vehicle	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES- 2023)	ISBN: 978-81-961931-1-9

13	Mr. Somesha N S	Speed Control	Proceedings of the	ISBN: 978-81-961931-1-9
	R	of Induction	International	
		motor	Conference on	
			Innovations and	
			Recent Trends in	
			Engineering and	
			Science (ICIRTES-	
			2023)	

	Academic Year 2021 – 2022					
Sr. No.	Faculty Name	Title of the Paper	Name of the Journal/Conference	Journal Details		
1	BanothMeghyaNayak	Design and Installation of High Capacity Centralized Coolant Pump for Optimization of Power Consumption using VFD Controller"	International Journal of Advanced Research in Science, Communication and Technology (IJARSCT	ISSN 2581-9429, Volume 2, Issue 2, July 2022, Page No: 354.DOI: 10.48175/IJARSCT- 5832		
2	BanothMeghyaNayak	Monitoring and Controlling of Solar Power Plant Based on IoT"	International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)	ISSN 2581-9429, Volume 2, Issue 2, July 2022, Page No: 456.DOI: 10.48175/IJARSCT- 5849		

	Academic Year 2020 – 2021						
Sr.	Faculty	Title of the	Name of the	Journal Details			
No.	Name	Paper	Journal/Conference				
1	Miss. Mali Ashlesha B.	Single phase PWM rectifier is method of converting AC to DC in charging system for electrical Vehicle	International conference on emerging trend in Engineering and Technology (ICETET- July 2021) But joined on Dec 2021	Vol. 8, no. 6, pp. 887 – 898, March 2020 ISSN: 2278 – 3878			

2	BanothMeg hyaNayak	Evolutionary Computing Assisted Control Environment for Six-Step Mode High-Speed and Accelerating Induction Motor Drives"	International Journal of Advanced Science and Technology (IJAST)	ISSN: 2005-4238, Vol. 29, No. 3, (2020), pp. 10442 – 10461
3	Eva Gupata	Stochastic and deterministic mathematical modeling and simulation to evaluate the next COVID-19 pandemic control measures	American Journal ofInfectious Disease	Nov. 202 0 DOI: https://doi.org/10.3844/ajids p.2020.135.170
4	Eva Gupata	Fabrication and characterization of novel nitinol particulate reinforced aluminium alloy metal matrix composites (NiTip/AA6061 MMCs)	Materials Today: Proceedings (Elsevier)	Oct 2020, http s://d oi.o rg/1 0.10 16/j .mat pr.2 020. 09.3 26
5	Eva Gupata	Finite element analysis of mechanical response of fracture fixation functionally graded bone plate at paediatric femur bone	Materials Today: Proceedings (Elsevier)	Oct 2020, https://doi.org/10.1016/j.mat pr.2020.08.740

		fracture site under compressive and torsional loadings		
6	Eva Gupata	An Insight into the Simplified RP Transmission Network, Concise Baseline	American Journal of Infectious Diseases	Jul 2020 DOI : 10.3844/ajidsp.2020.89.108
		and SIR Models for Simulating the Transmissibilit y of the Novel Coronavirus Disease 2019 (COVID-19) Outbreak		

5.7.2 B) PhD guided/Phd awarded during the assessment period while working in the institute (04)

Faculty Name	Phd guiding	During assessment year PhD award
Dr. B. M. Nayak	-	15 th April 2021



5.7.2 Sponsored Research

• Funded research:

(Provide a list with Project Title, Funding Agency, Amount and Duration)

Funding amount (Cumulative during CAYm1, CAYm2, and CAYm3)

Amount > 20 Lakh Amount >= 16 Lakh and <= 20 Lakh - 4 Marks Amount >=12 Lakh and < 16 Lakh - 3 Marks Amount >= 8 Lakh and < 12 Lakh - 2 Marks Amount >= 4 Lakh and < 8 Lakh - 1 Mark Amount < 4 Lakh

- 5 Marks

- 0 Marks

2022-23(CAY)

S. No.	Faculty Name	Funding Agency	Grant Amount (in Rs.)
1	Dr. B. M. Nayak	Vice-chancellors Research	3,00,000/-
		Promotion Scheme DBATU,	
		Lonere	

(05)

2022-23(CAY)

Project Title	Duration	Funding Agency	Amount
Voice Controlled Robotic Vehicle	1Year	Siddheshwar Electricals, Satara, Maharashtra, India	20000.00
Self Balancing Robot	1Year	Ravi Electricals, Satara, Maharashtra, India	17000.00
Arduino based Seven Stage Multi level Inverter	1Year	Sai industries, additional MIDC, Satara, Maharashtra, India	15000.00
Aumatic Drip Irrigation System using Microcontroller and Electrical devices	1Year	Ravi Electricals, Satara, Maharashtra, India	16000.00
Solar Operated Mobile Pesticide and Fertilizer Sprayer	1Year	Ravi Electricals, Satara, Maharashtra, India	15000.00
IoT Based Solar Power Plant Automation	1Year	Siddheshwar Electricals, Satara, Maharashtra, India	20000.00
Battery Swapping System for Electrical Vehicle	1Year	Siddheshwar Electricals, Satara, Maharashtra, India	12000.00
Speed Control of Induction motor	1Year	Ravi Electricals, Satara, Maharashtra, India	10000.00
			Total Amount(X):125000. 00

2021-22(CAYm1)

ProjectTitle	Duration	Funding Agency	Amount
Enhancement to DP Transformer Theft Monitoring System	1Year	AICTE	20000.00
Child Safety Wearable Device	1Year	Aptron Technologies, Maharashtra, India	18000.00
Designing and Analysis of AC Power Control by Programmable Interface	1Year	Aptron Technologies, Maharashtra, India	15000.00
Design and Installation of High Capacity Centralized Coolant Pump for Optimization of Power Using VFD Controller	1Year	Ravi Electrical, Satara, Maharashtra,India	22000.00
lot based Solar Monitoring and Control	1Year	Ravi Electricals, Satara, Maharashtra, India	15000.00
Wireless robotic vehicle to supply food and medicines to covid-19 patients.	1Year	Ravi Electricals, Satara, Maharashtra, India	20000.00
AI - Based Touchless Attendance System for School, Colleges after COVID-19 Situation with Temperature, Oxygen Level, Face Mask Detection	1Year	Siddheshwar Electricals, Satara, Maharashtra, India	10000.00
To Design and Develop Prototype for Industrial Cobot	1Year	Sai industries additional MIDC , Satara, Maharashtra,India	10000.00
Ultra Fast Circuit Breaker Using Arduino for Overlaod Protection	1Year	Sai industries additional MIDC , Satara, Maharashtra,India	22000.00
Design and Implementation of Manul rotation of Solar Plate for Maximum Energy Output	1Year	Shivam Enterprise, Satara, Maharashtra, India	20000.00
Solar Tracking System Using Arduino	1Year	Shivam Enterprise, Satara,Maharashtra, India	10000.00
E - Lite Bicycle	1Year	Ravi Electricals, Satara, Maharashtra, India	15000.00
Automatic Car Parking Using Arduino System	1Year	Shivam Enterprise, Satara, Maharashtra, India	22000.00

IOT Based Smart Public Ration Distribution System	1Year	Siddheshwar Electricals, Satara, Maharashtra,India	15000.00
Robot for Waste and Garbage Collection in Water	1Year	Ravi Electricals, Satara, Maharashtra, India	20000.00
Design and Implementation of Manul rotation of Solar Plate for Maximum Energy Output		Siddheshwar Electricals, Satara, Maharashtra,India	10000.00
Analysis and Implementation of Solar Tracking System		Sai industries additional MIDC , Satara, Maharashtra,India	10000.00
			Total Amount(X):2 74000.00

2020-21(CAYm2)

ProjectTitle	Duration	Funding Agency	Amount
AICTE Margdarshan Menter-Mentee Scheme	1Year	Aptron Technology, MIDC, Satara, Maharashtra, India	500000.00
UndergroundCable FaultDetection UsingIoT	1Year	Aptron Technology, MIDC, Satara, Maharashtra, India	20000.00
IoT - BasedSmartEnergyManagementSystemofElectricalVehicle ChargingStation	1Year	Sai Industries, additional MIDC Satara, Maharashtra, India	18000.00
Reverse Rotation Controller for Rotating Equipment	1Year	Ravi Electricals, Satara, Maharashtra, India	15000.00
IoT-BasedInductionMotorMonitoringSystem	1Year	Ravi Electricals, Satara, Maharashtra, India	22000.00
Automatic Power Factor Controller	1Year	Aptron Technology, MIDC, Satara, Maharashtra, India	15000.00
IoT-BasedSmartEnergyMeterMonitoringandBillingSystem	1Year	Arvind Gavali College of Engineering, Satara, Maharashtra, India	20000.00
4KW Solar Control Panel Designing and Mounting	1Year	Arvind Gavali College of Engineering, Satara, Maharashtra, India	10000.00
On-Grid 4KW Solar Lighting Power Plant Installation	1Year	Sai Industries, additional MIDC Satara, Maharashtra, India	10000.00
Induction Motor Rotation in Bidirectional Through A RemoteControl Device	1Year	Sai Industries, additional MIDC Satara, Maharashtra, India	22000.00
Power Distribution Station Monitoring System Using IoT	1Year	Aptron Technology, MIDC, Satara, Maharashtra, India	20000.00
${\sf IoT-BasedWaterDistributionMonitoringSystem in A partments}$	1Year	Ravi Electricals, Satara, Maharashtra, India	10000.00
			Total Amount(X): 23, 2000.00

Cumulative Amount (X + Y + Z) = 881000.00

5.7.3 Development Activities

ProductDevelopment:

1. Title of the Invention: Automated battery distilled water filling, water filter

flushing, and fertilizers sprayerPatent Application No.: 202121023957

Date of Filing: 29 May 2021Status: Published

Government of India Ministry of Commerce & Indu Department of Industrial Poli Controller General of Patents			romotion In & Trade Ma	arks	Welcome Dr. Reena Singh Sig
Online Fili	ing Of P	atents		_	INTELLECTUAL PROPERTY IND
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ADH)	Date of	Filing	29/05/2021 07:	19-30	
dd Mobile Number	Type O	Applicant:	NP	39.99	
dd Email to	Title Of	Invention:	Automated Ba	attery Distille	ed Water filling, Water filter flushing and Fertilizers Sprayer.
Econ	0.000		Arvind Gavali	College of E	Engineering, Satara, MH, India. Sponsoring Firm: Siddheshwar
w Application	Addres	s Of Service:	Electricals Ao	dress of the	Firm: Rajgurunagar, Sangam Mahuli Phata, Satara-415003, MH, India.
CT National Phase			Email id: piyushkarande825@gmail.com, piyushkarande70@gmail.com Karande Piyush Naresh (Final Year B-Tech (Electrical Engineering), Karande Runali Ni		Final Year B-Tech (Electrical Engineering) Karande Runali Naresh
G I Passiverent & second	Applicant Name, (Owner of Siddheshwar Electricals), Karande Naresh Uttam (Employee at MSEDCL		The second		
pplication	Applica	wat Mamp:	(Owner of Sid	dheshwar El	lectricals) , Karande Naresh Uttam (Employee at MSEDCL
pplication lie Form 2	Applica	ant Name:	(Owner of Sid Maharashtra	dheshwar El state electric	lectricals) , Karande Naresh Uttam (Employee at MSEDCL city distribution corporation limited) , Karande Ayush Naresh
pplication le Form 2 le Form 9	Applica	ant Name:	(Owner of Sid Maharashtra (Employee at Arvind Gavali	dheshwar El state electric Siddheshwa College of E	lectricals), Karande Naresh Uttam (Employee at MSEDCL city distribution corporation limited), Karande Ayush Naresh ar Electricals) Fonionerine, Satara, MH, India, Sponsoring Firm: Siddheshwar
pplication le Form 2 le Form 9 le Form 13	Applic	ant Name: ant Address:	(Owner of Sid ,Maharashtra (Employee at Arvind Gavali Electricals Ad	dheshwar El state electric Siddheshwa College of E dress of the	Jectricals), Karande Naresh Uttam (Employee at MSEDCL city distribution corporation limited), Karande Ayush Naresh r Electricals) Engineering, Satara, MH, India. Sponsoring Firm: Siddheshwar Firm: Rajgurunagar, Sangam Maholi Phata, Satara-416003, MH, India.
pplication lie Form 2 lie Form 9 lie Form 13 lie Form 18	Applic	ant Name: ant Address:	(Owner of Sid ,Maharashtra (Employee at Arvind Gavali Electricals Ad Email id: piyu	dheshwar El state electric Siddheshwa College of E dress of the shkarande8	lectricals), Karande Naresh Uttam (Employee at MSEDCL city distribution corporation limited), Karande Ayush Naresh ir Electricals) Engineering, Satara, MH, India. Sponsoring Firm: Siddheshwar Firm: Rajgurunagar, Sangam Mahuli Phata, Satara-415003, MH, India. 25@gmail.com, piyushkarande70@gmail.com
pplication life Form 2 life Form 9 life Form 13 life Form 18 life Form 28	Applic	ant Name; ant Address:	(Owner of Sid ,Maharashtra (Employee at Arvind Gavali Electricals Ad Email id: piyu	dheshwar El state electric Siddheshwa College of E dress of the shkarande82	Jectricals), Karande Naresh Uttam (Employee at MSEDCL. city distribution ocroporation limited), Karande Ayush Naresh tr Electricals) Engineering, Satara, MH, India. Sponsoring Firm: Siddheshwar Firm: Rajgurunagar, Sangam Mahuti Phata, Satara-415003, MH, India. 25@gmail.com, piyushkarande70@gmail.com
pplication like Form 2 like Form 9 like Form 13 like Form 13 like Form 28 ORM 30 (NEW)	Applic: Applic: Sr:No	ant Name: ant Address: . Applicant Na	(Owner of Sid Maharashtra (Employee at Arvind Gavali Electricals Ad Email id: piyu	dheshwar El state electric Siddheshwa College of E dress of the shkarandes: Applicant Type	Instrictals), Karande Naresh Uttam (Employee at MSEOCL. city distribution corporation limited), Karande Ayush Naresh r Electricals) Engineering, Satara, MH, India. Sponsoring Tim: Siddheshwar Fim: Rajgurunagar, Sangam Mahuli Phata, Satara-415003, MH, India. 25@gmail.com, piyushkarande70@gmail.com
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Figure 5.7.3(a)

2. Title of the Invention: Retrofit kit to convert normal solar water heater system into hybrid solar water heater systemPatent Application No.: 202121048704 Date of Filing: 25thOctober 2021Status: Published

Quick Form Filing	- Statement & Und	ertaking under Section
Reply for Patent Prosecution Highway (PPH)		8
All Form	Application Number:	202121048704
New Application	Date of Filing:	25/10/2021 20:33:20
PCT National Phase	Type Of Applicant:	NP
Application	103010/08/10 1920	Retrofit Kit to Convert Normal
File Form 2	Title Of Invention:	to Hybrid Solar Water Heater
File Form 9		System.
File Form 13		Karande Piyush Naresh
File Form 18		Address: Anurup Bunglow
File Form 28	Address Of Service:	415003. MH. India. Firm-
FORM 30 (NEW)		Siddheshwar Electricals Agce
Renewal of Patent		Alumnus.
Reply to Examination Report	Applicant Name:	Karande Piyush Naresh , Karande Ayush Naresh , Karande Naresh Uttam
Petition under rule 6(6)		Anurup Bunglow Sangam Mahuli Phata Satara-415003.



Thedepartment has conducted EnergyAudit through project-basedlearning. The Energy Audit activities have been carried out for the following government offices:

1. Buildings/Officesof PanchganiGiristhanNagar Parishad, Panchgani, Dist.Satara, Maharashtra, India

2. Buildings/Officesof SataraNagar Parishad(District Satara):

Energy Audit completed for Vaduj Nagar Panchayat

EnergyAuditcompletedforKoregaonNagarPanchayat

Description:

An Energy audit is an on-site survey and assessment of Energy-using fixtures, appliances, and management practices to determine the efficiency of Energy use and to develop recommendations for improving Energy-useefficiency.Insimplewords, anEnergyauditis asystematicreviewof asitethatidentifiesthe quantitiesandcharacteristicsof alltheEnergyuses. Thesitemayvary fromapublicEnergyutility, facility(institutionalorcommercial properties likemalls, offices, schools, etc.)or a Household. Theoverall objective ofconducting an Energy auditis to identify opportunitiesto make asystem or building Energyuse more efficient.

Objectives of the Energy Audit:

1. Isto achieve and maintain optimum energy procurement and utilization, throughout the Organization.

2. Tominimizeenergycosts/wastewithoutaffectingproduction&quality.

3.Tominimizeenvironmentaleffects.

4.ConductasimpleWalk-Through auditorobservation of the energy consumption of electrical appliances within the Koregoan Nagar palikabuilding.

5.Reviewand analyze energy usage history tocreate a baseline for which savings canbe measured in the Audited building

6.Determinewhat can be done to reduce energy consumptionthroughout the buildings and what options are available for system improvements if funding is available

7.Identify and evaluate measures that could improve the environmental performance of the Buildings/wards and provide recommendations

Instructional Material:

1. 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. In every course, a teacher can store instructional materials like

PowerPoint presentations, videos, animations, and lab manuals. The same is available to

the enrolled students 24×7 .

Teacherscanschedule quizzesand assignmentsfortheir subjectsperiodically. Quizzesare basedonMultiple ChoiceQuestions (MCQs) and assignmentscanbe uploadedfor assessment. The gradesobtainedby thestudents are visible immediately after the quiz is attempted.

2. ProjectPosters:

StudentsareencouragedtoparticipateinPosterPresentationcompetitions.Posterspreparedbyth estudentsandpresentedininnovativeprojectcompetitionssuchasAVISHKARandANVESHA Naremadeavailableto the students for study and presentation purposes.

3. Laboratory Manuals:

The following Laboratory Manuals have been developed by the faculty members:

Sr.	Semester	Year	Name of the Subject
190.			
1	Even Semester	SY B. Tech	1. Network Theory lab
			2. Power System lab
			3. Electrical Machines-II lab
			4. Analog and Digital Electronics lab
			1. Switchgear and Protection lab
		TY B. Tech	2. Electrical Machine Design lab
			3. Control System Engineering lab
2	Odd Semester	SY B. Tech	1.Electrical Machines-I lab
			2. Electrical and Electronics Measurement lab
			1.Power System Analysis lab
			2. Microprocessor and Microcontroller lab
		TY B. Tech	3. Power Electronics lab
			1.High Voltage Engineering lab
			2. Electrical Drives lab
		Final Year B. Tech	3. Power System Operation & Control lab

Table1:Lab.Manualsavailableinthedepartment

Table 7.Lab Manuals for the Subjects under Electrical for the Academic Year 2021 - 22

The laboratory manuals for the following subjects have been prepared by the faculty members of the department:

Sr.No.	Class	Name of the Subject
1	SYB.Tech(Electrical)	 Electrical Machines – I Electrical & Electronics Measurement Analog & Digital Electronics Network Theory Power Systems Electrical Machines - II
2	TY B. Tech(Electrical)	 Power Systems – II Microprocessor and Microcontroller Principles of Electrical Machine Design Power Electronics
3	Final Year B.Tech(Electrical)	 Power System Operation & Control Electrical Drives

Table 2: Lab. Manuals available in the department

4.Working Models/Charts/Monograms etc.:

Following is the list of charts displayed in the laboratories of the Electrical department:

Laboratory Charts:

The following is the list of Laboratory charts available in the laboratories of the department Academic year 2022-23:

Sr.No.	Name of the Laboratory	Name of the Chart
1	Electrical & Electronics Measurement Lab.&Analog Electronics & Circuit Lab.	 Major equipments and lab layout Domain-wise images and companies list Top companies list
2	Network Theory	 Major equipments and lab layout Domain-wise images and companies list Top companies list
3	Power System and Simulation lab	 Major equipments and lab layout Domain-wise images and companies list Top companies list
4	Electrical Machines Lab.1	 Major equipments and lab layout Domain-wise images and companies list Top companies list
5	Electrical Machines Lab. 2	 Major equipments and lab layout Domain-wise images and companies list Top companies list
6	Power Electronics & Electrical Drives and Control Lab.	 Major equipments and lab layout Domain-wise images and companies list Top companies list
7	Switchgear and Protection& Basic Electrical Engineering Lab	 Major equipments and lab layout Domain-wise images and companies list Top companies list

Table1:LaboratoryChartsavailableinthedepartmentlabs.

The following is the list of Laboratory charts available in the laboratories of the department Academic year 2021-22:

Sr.No.	Name of the Laboratory	Name of the Chart
1	Electrical & Electronics Measurement Lab.	 List of Experiments of Measurement &Instrumentation Transducers Measuring Devices & Instruments
2	Analog Electronics & Circuit Lab.	 List of Experiments of Electromagnetics &Electrical Circuits Electric Circuit Analysis (NortonEquivalent Circuit) Electric Circuit Analysis (Star- DeltaTransformation) Electrical Schematic Symbols
3	Electrical Machines Lab.	 Constructional Details of DC Motor WorkingofDCMotor
4	Electrical Machines Lab. 2	 List of Experiments of AC Machines Synchronous Generator
5	Electrical Drives & Control Lab.	1. List of Experiments of Electrical Drives and Control
6	Basic Electrical Engineering Lab	 Electrical Safety Precautions Advanced Switchgear & Protection Lightning Arrestors – 7 Types Circuit Breakers

Table 2: Laboratory Charts available in the department labs.

Provide details:

- Product Development
- Research laboratories
- Instructional materials
- Working models/charts/monograms etc.

Product Development:

Geo-tagging Application for Conducting Heritage Tree Census Survey

The objective of the project is as follows:

- > The primary objective was to map all the trees present in all zones under the jurisdiction of Panchgani Hill Station Municipal Council.
- The other objective was to understand the diversity, density, and distribution of trees in the Panchgani region.

The scope of the project is as follows:

- Development of mobile and web application for carrying out tree census in the Panchgani Hill Station Municipal Council jurisdiction area.
- Conduct the tree census in the Panchgani Hill Station Municipal Council jurisdiction area using GPS enabled android device.
- Create a digital library (database) of trees containing their common name, botanical name, tree photo, and its use.

Sr.	Parameter Type	Parameter Name
No.		
1	General Parameters	➢ Ward Number
		Photograph
2	Geographical	➤ Latitude
	Parameters	Longitude
3	Technical Parameters	Common Name/Botanical Name
		Condition of the Tree
		Age of the Tree
		Height of the Tree
		➢ Girth of the Tree
		Whether Having Medicinal Uses



Figure 5.7.3(a) Heritage Tree Census Being Conducted by the Students of AGCE, Satara at Panchgani Hill Station, Panchgani, Dist. Satara, Maharastra, India



Figure 5.7.3(b) Heritage Tree Census Being Conducted by the Students of AGCE, Satara at Panchgani Hill Station, Panchgani, Dist. Satara, Maharashtra, India



Figure 5.7.3(c) Screenshot of the Mobile Application (GeoPanchgani) Showing the Geotagged Trees on Google Earth

10:51 🏶 📽		10 S. III a
← Tre	e Data	
Latit	tude	17.925275
Long	itude	73.802156
Open	in Map	Pick Location
, Ward No		
2		
, Tree Serial No		
H-611		
Tree Name -		
eucalyptus		
Address		
m.p.garder	n	
Girth (cm) —		
111	(

Figure 5.7.3(d) Screenshot of the Mobile Application Geo-Panchgani(Admin Section) Showing the Parameters for One Tree

Transformer Theft Protection and Monitoring:

The objective of the project is as follows:

Development of an anti-theft device for protection of distribution transformers of Maharashtra State Electricity Distribution Company Limited (MSEDCL) from theft in remote rural and agricultural areas.

The scope of the project is as follows:

Development of an anti-theft device for distribution transformers based on the concept of Internet of Things (IoT).

- ➢ Attainment of minimum cost per device
- > Designing the device to be compact and difficult to detect.

5.7.4 Consultancy (from Industry) (05)

Funding amount (Cumulative during CAYm1, CAYm2, and CAYm3): Amount > 10 Lakh

	- 5 Marks
Amount ≥ 8 Lakh and ≤ 10 Lakh	
Amount $N = 6$ I also and $\zeta = 8$ I also	- 4 Marks
Amount $2 = 0$ Lakii and $3 = 0$ Lakii	- 3 Marks
Amount ≥ 4 Lakh and ≤ 6 Lakh	
Amount $\lambda = 2$ Latch and $\zeta = 4$ Latch	- 2 Marks
Amount ≥ 2 Lakii and ≤ 4 Lakii	- 1 Mark
Amount < 2 Lakh	
	- 0 Mark

2022-23(CAY)

S. No.	Faculty Name	Company	Revenue Generated (in Rs.)
1	Dr. B. M. Nayak	Ravi Electricals, Satara, Maharashtra, India	20,000/-

2022-23(CAY)

Project Title	Duration	Funding Agency	Amount
Voice Controlled Robotic Vehicle	1Year	Siddheshwar Electricals, Satara, Maharashtra, India	20000.00
Self Balancing Robot	1Year	Ravi Electricals, Satara, Maharashtra, India	17000.00
Arduino based Seven Stage Multi level Inverter	1Year	Sai industries, additional MIDC, Satara, Maharashtra, India	15000.00
Aumatic Drip Irrigation System using	1Year	Ravi Electricals, Satara, Maharashtra, India	16000.00
Microcontroller and Electrical devices			
Solar Operated Mobile Pesticide and Fertilizer	1Year	Ravi Electricals, Satara, Maharashtra, India	15000.00
Sprayer			
IoT Based Solar Power Plant Automation	1Year	Siddheshwar Electricals, Satara, Maharashtra, India	20000.00
Battery Swapping System for Electrical Vehicle	1Year	Siddheshwar Electricals, Satara, Maharashtra, India	12000.00
Speed Control of Induction motor	1Year	Ravi Electricals, Satara, Maharashtra, India	10000.00
			Total Amount(X):1 25000.00
2021-22(CAYm1)

ProjectTi tle	Duration	Funding Agency	Amount
Enhancement to DP Transformer Theft Monitoring System	1Year	AICTE	20000.00
Child Safety Wearable Device	1Year	Aptron Technologies, Maharashtra, India	18000.00
Designing and Analysis of AC Power Control by Programmable Interface	1Year	Aptron Technologies, Maharashtra, India	15000.00
Design and Installation of High Capacity Centralized Coolant Pump for Optimization of Power Using VFD Controller	1Year	Ravi Electrical, Satara, Maharashtra, India	22000.00
lot based Solar Monitoring and Control	1Year	Ravi Electricals, Satara, Maharashtra, India	15000.00
Wireless robotic vehicle to supply food and medicines to covid-19 patients.	1Year	Ravi Electricals, Satara, Maharashtra, India	20000.00
AI - Based Touchless Attendance System for School, Colleges after COVID-19 Situation with Temperature, Oxygen Level, Face Mask Detection	1Year	Siddheshwar Electricals, Satara, Maharashtra,India	10000.00
To Design and Develop Prototype for Industrial Cobot	1Year	Sai industries additional MIDC , Satara, Maharashtra,India	10000.00
Ultra Fast Circuit Breaker Using Arduino for Overlaod Protection	1Year	Sai industries additional MIDC , Satara, Maharashtra,India	22000.00
Design and Implementation of Manul rotation of Solar Plate for Maximum Energy Output	1Year	Shivam Enterprise, Satara, Maharashtra, India	20000.00
Solar Tracking System Using Arduino	1Year	Shivam Enterprise, Satara, Maharashtra, India	10000.00
E - Lite Bicycle	1Year	Ravi Electricals, Satara, Maharashtra, India	15000.00
Automatic Car Parking Using Arduino System	1Year	Shivam Enterprise, Satara, Maharashtra, India	22000.00
IOT Based Smart Public Ration Distribution System	1Year	Siddheshwar Electricals, Satara, Maharashtra,India	15000.00
Robot for Waste and Garbage Collection in Water	1Year	Ravi Electricals, Satara, Maharashtra, India	20000.00
Design and Implementation of Manul rotation of Solar Plate for Maximum Energy Output	1Year	Siddheshwar Electricals, Satara, Maharashtra,India	10000.00
Analysis and Implementation of Solar Tracking System	1Year	Sai industries additional MIDC , Satara, Maharashtra,India	10000.00
			Total Amount(X):2740 00.00

2020-21(CAYm2)

ProjectTitle	Duration	Funding Agency	Amount
AICTEMargdarshanMentor-MenteeScheme	1Year	AICTE	500000.00
UndergroundCable FaultDetection UsingIoT	1Year	Aptron Technologies, Maharashtra, India	20000.00
IoT- BasedSmartEnergyManagementSystemofElectricalVehicl eChargingSystem	1Year	Aptron Technology,MIDC, Satara, Maharashtra, India;	18000.00
Reverse Rotation Controller for Rotating Equipment	1Year	Sai industries additional MIDC , Satara, Maharashtra,India	15000.00
IoT-BasedInductionMotorMonitoringSystem	1Year	Ravi Electricals, Satara, Maharashtra, India	22000.00
Automatic Power Factor Controller	1Year	Ravi Electricals, Satara, Maharashtra, India	15000.00
IoT-BasedSmartEnergyMeterMonitoringandBillingSystem	1Year	Siddheshwar Electricals, Satara, Maharashtra,India	20000.00
Induction Motor Rotation in Bidirectional Through A Remote ControlDevice	1Year	Sai industries additional MIDC , Satara, Maharashtra,India	22000.00
Power Distribution Station Monitoring System Using IoT	1Year	Sai industries additional MIDC , Satara, Maharashtra,India	20000.00
IoT-BasedWaterDistributionMonitoringSysteminApartments	1Year	Shivam Enterprise, Satara, Maharashtra, India	10000.00
Priority- WisePowerDistributionandSafetyControllerMonitoringSy stem Using IoT	1Year	Aptron Technologies, old MIDC Satara,Maharashtra, India	15000.00
EnergyRegenerative Braking ofBLDC Motor byUsing Super Capacitor in EV applications	1Year	Ravi Electricals, Satara, Maharashtra, India	18000.00
			Total Amount(X):695 000.00

Cumulative Amount(X + Y + Z) =1094000.00

5.8 Faculty Performance Appraisal and Development System (FPADS) (30)

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 industry. Another role relates to the shouldering of administrative responsibilities and co-operation with other Faculty, Heads-of-Department and the Head of 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)

1. Performance appraisal system of the faculty:

Annual self-assessment for the performance-based appraisal system is adopted as per the UGC notification 30th June 2010 approved by the Govt. of Maharashtra state vide GR dated 15th 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 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.

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.

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 **Highest Qualification** Designation Experience Program Mobile No. Email Permanent Address (with pin code) Academic Year

Dr. B. M. Nayals 04/03/1986 UG/PG/Ph D. Associate Protend . Teaching: 12 Electrical Engg. 7775966294. Industrial: -Total: 12 bonayali . aqce @ gonail. Com . Alp. Satana. 2022-23.

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 (fo official use)
1.A	Excellent course file for the subject, teaching plan displayed	20	Course-bile per subje	ct 18	16
1.8	Conducting practical lab. / tutorials; work nicely with lab innovations	20	EM-1, EM 11, EMD Lab Gooducted to sy. MTY	19.	17
1.C	Student Feedback outcome	10	Excellent feed back	09	17
2.A	Remedial Classes OR Extra lectures for DSE students	1 4	Estra lecture contraction to all Day, TY, Stud.	N OLY	04
2.8	Content beyond syllabus	6	Necessary extre post	ENDI OG	04
3.A	Preparation and Imparting of knowledge / instruction as per curriculum;	10	All subject's EM-1, EM-1, EM-1, CSE, EMD Condu 30 per	10	09
3.B	syllabus enrichment by providing additional resources to students	10	NPTELVEdeolent's	09	08
4.A	Number of ICT Based Teaching material	. 5	60% Lecture Conducted		
4.B	Number of Interactive Courses	5	-In Borgh 1CT.	04.	04
4.C	Effective use of MOODLE		All Englauchive materia	8-0	02
5.A	At Institute Level	10	attendomce Exemptions	Oq	08
5.11	As the level	15	of College	13.	13
5.6	At University Level	10	Recearch BRONTS	80	
	Total Score C	125		111	
	Minimum API Score Required	75			101

Figure 5.8 (a) Performance Appraisal Form Page 1

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	CATEGORY II: CO-CURRICULAR, EXTE	NSION AND TR			State of
ief Expl velopm low. It v e list of ould be Studen ibject re Contril ommitte	lanation: Based on the teacher's self-assessment, ca ent related contributions. The minimum API require will be noticed that all teachers can earn scores from activities is broad enough for the minimum API scon based on objectively verifiable criteria and will be fi t related co-curricular, extension and field based act lated events, advisement and counseling) pution to Corporate life and management of the depa ess and responsibilities.	tegory II API sco d by teachers fo a number of iter re required [15] nalized by the sc wities (such as e rtment and insti in seminars, con	res are proposed for co curricula r eligibility for promotion Is 15. A ns, whereas some activities will b in this category to accrue to all te reening/selection committee. xtension work through NSS/NCC tution through part/cipation in ac- ferences, short term, training cour	r and extension activ list of items and proj e carried out only by anchers. As before, the and other channels, c ademic and ses, talks, lectures, m	tties: and Professional posed scores is given one or a few teachers, self-assessment score ultural activities, administrative embership of
ssociati Sr. No.	ons, dissemination and general articles, not covered Performance Indicator	in Category III be Max points	elow) 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	Guided to Frank project prosp's. One group wento to Dever	03.	03
1.8 -	Industry tour / visit, Visit to technical Exhibition	4	a. AG Electro Services	04.	04
1.C	Arranged the invited talks / Expert lecturers at Department / Institute level	4	yes. Quest lecture arranged to sy, TY Grudent's	03.	03
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	4		00,	-
1.E	extension work through NSS/NCC and other channels, cultural activities	4	Admitsson 04	oty.	02
2.A	Institute level Responsibilities (Deans/COE: 05, Heads:3, other:02)	5	Wead Institute. (evel alumni Co. Sido	5 05.	03
2.8	Event Coordinators (Institute Level: 05,Department Level: 03,Participation:02)	5	project Compitients Institute Level. (Budjet: Co-Sidsmats)	». 05 ·	05
2.C	Department Level Responsibilities: 05,Participation:02	5 -	-All Responsetilities	05	05
3.А	Participation in short term tunining courses, emriculum development, training courses, talks, lectures	5	yes, pasticipated hst. Weikshop, Evereday's) training	05	05
3.B	Membership of professional associations committees, Boards of Studies, editorial committees of journals / institutional publications.	5	Two Bodies Life	ip 03	03
3.C	Participation in subject associations, conferences, and seminars without paper presentation.	S	-	-	-
	Total Score	50		37	33

Figure 5.8 (b) Performance Appraisal Form Page 2

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/ sympo

Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
14	Referend tournals *	20/ 2 publication	EEE, IJEER, Neuso	20.	20
1.B	Non-refereed but recognized and reputable journals and periodicals, having ISBN/ISSN numbers	10 / 2 Publication	ICIRTES	03 10-	10
1.0	Conference proceedings as full papers, etc. (Abstracts not to be included)	5/2 publication	JCIHCHN	05	05
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	Gated connected Convertes topology on prenewable power	15	15
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	1.1.1		-
	Sponscred Projects carried out/ ongoing		* (3		
3.A	a) Major Projects amount mobilized with grants in between Rs.10,000 to Rs.50,000/-	10 /2 major project.	DBATU(3L) PROject Research	5	S
	b) Minor Projects (Amount mobilized with grants upto Rs.10,000/-	7 /2 minur Project	- 0		
З.В	Consultancy Projects carried out / ongoing: Amount mobilized with upto Rs.15,000/-	10 consultancy	Work Cashedont	5	5
3.C	Completed projects Quality Evaluation: Completed project Report(Acceptance from funding agency)	7 /each major project and 5 /each minor project	- 3 ×	State	Fa - S.
3.D	Projects Outcome / Outputs: Patent/Technology transfer/ Product/Process	7 / each state level output or patent /14 /each for national level	-	-	-

Figure 5.8 (c) Performance Appraisal Form Page 3

4.A M.Tech/M.Phil- Degree awarde	d only 2/exh			
Ph.D.		Ph.D	2	
4.B a) Degree awarded	4/exts	-	4	12
b) Thesis submitted	1 /each			and the second
a) Not less than two weeks dur.	ation 7/each	10 mil 10 mil 10 mil		1
b) One week duration	S/each			
Participation and Presentation (oral/poster) in	of research papers			
a) International conference	A each	03 contesperce	24.	24
5.8 b) National conference	6/ each			
c) Regional/State level	4 fearts	-		
d] Local – University/College	2/each	-		
a) National level	5/each	-		
b) State level	2/easth	-		
Total Score	175	-	90.	84
Minimum API Score Reg	uired 70			

*Wherever relevant to any specific discipline, the API score for paper in refereed journal would be augmented as follows: (1) 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 (a)(III)). 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	111	37.	90.	236
Score by Screening/ selection committee	101	83	89	218

Date: 12/09/2023 -AGCE, Satase.

Recommendation by screening team (Acae

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GE Head of Department

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Figure 5.8 (d) Performance Appraisal Form Page 4

Figure 5.8: (a), (b), (c), and (d) Performance appraisal formofDr.B.M.Nayak

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API	PRAISAL AND 360 ⁰ FEEDB/	CK FORM
	Miss Hali Ashlesh	a Bhimsuo
	Assistant Poofesso	6 ustrial: /

Namo	: M155
Patrice of Birth	: 18/ 11 /
Date of Birth	· UG / PG
Highest Quanneation	Assie
Designation	
Experience	: 1 enching
Program	Elect
Mobile No.	- 70
Email	ashle
Permanent Address (with pin code)	· //0-
Academic Year	- 200

151011 100 112500 151011 201 100 100 15101 Engineeraing. 153743002 153743002 1530 101 1935 @gmoil.com Kasegaon Tol- walwa Jisl - Sangli 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 allotn ent

Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1.4	Excellent course file for the subject, teaching plan displayed	20	course file completed	15	16
1.B	Conducting practical lab. / tutorlals; work nicely with lab innovations	20	conducted	18	17
1.C	Student Feedback outcome	10	Kend good nemoch	9	9
2.A	Remedial Classes OR Extra lectures for DSE students	4	YES. FOR EMS SUBJ EXIDA. LECTIONS istation	4	3
2.B	Content beyond syllabus	6	Yes daten sum extaci	6	5
3.A	Preparation and Imparting of knowledge / instruction as per curriculum;	10	All syllobus conducted	10	10
3.В	syllabus enrichment by providing additional resources to students	10	video/omimation	9	9
4.Λ	Number of ICT Based Teaching material	5	70 % 257 based	5	4
4.B	Number of Interactive Courses	5	monoled students to	5	
4.C	Effective use of MOODLE	10	upbaded. All indusid.	d	
5.	At Institute Level	15	> 3R.P.D OL EXTON		8
5.B	At University Level	10	SPRD of university	15	15
	Total Score	175	EN ST ST ST ST ST	0.	8
	Minimum API Score Required	75		116	100

Figure 5.8 (a) Performance Appraisal Form Page 1

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.

3. 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	Guide one B-Tech moster 4 one TY- mini moster worn ist moster in moster comp	4 dion.	3
1.B	Industry tour / visit, Visit to technical Exhibition	4	1) HYDC substation 2) AG, Etector Surveys	oxed. 4	4
1.C	Arranged the invited talks / Expert lecturers at Department / Institute level	4	Amonged online Hyle expool techneo Hyle expool techneo	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	-	00	
1.E	extension work through NSS/NCC and other channels, cultural activities	4	5 students, toom by GFM balch posici	nalkil 04.	45
2.A	Institute level Responsibilities (Deans/COE: 05, Heads:3, other:02)	5	1) SRDD inchooge. 2) Provo of gials ho	stel 02.	2
2.B	Event Coordinators (Institute Level: 05,Department Level: 03,Participation:02)	5	cultural Event	05.	5
2.C	Department Level Responsibilities: 05,Participation:02	5	1) Exam coordinators	0 5.	5
3.A	Participation in short term training courses, curriculum development, training courses, talks, lectures	s	FOP 4 wookshop	04.	_3
3.B	Membership of professional associations committees, Boards of Studies, editorial committees of journals / institutional publications.	5	-	-	
3.C	Participation in subject associations, conferences, and seminars without paper presentation.	5	-	-	-
	Total Score	50		32.	30
	Minimum API Score Required	20			

Figure 5.8 (b) Performance Appraisal Form Page 2

	CATEGORY-I	II: RESEARCH AND	ACADO NE CONTRIBUTIO	NS					
rief Exp quired ased on	lanation: Based on the teacher's self-assessment, by teachers from this category is different for diffe verifiable criteria and will be finalized by the scree	AFS score:samep.cop sent levelsoff.com ning/selectun com	osed for research and acade tion and between university mittee.	ing contributions. The mi and colleges. The self-ass	nimum API score sessment score will be				
Researc	th Papers published in:								
2. Research Publications(books, chapters in books, other than refereed journal articles;) 3. RESEARCH PROJECTS									
TRAINI	NG COURSES AND CONFERENCE /SEMINAR/WORKSH	OP PAPERS							
A. Refi levelopm B. Pap	esher courses, Methodology workshops, Training, Te ent Program, Faculty Development Programs (Max: 3 ers in Conferences/ Seminars/ workshops etc.**	aching Learning,Evail 80 points):	Lation Technology Programs, S	Soft Skills					
C. Inv	ited lectures or presentations for conferences/ sympo	osia		-	E.				
Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified AP1_ore (fo				
1.4	Referred tournals	20/ 2 publication	-	00					
1.B	Non-refereed but recognized and reputable journals and periodicals, having ISBN/ISSN numbers	10/2 Publication	-	10	15				
1.C	Conference proceedings as full papers, etc. (Abstracts not to be included)	5%/T publication	-	-	-				
2.A	Text or Reference Books Published by International Publishers with an established peer review system	20 /sole aution; 5 /chapter in an edited book		-	-				
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	· · .	-	-				
2.0	Subject Books by Other local publishers with ISBN/ISSN numbers.	10/ sole author, and 2.7 chapter in edited books		-	-				
2.D	Chapters contributed to edited knowledge based volumes published by International Publishers	5 /Chapter	-	7					
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		-	-				
	Sponsored Projects carried out/ ongoing		they be		r				
3.A	a) Major Projects amount mobilized with grants in between Rs.10,000 to Rs.50,000/-	10 /2 major project	\`	-	1 (<u>1</u>)				
	b) Minor Projects (Amount mobilized with grants upto Rs.10,000/-	7 /2 minue Project		-	-				
3.6	Consultancy Projects carried out / ongoing: Amount mobilized with upto Rs.15,000/-	10 consultancy							
3.C	Completed projects Quality Evaluation: Completed project Report(Acceptance from funding agency)	7 /each major project and 5 /each minor project	·		to all for				
20	Projects Outcome / Outputs:	7 / each state level output or patient /34 /each for			-				

Figure 5.8 (c)Performance Appraisal Form Page 3

	and a superded only	2 /mach	TH. Tech EPS.	2	2
A M.Tech/M.	hil- Degree awarded only		-	-	
Ph.D.	12.13 1.13			-	
.B a) Degre	e awarded	4 /each			
b) Thesis	submitted	1 Jeach	-		
a) Not less t	han two weeks duration	Tjeach	-	-	
iA hi One work duration	duration	5/each		-	1
Participation	and Presentation of research p	sapers		The second	
a) Internatio	a) International conference		- TWO POP 88	16	14
B b) National	conference	6/ each	-	-	
c) Regional/	State level	4 /earth	-	-	
d) Local - U	d) Local - University/College		-	-	
a) National	level	5 /each	-	-	
5.C b) State lev	el	2/each	-	-	
	Total Score	175		30	2.6
Minler	um API Score Required	70			

*Wherever relevant to any specific discipline, the API score for paper in refereed journal would be augmented as follows: (1) indexed journals – by 5 points; (1) papers with impact factor between 1 and 2 by 10 points; (11) papers with impact factor between 2 and 5 by 15 points; (1v) 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	116	32	30	178.
Score by Screening/ selection committee	108	30	26	165
Date: 12/09/25 Place: 50-1000. Recommendation by screening team (Academic Monit - To CREASE-THE POL - To CREASE-THE POL - To CREASE RE	sig Des public 29561-2 to	ahore . PhD		
for Antone Head o	r Department	() Registrar	ти P	finciple

(d)Performance Appraisal Form Page 4

Figure 5.8:(a),(b),(c),and(d)Performance appraisal form of Ms. Ashlesha Mali

5.9: Visiting/Adjunct/Emeritus Faculty etc. (10)

Adjunct faculty also includes Industry experts. Provide details of participation and contribution 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 \times 3 years = 9 marks)

The following are the details for the Visiting faculty in the department:

Sr.	Academic	Odd/Even	Name of the	Class	Subject	Taken
No.	Year	Semester	Faculty			Hours
1	2019 - 2020	Even Semester	Mr. ShrikantKhaire	TY B.Tech	Control Systems	36
				TY B.Tech	Illumination Engineering	14
2	2020 - 2021	Odd Semester	Mr. Abhishek Tonpe		Power System Operational Control	
				Final Year B.Tech		36
3	2020 - 2021	Even Semester	Mr. ShrikantKhaire	TY B.Tech	Control Systems	36
4	2021 - 2022	Odd Semester	Mr. Abhay Kale	TY B.Tech	Campus to Corporate	24
5	2021 - 2022	Even Semester	Mr. Abhay Kale	TY B.Tech	Campus to Corporate	28
6	2022 - 2023	Even Semester	Mr. Kenjale N.	TY B.Tech	Power Plant Engineering	28
7	2022 - 2023	Odd Semester	Mrs. Sunita S.	TY B.Tech	German Language	18
8	2022 - 2023	Odd Semester	Adv. Dixit Chandrakant	SY B.Tech	Basic Human Rights	22

CRITERION	FACILITIES AND TECHNICAL	80
06	SUPPORT	

6.1Adequateandwellequippedlaboratories, and technical manpower (30)

					TechnicalManpowersupport		
Sr. No	NameoftheL aboratory	No. ofstud entspe rsetup (Batc hSize)	NameoftheImportant/ Majorequipment	Weeklyutiliz ationonstatu s(all Thecoursesfo rwhichthe labisutilized	Name ofthetechnic alstaff	Designation	Qualificati on
1.	Power electronics and Electrical driveslaborat ory	15	 Single phase full controlled bridge converter trainer kit Three Phase controlled converter kit DC drive trainer Digital Storage oscilloscope 100 MHz Two channel Model 403 Sl.No. 061587 	8 Hr	Mr.Kirtikud aveK	Lab assistant	ITI Electrical
2.	Electrical machines (AC)laboratory	15	 Single phase transformer (Tapping on both side)230V/230V,2KVA 3 Phase Transformer (tapping on both side)440/440V, 1KVA Three phase induction motor 3 HP 415 V 1440rpm With control panel 	4Hr	Mr. Shaikh A.A	Lab Assistant	Diploma in Electrical

A. Adequate well-equipped laboratories to run all program-specific curriculum (20)

			4.Synchronous				
			motor,3HP,3phase				
			415V-DC shunt				
			Generator2.2kw,220V,1				
			500RPM with control				
			panel				
			5. 3 HP,230V,1500RPM				
			DC shunt motor coupled				
			to 3 phase /2KVA				
			415V/1500RPM/150HZ				
			Alternator with base and				
			coupling with control				
			panel				
			1. 3HP/230V/1551	411			
			RPM DC Shunt Motor	4Hr			
3.	Electrical	15	with Control panel		Mr. Shaikh A.A	Lab Assistant	Diploma in
	machines (DC)laboratory		2. 3HP/230 V/1500				Electrical
	(DC)hubbhubby		RPM DC shunt motor				
			coupled with each other				
			with base & coupling				
			with control panel				
			3. 3HP/230V/1500 RPM				
			DC series motor coupled				
			with each other with				
			base & coupling with				
			control panel				
			4. DC compound motor				
			3HP/230V 1500 RPM				
			with mechanical loading				
			arrangement with control				
			panel				
	'	1			1 1	1	1

			5. Transformer rectifier				
			unit input, 3 phase 415V				
			AC Supply(50A)				
			.ACER ASP4760 Core 2	12 Hr			
4.	Electrical		duo,				
	power system	15	2 GB DDR2 RAM, 500		Mr. Shaikh A.A	Lab Assistant	Diploma in
	and Simulation		GB HDD,				Electrical
	incontroly		Dell 17" Square LCD				
			Acer				
			Keyboard, Mouse, DVD				
			RW				
	Electrical and		1.Power factor meter				
	Electronics Measurements		(1.5 amp 250 V)				
5.	&Analog&digit	alog&digit 15 ectronics atory	2.Earth tester with		Mr.	Lab assistant	ITI
	al electronics		complete setup	4hr	Kirtikudave		Electrical
	laboratory		3.Insulation Testerwith		К		
			Accessories				
			5.LVDT trainer kit				
			1. RC,RL Circuit				
			Kit				
			2. Maximum power				
			transfer theorem,				
	Network		Norton's, Thevenins	4Hr	Mr.		
ſ	Theory	•	theorem kit		Kirtikudave K	Lab Assistant	ITI
6.	laboratory	20	3. Series resonance				Electrical
			(RLC) AND RLC				
			parallel resonance kit				

			1.IDMT Over-Current				
			Relay Trainer kit				
Switchge	Switchgear and	al 20	2.Directional Over-		Mr. Shaikh A.A	Lab Assistant	Diploma in
7	Basic Electrical		Current Relay Trainer kit	4hr			Electrical
	Engineering laboratory		3.Microprocessor Based				
			Over-Current Relay				
			Trainer kit				

Table. 6.1 Adequate and well equipped laboratories, and technical man power

6.2 Additional facilities created for improving the quality of learning experience in laboratories

Sr.No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	Internet Facility	Internet facility with Bandwidth 300 Mbps and Wi-Fi of 3 Mbps/User is provided.	Seminar/Mini- projects/Assignme nts/Self Learning	36 Hours/Week	Courses specified in Curriculum, to access Moodle,	PO5, PO8,PO10 & PO12 PSOs 1
2	Smart Class Room	Intelligent Interactive Panel& projector facility with the seating capacity of 32	 Smart class room are utilized for animation and video lectures. These digital teaching learning is more effective than traditional teaching 	36 Hours/Week	Courses specified in Curriculum like Power system, Analog & digital electronics etc.	PO5, PO8,PO10 PSO 1

3	NPTEL Local Chapter	Institute having NPTEL Local Chapter & server of NPTEL Content	 To keep student abreast with latest technology To provide national level platform to student 	36 Hours/Week	To grasp important concept of various subjects and modern tools used in Electrical engineering.	PO 1,PO2,PO3,PO5 PSO1
4	Digital Library	IEEE Xplore Access	 To keep student abreast with latest technology To provide national level platform to student 	36 Hours/Week	Project work	PO1, PO2, PO3, PO5, PO12 PSOs 1
5	Surveillanc e Cameras for exam rooms	IP cameras	• To enhance the security of the department	36 Hours/Week	Security purpose	PO5 PSOs 2
6.	Language Laboratory	Institute having separate language laboratory for communication subjects like English.	Effective teaching learning for said subject and effective English communication	36 Hours/Week	Communication Skills, Spoken Tutorial	PO5, PO8,PO10 & PO12 PSO 1

7.	Moodle Learning Manageme nt 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	36 Hours/Week	Courses specified in Curriculum	PO5, PO8,PO10 PSO 1
8	Koha automation for library facility	Institute having separate Koha library	To provide automated fast service to student like searching, checking book availability, borrowing of books etc	36 Hours/Week	Courses specified in Curriculum	PO1,PO2,PO3,P O5 PSO1
9	Departmen tal Library	Program Specific text books and reference books	To provide additional support for students	36 Hours/Week	Courses specified in Curriculum	PO1, PO2, PO3, PO5, PO12 PSO 1
10	Virtual Labs	Electrical Machine lab(), Power Electronics Lab() High Voltage Engineering Lab ()	To provide advanced facilities	36 Hours/Week	Courses specified in Curriculum	PO1, PO2, PO3, PO5, PO12 PSO 1

11	Central Computing Facility	Ethernet/WiFi	Facility to staff and students for enhancing Teaching	36 Hours/Week	Courses specified in Curriculum	PO5, PO8,PO10 & PO12 PSO 1
			Learning			

Table 6.2 Additional facilities created for improving the quality of learning experience in laboratories

6.3 Laboratories :Maintenance and overall ambiance(10)

Each laboratory maintains a dead stock register with details of all equipment's in laboratory. Onregular basis maintenance of laboratory is carried out by in-house maintenance engineer. One lab assistant is assigned for two labs.

6.3.1 MaintenanceandRecords

6.3.1.1 Maintenance:

- 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. Electrical fitting is checked in on regular basis by electrician.

- 4. As per the requirement, minor repairs are carried out by the lab assistant.
- 5. Any equipment which is found defective or out of calibration shall be immediately
- 6. withdrawn from services.
- 7. The fire extinguisher is available and mounted properly.
- 8. In case of maintenance of equipment and other facilities
 - i. Regular check-up of equipment is carried out.
 - ii. Breakdowns are registered in the laboratories.
 - iii. As per the requirement, minor repairs are carried out by the lab assistant.
 - iv. Maintenance of computers is taken care by IT and COMPUTER department.
 - v. Major repairs are done by authorized outsourced by following the procedure

of the institute

6.3.1.2 Records :

1) Laboratories with an appropriate maintenance record system to suit its particular

requirements.

2) Laboratories are retained on record all original observations, calculations

Andderiveddata, calibration record for an appropriate period preferably not

Lessthan 3 years.

- 3) Storage of data and records is readily available in soft copy as well as hard copy.
- 4) Records are maintained for each equipment/ instrument stating

the commissioningdate, capacity, accuracy, calibration etc.

5) Stock records for equipment and consumables are maintained in the departments.



Fig.6.3.1 Lab Maintenance Flow Chart

6.3.1.3:Ambience

- 1. Laboratory area is spacious and furnished.
- 2. All laboratories have sufficient natural light and good ventilation.
- 3. Labs are also equipped with notice boards, black boards
- 4. Dusting and cleaning is done on regular basis

S N	Maintenance /Record facility	Details	Purpose	Utilization	Available /lab	Responsible Person al	Ambiance
1	DeadStock	Aregister	To maintain	Lab	01	Lab In	Good
	Register	containing	inward	assistant,		charge/	and
		Detailsof	record of all	LabIn		Lab	Updated
		equipment,	equipment,	charge		Assistant	
		tools, facility,	tooling and				
		Andsupplier	facilitates in				
		with	a proper way				
		perspectives					
		Withdate,					
		time, purpose					
		and signature.					

6.3.2 Measurement Traceability and Calibration:

2	Logbook	A register	To maintain	All S.E.,	01	Lab	Good and
		hard copy	labutilization	T.E., B.E.		Assistant	updated
		containing	details	Students,			
		details of	systematically	Faculty,			
		user with	in the	Staff of			
		perspective	proper way	department			
		s withdate,	of recording.				
		time,	To get an				
		purpose	indication to				
		andsignatur	regulate				
		e.	maintenance of				
			the				
			equipment and				
			facilities				
			provided in				
			the lab				
3	Laboratory	Individual	To provide a	All S.E.,	01	Lab In	Good and
	Manual	hard copy	stepwise	T.E., B.E.		charge	updated
			experiment	Students,			
			procedure to	Lab			
			conduct	personnel			
			experiments	,			
			safely and a	Assigned			
			written format	faculty of			
			to	lab			
			make a				
			report of lab				
			experiment				

4	Laboratory	А	Experience	Lab	01	Lab Assistant	Good and
	preventive	regi	collected over	Assistant/			updated
	and	ster	a long period	Technical			
	breakdown	containing	to	staff and			
	register	details	utilize thelab	assigned			
			equipment	Lab In			
			properly and	charge.			
			neatly to				
			avoid any				
			hazards to				
			user and				
			condition of				
			the equipment.				
5	Laboratory	Timetables	To know the	All S.E.,	As per	Lab In	Good and
	time-table	of student	engagement of	T.E., B.E.	utilization	charge	updated
		batches of	the	Students,			
		all courses	students as	Faculty,			
		for which	well staff and	Staff of			
		the lab	technical	department			
		isutilized	manpower				
		along with	concerned to				
		thename	the lab sothe				
		and contact	floating of				
		no of	the lab				
		staffand	utilization can				
		technical	be				
		labassistant	managed				
		available.	time to time.				

6	Purchase	Photocopy/	To maintain	Lab	As per	Lab In-	Good and
	orders and	Xeroxof:	the records of	assistant,	condition	Charge/ Lab	updated
	bills	Purchase	purchase	Lab In		Assistant	
		ordersand	andbilling	charge			
		billing	for further				
		details of lab	contact and				
		equipment,	maintenance				
		tools,	aspects				
		facility,	_				
		maintenanc					
		e and					
		consumabl					
		e					
		materials, etc.					
7	Consumable	Hardcopy	To maintain	In-charge	01	In- charge	Good and
	material	and details	the records of	Faculty		Faculty	updated.
	record at	of	consumables				
		consumabl					
		e					
		materials					

Table. 6.3.2 Measurement Traceability and Calibration

A] Sample of Dead stock register

		All and	of the prophese of	SAN	ARTH	EDUCA DE	TIONAL AD STOCK	TRUST, SA	ATARA				
	olis	Turner	DAK	Description of	Rate	Quartity Purchased	Cine Cine	jighterer			L.A		66
	-	Die Mar & D	and Chemica in an article					Daniel Ritoria Man :	Indext No. & date	September of cash	Spotored	Springer	
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		20-01-	Sangliwadi	phone TIP	83.300	67	35293	AGE / 2428-3	41				
	-	2493	SANELI (ME)	protection	1		-	DRK-02(44)	3704		11-	-	A
	-		Pia 016016	a Neley kit				EE-36/01-	2-1-05-2003	BELWE	mul	to the	196-
	1		M- 09761 8652	Z with Sourt	e			01				Dr.V	las Pharande
_	1			unit with								Arres G	Annoipal Aui Cslep d Ingreen Situaryo Sataka
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Fig 6.3.2 .A. Sample Copy of Dead stock register

B] Logbook :-

H	Date :- 313123	Endaly		11
	Time :- 9.30 to 11.30.	Tricary	Searce un	
	Dept :- Electrical Engg	· TZ.	DATE	
P	Sub: - CSE		1	
1				
Sr. No.	Student Mame Date	Pc. No.	PRN No.	sign-
1.	Powat Snehal Sunil 3/03/2023	22	3016 M	tavat :
2.	Tejas Vitthal Shilework 03/03/2023	4	3017 1	fore
3.	Bhise vaishnavi Rajendra 03/03/2013	5	3019 M	Veries
4	Vorsha Joti ranskumbar 3/3/2023	7	BODO M	Narsha.
5 -	Vivek Santosh Nikam 03/03/2023	8	3021 M	(a) i learo
6	Yashraj Keshav Bodake 03/03/2023	2	3022 M	Vandara
7.	Tanveer Tranceb survey 03/03/2023	10	3510 M	JKH
8.	Robit Anil Ghorpade 03/03/2023	15	35.13 m	Chole
वि	Sahil Vikas Randive 03/03/2023	12	3507 M	S.V. Riceg
151	Kunal Tulshidas Passar 03/03/2023	13	3516 M	K.T. Augel
IJ	Kshidija Satish Shingate 03/03/ 2023	14	3503 m	thingate.
12]	Tejas chandrooken + Indalkor 03/03/2023	15	3018 M	Elpdacky :-
13)	Jadhar Prajakta Vishwara 0810312093	16	M 6026	Hadhen
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	ancerge			-
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	of impose	- feedback	Systa	171
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	a fixed and a upped	feedback	system	
	0 11051 00000 0111	1	00	



C] Sample Lab Manual



Fig 6.3.2 .C. Sample Lab Manual

D] SampleLabTimeTable:



Fig 6.3.2 .D. Lab Time Table

E] Sample purchase orders and bills-

	Approved by AICTE, New Deith, Recognised by GOW DcBabasaheb Anbedkar Technological U Website:- www.agon	Iniversity (BATU). I edu.in	onere.	Poly Code : DTE DN-4545 Poly MSBTE-1617
Ref	10: AGCE/ EIE/2023/267			Date: 12/4/2023
	Purcha	se Order		
To				
5.0	3.P instruments,			
Sa	ngliwadi,sangli, Maharashtra-416416			
M	ob: 8668449210			
	Subject: Purchase order for	Switch Gear	nd Protection I	.ab.
	Subject: Purchase or der tor	Junca oran .		
Re	spected Sir/Madam,			And the state of the state
	As per the above subject we need some instruments for	or Switch Gear a	nd Protection Lab, 1	to that we are placing this
010	der for the following list of material required for lab.	Guanting	Purchase	Cost
Sr.No.	List of Materials	classing	Cost	64 0001
1	Electromechanical Type Over Voltage Relay With Source Unit 3ff* 2ft. Panel With All Accesses.	1	64,000	64,000/-
2	Three Phase T/F Protection Differential Relay Kit With Source Unit, With 3 Phase Transformer 3kva, 3ft * 2ft. Panel With Ali Accesses.	3	98,000	98,000/-
3	Relay Test Kit With Source Unit. Fuse, HRC Fuse, Ekb, Mocb Test Set. 3ft * 2ft. Panel With All Accesses.	1	69,000	69,000/-
-	Total			2,31,000
	Discount (15%)			-34650
	Total Amount			196350
	So, kindly fulfil the same as earliest.	10.00		
Ter	rms & Conditions:			
	1. Payment terms are as per the discussion with the	secretary.		
	2. Transportation is free. 3. No other installation & training or demonstration	charges.		
	4. All legal terms subjected to satara jurisdiction.	0		
	1.1. 1.68	(1)		aa.
-	Johnald Broot I	44		20.
-	o medange nood Pi	in Corthan	×	cretory

Fig.a.

S	SATARA	PO R. No	AGCE/ELE/20	20.05.2023. 23/267.
Sr. No.	Name of Materials.	Qty.	Cost	Amount
1.	Electromechanical Type Over Voltage Relay With Source Unit	1No.	54,400-00	54,400-00
2.	Three Phase T/F Protection Differential Relay Kit With Source Unit. With 3 Phase Transformer 3kya.	1No.	83,300-00	83,300-00
3.	Relay Test Kit With Source Unit. Fuse, HRC Fuse, Elcb, Mccb Test Set	1No.	58,650-00	58,650-00
			TOTAL SGST @09%	1,96,350-00 +17,671-00
	CONTRACTOR ACTION		CGST @ 09%	+17,671-00
		тот	AL AMOUNT	2,31,692-00
Rs I/v the of	we here by certify that my/our registration certificate under e GST ACT 2017 is in force on the data on which the sales goods specified in this tax invoice in made by me/us.	Fo Juni	T: SO INSERT	Detures)

Fig.b.




Fig.d.



Fig. e.

Circ	<u>ui</u> t '	Diagram :								
	Curr	ent Injection kit	Voltage Relay							
Input -	1 + 		OR 3 Potential							
	1 L	intert	3 Trip							
Fr Fo F	Fig: Static Over voltage relay Tabular <u>Column</u> Plug setting multiplier = 193.									
	ST. No	Voltge given	Time required.							
	1>	160	16.2							
-	2)	170	10.2							
-	3>	081	7 · 4							
	43	190	5.9							
	5)	200	5.0.							







Fig.g.



Fig 6.3.2 .E .a,b,c,d,f,g Sample purchase orders, bills and report.

F] Sample consumable material record of department level:

St.	Bill No. & Dal	Details of the supplier	Description of	Rate	Quantity Purchased	Cost (including taxms)	Distribution Defails	Indent No & Date	Signature of Lab Assistant	Signature of Lith Incharge	Signature el HOD	Remarks
No.			larter and	-			ASWA Lab					
01	166	Hede Elephonic	Baninally	SDF	06	300/-	ww-lic gry	(a 1)		Porre	Ford	
_	31. 7.17	Contraction of Contraction							aller	He	of Statistical B	nginer de
-		·								SA	InitA, Panmalew	adi (Vary
-+	1.71	Hada dechars									1000-	
4	441	Side	Bonana Prube	40	06	240	BEELAGUNITE		MUL	Hep	OF EXCENTION ST	Citra Citra
+	11417	7,814	Rithindes						0	SAL	ARA, Panmalews	di (Virre
+											62	1
+		und a crachenis	Bernario Parte	0			1 .		with a	1	ead of Electrica	Engine
1	717	Hedre electric	with bith	501	06	300/-	NAS/ASOPTA		Why-	AN	SATADA PADOTE	anor t
21	10.18	Suice	side inpulse								SPIRINE, FORTING	
-	1122	a beam									1 1	to
1	-	COTA S				No. of Concession, Name				-	1 60	9
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Fig. 6.3.2.F. Sample consumable material record of department level

G] Laboratory preventive and breakdown register:-

		Lab N	Depostment of one ant Advanced	Et-elboc switchGe	cul Engg ear And Prot	Aace eet ml	Ponampleed ab (1000/w	104) Remode.
Dak	Rown	Lab Name	Nome of equipment)SP ~ 0, Eleof Priblem	Re	molial alle	ADJ+	ric	
17/8/20	7,500-154	Advancedswitchge Devitedra Lo	2) IDMIT OVY Current Keloy Troumertet Whi U) secondary correct injectmonit www	Remedu Erygi H	et done by Vs44 (4ne. J. usle	Katenderen	Read of Ele ARVIND GAVALL SATARA, Pa	College of Engineering College of ENGINEERING Immalewadi (Varye)
	- 5.54		10 microcontilestos overennest Relay transatest W.W					
2/11/19	sur loy	Advonced sint	Ager) Parel type daw pule switch with Indicate burnt &17-2	le Tejs n Otr M	dep Heet Br 1 - 2 Read. Studied Kunn	r Oslow	2 2th read of ARUNO GA SATAR	Filectrical Engineering VALLOULEGE OF ENGINEERING A, Panmalewadti (Varye)

Fig. 6.3.2.G. Sample consumable material record of department level

6.4 Project laboratories (05)

Department of electrical engineering has one separate dedicated project laboratory. The project laboratory offers the opportunity to gain valuable hands-on experience with adequate facilities and equipment.

Sr. No.	Name Of Lab	Name Of Equipment	Purpose
1	Project Lab (104)	Single Phase Transformer,	Hardware implementation,
		Voltmeter,	Analysis,
		Ammeter, wattmeter,	Measurement,
		Three Phase	Experimentation and
		Transformer, DC	Project work.
		Motor, PLC Kit	



Fig 6.4 Project demonstration by students

6.5 Safety measures in laboratories (10)

Sr. No	LaboratoryName	SafetyMeasures
110		
1	Power electronics and electrical drives laboratory	1) Safety instructions are placed in lab notice board.
-		2) All Laboratory Equipment are maintained along with
	Electrical machine	electrical ground earthing.
2	(AC) laboratory	3) The fire extinguishers are installed near labs, staff and
3	Electrical Machine (DC) Laboratory	 students are trained to use them in case of an emergend 4) Electrical Wires are protected byMCB,RCBO,fuses and electrical fitting checking is carried by technician periodically.
4	Electrical Power System Laboratory	5) For emergency of electrical issue MCB's are mounted in all power lines. Separate earthling for lab has been
5	Measurement &Instrument Laboratory	6) All laboratories are fully ventilated along with full light
6	Analog digital electronics And network analysis synthesis laboratory	 7) Each laboratory maintains student entry register. 8) One Teaching faculty and lab assistant are in-charge of the overall maintenance of lab.

Table. 6.5 .Safety measures in laboratories

CRITERION	CONTINUOUS IMPROVEMENT	50
07		

PO/PSO	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2
Target	2.43	2.48	2.15	2.28	2.18	2.12	2.10	2.13	2.00	2.08	2.35	1.84	1.97	1.85
Attainment	2.79	2.77	2.80	2.79	2.73	2.80	2.79	2.74	2.80	2.77	2.88	2.82	2.76	2.74

7.1 Actions taken based on the results of evaluation of each of the POs & PSOs(20)Pos and PSOs Attainment Levels and Actions for improvement: 2021-22



Figure.7.1a PO Target vs. PSO Attainment for year 2021-22

PO's	Target Level	Attainment Level	Observations
PO1: Eng engineer	ineering know ing problems	ledge: Apply know	vledge of mathematics, science and engineering to solve
PO1	2.43	2.79	 Target is achieved due to engineering knowledge and solving engineering problems.

Action 1: Separate class is arranged for all lateral entry direct second year admitted

students to cover entire syllabus from starting with prerequisites.

Action 2: Department has been taken effort for slow and advance learner.

Action 3: More prominence given on assignment solving, discussed case studies and puzzles.

PO2: Problem analysis: Identify, formulate and analyze engineering problems

PO2	2.48	2.77	• Target achieved first and second year students secure problem solving and analyzing skills through various basic courses like Engineering Mathematics-III, Numerical Methods, programming, Network Analysis and Synthesis & Power System.
-----	------	------	---

Action 1: To solve different level of numerical assignments to identify, formulate and analyze engineering problems students need to do.

Action 2: For slow learners remedial coaching class is provided for subject like Network Analysis & Mathematics-III.

Action3: Effort has been made for development of mini projects.

PO3: Design/development of solutions: Design and develop solution for systems or processes that meet the specified needs for health & safety, cultural, societal and environmental considerations

PO3	2.15	2.80	• Target achieved, Some of courses like Projects,
			Audit Courses (Engineering Economics, Basic
			Human Rights & Value Education, Human Rights
			and Legislative Procedures)

Action 1: Students are involved in various social events organized by electrical engineering department like vidyut suraksha abhiyan, tree plantation, no vehicle day, blood donation camp, swachta abhiyan

Action 2: NSS organizes regularly various events such as PUC camp, Women's Safety measure workshop, traffic awareness program. Geo tagging. etc.

Action 3: Road safety awareness events organized by college with the in association RTO.

PO4: Conduct investigations of problems: Design and Conduct experiments as well as to analyze and interpret data to provide valid conclusions

PO4	2.28	2.79	• Target achieved, university curriculum directly less
			contributing to attainment of this PO.
			 Indirect attainment is achieved .

Action 1 : Students are exposed to practical problems through project based learning and industry sponsor projects.

Action 2: More attempt to do on planning and execution of internship has been carried out.

PO5: Modern tool usage: Use the techniques, skills and modern engineering tools necessary practice

PO5	2.18	2.73	• Target achieved, in most of subjects use of open
			spoken tutorial, virtual labs, MOOC courses like
			NPTEL, Course etc.

Action 1: Department has been initiated for faculty members to focusing on utilizing modern tools for effective teaching which includes online expert/industrial talks, spoken tutorial, virtual labs, NPTEL, Course etc.

Action 2: Focuses on availability of modern equipment & tools like availability smart class room and projectors in classroom, industrial training, and industry supported labs the department will take care helped to achieved target.

PO6: The engineer and society: Apply the broad education necessary to understand the impact of engineering solutions in a global, economic and societal context

PO6	2.12	2.80	• Target achieved, it is observed that adding of responsibilities towards solving societal and health
			issues needs to be focused.

Action 1: Safety concerns and social aspects, open elective courses (Introduction to Non-Conventional energy sources & Electrical Mobility) selected for understanding.

Action 2: Projects oriented on Industry (Electrical Power System/ Electrical Machine), Renewable energy sources (Solar), security and social issues were importance is given.

Action 3: Industry expert talks are arranged & Industry visit, Field training/industry

internship to make students aware about power sector problems related issues.

Action 4: Few students are going abroad for completing their post graduation (MS) in reputed universities in specific domain of their own choice.

PO7: Environment and sustainability: Understand the impact of engineering solutions in environmental contexts and demonstrate the need of sustainable development

PO7	2.10	2.79	• Target is achieved, environment and sustainability
			related various activities.

Action 1: Different initiatives such as tree plantation, no vehicle day, PUC camp organized.

Action 2: Students are encouraged to select their projects to reduce environmental impact by conserving energy, environmental friendly fluids / processes for sustainable Environment.

Action 3: Promoted paperless work through online submission to MOODLE and use of one sided paper for notices on notices board etc.

PO8: Eth	PO8: Ethics: Carry out professional and ethical responsibility						
PO8	2.13	2.74	 Target is achieved through good margin. University curriculum offered few courses like Value Education, Human Rights and Legislative Procedures. 				

Action 1: Individual GFM (Guardian Faculty Member) is appointed for batch of 20 students for personal issues address, for counseling, for teaching ethics.

Action 2: Different industry culture awareness programs are organized to make students aware about industrial ethics which includes session on paper publication, IPR, Plagiarism free content in seminar and project report.

Action 3: In institute student have proper uniform dress code which indirectly contribute to teach ethical values of uniformity.

PO9: Individual and Team work: Function effectively as an individual and as a member or leader in multidisciplinary activities

PO9	2.00	2.80	 Target is achieved; courses like seminar, project, business communication, project based learning courses involve individual and teamwork.

Action 1: Continues presentations are 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 origination and management.

Action 3: Students are participating in intercollegiate and university level sport competitions.

- Action 4: Projects pertaining to the latest problems were analyzed with frequent interactions from .industrial experts and to distribute the work within the team towards its execution of through academic projects.
- Action 5: Participation in various extra-curricular activities in other colleges and Promotion of various clubs and activities.

Action 6: Participation in Conferences/Seminars/Workshops/Symposiums.

PO10: Co	ommunicat	ion: Communi	cate effectively with engineering community and society at large
PO10	2.08	2.77	 Target is achieved, Skills of documentation, communication, presentation during project and seminar is satisfactory but due to rural background there is scope for improvement.
Action 1	: Student	participated i	n various online soft skill development courses offered by
	various M	OOC platform	ns like NPTEL, Course etc.
Action 2	: Differen	t cultural eve	nts, sports, social activities, project competition, industrial
	visits, Indu	ustrial training	g contributed in students overall development.
Action 3	: In acade	mic time tabl	e separate time slot allotted for soft skill improvement
	session. Sr	pecial couch i	s appointed for the same.
PO11: Pr carry out	oject mana projects ir	agement and find the multidisciplin	inance: Demonstrate engineering and management principles to ary environment, as a member/leader in a team
PO11	2.35	2.88	 Target is achieved; 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	: Electrica	l engineering	students participated in various competition project
	compet	itions and sec	cured prizes.
Action 2	: Electrica	l engineering	department is having MOUs with various industries.
	Numbe	rs of projects	are industry sponsored projects which helps student to
	learn pr	oject manage	ement and finance.
PO12: Li learning	felong lea	r ning: Re	ecognize the need for and an ability to engage in life-long
PO12	1.84	2.82	 Target is achieved, student have demonstrated their lifelong learning ability

Action1: Department Intimated to Students to do MOOC courses like NPTEL, Course Mandatory.

Action 2: Students participation in various activities like extracurricular, project

competition developed their lifelong learning ability.

PSO1 Demonstrate knowledge and hands-on experience with electrical machines, power/energy systems, power electronics, and automation problems.

PSO1	1.97	2.76	 Target is achieved, student have to undergo
			domain based learning such as electrical power
			system, electrical machine etc.

Action1: Guidance given to students and directed to apply knowledge of core Electrical Engineering subjects and recent modern technology in their projects.

Action2: Industry or Academic Expert's lecturers from industry are organized for various

subjects.

Action3: Weak students are supported through various activities like personal counseling, action plan as per there weakness, remedial classes, to solve questions of previous year's university papers.

Action4: Department proved different facilities to encourage bright students which involves advanced courses of NPTEL, Course.

PSO2 Develop the professionals and entrepreneurs in Renewable Energy system, electrical contracting and consultancy using modern tools and techniques.

PSO2	1.85	2.74	•	Target is achieved, enhanced exposure on
				concepts and techniques adopted in power
				plants and industries, courses such as
				renewable energy resources, electrical
				consultancy related activities, power system
				and integrated circuits through NPTEL

Action1: More emphasis is given on student's exposer to industry culture through industrial visit, internship, industry mentorship for project, industry expert's sessions

Action2: Created awareness among student about environmental and societal needs through activities included in open elective national social services, core subject basic human rights & Value Education, Human Rights and Legislative Procedures.

Action3: Students are guided to use latest technology like PLC, SCADA, AUTOCAD, IOT and use them in their projects by considering societal and environmental need.

Action4: Awareness is provided among faculty and students to involve consultancy related activities such as renewable energy resources, department need to take initiative towards energy audit for industry/ organization and also if possible to take any contract for residential wiring etc.

7.2 Academic audit and actions taken there of 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 before the commencement of new semester. Course files including session 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.
 - 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.
 - viii. Course Objectives and Outcomes
 - ix. Course outcome and 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



Figure 7.2.a Sample Invitation Letter for External Academic Audit

•	Dr. Babas Acad Format - II (aheb Ambedkar Tech lemic Audit of Engin To be filled individua	eering Colleges lly by Faculty Member)	Catara
	Centre/SubCentre:		District:	Satara
1	Name of the College and Address	Arvind Gavali Colle Varye, Sata	ge Of Engineering, Address: ra, Maharashtra 415015, Phor	Gat No. 247, Paninac ne: 02162 200 100
2	Name of the Faculty Member	Miss.Mali A B		
2	Name of the Subject taught during	Nelwork	Theory	
3	academic year	INCIW COM	1110-0	
4	Date of Joining in Degree College/Date of Joining in the present Institution	01-12-2021	Date of Retirement:	to time (Sug
S.No.	Activity	Status (Give Details, not just Yes/No)	Impression of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (poor) after Observation	by Academic Advis
		Curricular	Aspects	
5	Annual Curricular plan	DEATU & AGCE Ac Alloched.		
6	Curriculum enrichment / Value addition	Industrial visit at urmedi dam.	-	
7	Whether conducting Add on Courses	NPTCL entroll-	~	
8	Feedback from students	collected 4 fieled.		
-	I could not on other the	Teaching, Learning	and Evaluation	
9	Teaching Diary & Teaching Plan	Course Teaching plans considered	V	
10	Coverage of syllabus so far (%)	94 %		
11	Record of students attendance	Maintoined.		
12	Use of ICT - PPT & Audio-video Aids	107 Use is mantained in dep.		
13	Record of students assignments	Assignment consider on		
14	Record of field trips	Ambesi of usmedidom		
15	Record of student seminars conducted	conducted.		
16	Record of academic competitions conducted if any (Quiz, Role play)	quiz conducted	~	
17	Other Student centric learning Methods	Lob visits.	-	
18	Record of Extension Lectures given	Eneral Trades of		
19	Record of invited lectures arranged	NI.		
20	Record of internal examinations and University Exams	CA-1 CA-2 4 Mid SAM EAUM DECOSCI.		
21	Pass percentage of University Exams / Semester in respective subject for the last three years.(paper wise)	70 %	\checkmark	
22	Record of remedial classes conducted for slow learners	Expert koure services.		
		Research, Extension	and consultancy	
23	Record of Research work (,Paper publication, Book publication, Articles)		_	
24	Record of Student Projects	Guided mini poche		
25	Record of seminars / workshops attended / organized /Papers	1 wookshop is ottened .	/	

S.No.	Activity	Status (Give Details, not just Yes/No)	Impression of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (poor) after Observation	Recommendation/Suggestions by Academic Advisors
27	Record of MoUs, if any	-		
28	Record of Consultancy work			
		Infrastructure and le	arning Resources	
29	Utilization of Departmental Library	Yes	~	
30	Availability of CDs, Videos			
31	Virtual labs / Open Educational Resources (OERs)	-		
	Development of any educational resource	_		
		Student support a	nd progression	
32	Record of Activities conducted to contribute to the students' career opportunities	Yes	~	
33	Mentoring / Counselling to students for curricular and co-curricular activities	Yes	C	
34	Newspaper clippings or other materials as additional resource	—	-	
	Any Student team project for Technology Development	_	~	
		Governance and	Leadership	
35	Record of additional administrative responsibilities performed			
36	Record of innovative practices		-	
37	Any outstanding contribution			
38	Whether above(related activities)entered in into Departmental Activities Register	_		
39	Maintenance of Departmental Activities Register	Yes	~	
40	Check Departmental Documentation (should be available with 1/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	Yes		\bigcirc
	Signature of the Faculty member	Abrah	Fen	Signature of the Principal
	Note: the Format is to be filled by all the faculty and certified by the Principal and submitted to the Academic Audit Team.		Academics	

Figure 7.2.b Sample Audited Course File Record.

Page 1 of 1

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 through out the Institution
- iii. Areas for improvement are identified and fulfilled

Program Title: Engineering Degree Level: Undergranduate Academic Audit Status: First Academic AuditScool Adata Burle Level: Undergranduate Academic Audit Status: First Academic AuditScool Degree Level: Undergranduate Academic Audit Status: First Academic AuditScool Descent Colspan= Files as per the Met/first And RESOURCES 1 Lexent Descent Resource Files as per the Met/first And RESOURCES 1 Lexent Descent Resource Files as per the Met/first And RESOURCES 1 A first Academic Aduit as an per per arefit Academic Aduit as an any 70 1 Aduet of the Colspan="2">Resource of the set and the set of t	Ins	titution/University Department: Arvind Gavali College of En	gineering	, Satara
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4.7 The students are challenged enough to use their knowledge Met	4.	process from resources outside the lestinute	Met	62
4.7 The students are chanenged enough to use then knowledge Met	-	The students are challenged enough to use their browledge	Mat	
CPARIVAL CO	4.	creatively	Met	60

	QUALITY ASSURANCE		
5.1	There is an existing process in the Institute to understand the	Met	
	parameters of quality of teaching and learning processes		06
5.2	There is an initiative to understand the parameters of quality	Met	70
	of teaching and learning processes, if not existing.		70
5.3	There is commitment to making continuous quality	Met	70
	improvements in the program a top priority		12
5.4	The performance of students in Internal Assessment and	Met	79
	University Examinations is comparable.		70
5.5	There is sufficient feedback obtained from stakeholders in	Met	74
	development of academic processes in the College.		7.4
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		
6	OVERALL ASSESSMENT		
6.1	The Academic Audit process was Faculty driven.	Met	80
62	The Academic Audit presses (salf study and visit) included	Mot	
0.4	descriptions of the process (self-study and visit) included	Met	00
	five focal areas		80
6.2	The Audit resulted in a readid description of such as a second	Mot	
0.5	The Audit resulted in a candid description of weaknesses in	Met	80
6.4	There is an and the reaches of the feasible merchants.	Mat	
0.4	completing the academic audit of this preserver	Met	75
6.5	The Academic Audit process included involvement of and	Mot	
0.5	inputs from stakeholder groups identified by the program's	Met	QC
	faculty members		00
7	FOLLOW TIP OF PREVIOUS AUDIT		
7.1	An action plan was developed as a result of the previous	Met	Var
.1	Academic Audit	Met	163
72	There is documented evidence that recommendations made by	Met	Ver
1.4	the provious Academic Audit Team have been considered and	met	103
	when forsible and appropriate implemented and tracked		
7.2	There is documented avidence that the program has been	Met	Ver
1.5	implemented and tracked the progress of and use of results	Mee	Tes
	from improvement initiatives cited by the faculty its calf study		
8	SUPPOPT		
9.1	The program regularly evaluates its library equipment and	Met	
0.1	facilities encouraging necessary improvements within the	Met	74
	context of overall college resources		1.4
8.2	The program's operating budget is consistent with the needs of	Met	
0.4	the program	MCL	76
0.2	The program has a history of appalment rates sufficient to	Mat	
0.5	rue program has a mistory of emoment rates sumclent to	Met	78
2.4	The program has a history of meduation rate sufficient to	Mat	
0.4	rue program has a history of graduation rate sufficient to	Met	72
	Sustain the quality of the program.	Mat	-
5.5	The program has a history of placement rate sufficient to	Met	67
0.7	sustain righ quanty of program outcome.	Mat	
5.6	The Program has a history of generating support from	Met	69
-	industries and alumni to sustain itself.		1
Sign	atures of Academic Advisors		1
1	. Dr. Uday A. Dabade,		
	Professor,		
	Walchand College of Engineering Sangli		
	Walchand conege of Engliteering, Sangli		
2	. Dr. Komthekar Wadnav Bhaichandra,		
	Retired Professor,		
	Karad Government College, Karad	1. and	
		111	
		I pace	

Figure 7.2.c Sample Academic Audit Summary Sheet.



Fig 7.2.d Academic Audit 2021-22 Committee interaction and document verification is being carried out.



Fig 7.2.e Academic Audit 2021-22 Committee visit to the laboratory and the experiments are demonstrated by students to the committee

7.4 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, TOFEL 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.

Placement details for academic year 2019-20 to 2021-22 as shown in Table7.3a

Table7.3a Data for Placeme	ents
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Items	CAY (2021-22)	CAYm1 (2020-21)	CAYm2 (2019-20)
No.of final year students(N)	61	56	28
No.of students placed(x)	57	46	23
% Placement	93.44	82.14	82.14



Fig.7.3a Placement data analysis

Progran	ns Name and Assessment Ye	ar (2021-22)	T	1
S.No.	Name of the student placed	Enrollment no.	Name of the Employer	Appointm ent letter reference no. with date
1	1965451293021	SHINDE ROHIT KRUSHNA	T.A ENGINEERING	TPC/1293/2022 /021
2	51654520181129310056	RAO ARCHANA RAVIKUMAR	WIPRO TECHNOLOGIES	TPC/1293/2022 /005
3	1965451293056	AGAWANE APARNA SHRIKANT	TATA CUMMINS PVT LTD	TPC/1293/2022 /056
4	1965451293042	PINGALE SOMESHWAR ANKUSH	MAHINDRA INTEGRATED BUSINESS SOLUTIONS PVT LTD	TPC/1293/2022 /042
5	1965451293054	JAMDADE SHUBHAM RAJENDRA	AG ELECTRO SERVISES	TPC/1293/2022 /054
6	51654520181129310067	KOMAL RAJARAM MONDE	CHEDDHA ELECTRICALS AND ELECTRONICS PVT LTD, SHIRVAL	TPC/1293/2022 /10067
7	1965451293014	KOMAL BALKRISHNA DEVKAR	TVS LUCCAS PVT LTD	TPC/1293/2022 /014
8	1965451293055	PAWAR MAYURI MACHHINDRA	MUTHA ENGINEERING PVT LTD	TPC/1293/2022 /055
9	1965451293002	CHAVAN AMAR ANIL	M/S VISHAKHA ELECTRICALS AND ELECTRONICS	TPC/1293/2022 /002
10	51654520181129310058	KHATTE AVISHKAR BALKRISHNA	WIPRO	TPC/1293/2022 /005
11	1965451293001	GOSAVI ANITA EKNATH	COMPETITIVE CLASSES	TPC/1293/2022 /001
12	1965451293015	KENJALE SHUBHAM NANDKUMAR	FORCE MOTORS LIMITED	TPC/1293/2022 /015
13	1965451293026	NIKAM PRAJAKTA MANASING	PRARTHANA SERVICES /026	

14	1965451293016	SONAVANE SHUBHAM DHANANJAY	PRAVIN ELECTRICALS	TPC/1293/2022 /016
15	1965451293053	UTKARSH RAMACHANDRA CHAVAN	RAVI ELECTRICALS SATARA	TPC/1293/2022 /053
16	1965451293039	SHINDE ROHITKUMAR PRABHAKAR	WIPRO	TPC/1293/2022 /039
17	1965451293032	RAUT AMRUTA DADASO	TVS LUCCAS PVT LTD, PUNE	TPC/1293/2022 /032
18	1965451293003	KADAM ANUP SANJAY	MAHAGENCO	TPC/1293/2022 /003
19	1965451293019	CHALKE SAURABH RAVINDRA	UL SYSTEM AND CONTROLS INDIA PVT.LTD	TPC/1293/2022 /019
20	1965451293033	PATIL PRATIK SHAMRAO	QSPIDER PVT. LTD	TPC/1293/2022 /033
21	1965451293006	KAMBLE SAGAR CHANDRAKANT	ACCURATE INDUSTRIAL CONTROLS PVT LTD	TPC/1293/2022 /006
22	1965451293011	GAIKWAD POOJA VIKRANT	REC (RURAL ELECTRIFICATION CORP,PVT,LTD)	TPC/1293/2022 /011
23	51654520181129310065	THORAT SHRADDHA VIJAYSINH	CHEDDHA ELECTRICALS AND ELECTRONICS PVT LTD, SHIRVAL	TPC/1293/2022 /006
24	1965451293004	JADHAV KAJAL SATISH	TATA MOTORS LTD.	TPC/1293/2022 /004
25	1965451293036	ABA BALU THORAT	MINDA CORPORATION PUNE	TPC/1293/2022 /036
26	51654520181129310059	BHOITE NILAM PRAKASH	PROFOUND EDUTECH	TPC/1293/2022 /056
27	1965451293009	KSHIRSAGAR RAVIKIRAN SHASHIKANT	RV LASHKAR ELECTRICAL & CONSULTANT	TPC/1293/2022 /009
28	1965451293029	KALE SHITAL CHANGDEV	QSPIDER PVT. LTD.	TPC/1293/2022 /029
29	1965451293037	JADHAV SHRIRAM BHANUDAS	CHHEDA ELECTRICALS & ELECTRONICS PVT. LTD.	TPC/1293/2022 /037
30	1965451293007	DHAIGUDE SANEE GULAB	PARESH PLAST INDIA	TPC/1293/2022 /007
31	1965451293051	PATIL KOMAL RANGRAO	TATA MOTORS LTD PUNE	TPC/1293/2022 /051

22		KALANGE POONAM		TDC/1202/2022	
32	1965451293005	ABASAHEB	TATA MOTORS LTD PUNE	/005	
22		GHADGE MAYURESH	PREPARING FOR	TPC/1293/2022	
55	1965451293013	PANDURANG	AIRFORCE AND INDIAN ARMY	/013	
24		DESHMANE DIVYA		TPC/1202/2022	
34	1965451293030	SOMNATH		/030	
			Q SPIDERS	7030	
35	51654520181129310064	NIKAM PRATIK PRABHAKAR	INFOSYS PVT. LTD.	TPC/1293/2022	
			PUNE	/064	
36	1965451293050	PATIL POOJA NAMDEV		IPC/1293/2022	
27	4005454000040		PUNE	/USU TDC/1202/2022	
57	1965451293040	JADHAV ASAVARI VIJAY		/040	
		SHIVANKAR SALONI			
38	1965451293025	SANTOSH	GALACTIC ELECTRIC	TPC/1293/2022	
	1000 101200020		PRIVATE LIMITED	/025	
20		MAHAMULKAR PRAJAKTA		TPC/1293/2022	
- 39	1965451293022	KALYAN	ATTRA INFOTECH PVT.	/022	
			LTD.	,	
40		SHINGATE SHITAL		TPC/1293/2022	
	1965451293027	HANMANT		/027	
			ΤΔΤΔ		
41	1965451293044	CHAVAN PRANITA	MOTORS(JAGUAR	TPC/1293/2022	
	1500 1512500 11	HANMANT	& LAND ROVER	/044	
)PVT. LTD. PUNE		
			TATA		
42			MOTORS(JAGUAR	TPC/1293/2022	
	1965451293057	YADAV SNEHAL ASHOK	& LAND ROVER	/057	
)PVT. LTD. PUNE	TDC/4202/2022	
43	51654520181129310085	NISHANT KIRAN TAWATE		1PC/1293/2022	
				/038	
44	51654520181120310053	DUSHVANT	INDRAJEET POWER	TPC/1293/2022	
	51054520181125510055	DOSITIANT	LINES	/053	
45	1965451293017	SHINDE NIKHIL SURYABHAN	FINOLEX J POWER	TPC/1293/2022	
			SYSTES LTD	/017	
16		PAWAR SAURABH		TPC/1293/2022	
40	1965451293031	NARAYAN		/031	
			TECHNOARTZ		
47	1965451293020	PATIL SHAHAJI DINKAR		TPC/1293/2022	
				/020	
48	1065451202050			TPC/1293/2022	
	1202421222022		STANTEC LTD.	/059	

49	1965451293018	SHELAR AADITYA SURESH	CHAVARE ENGINEERING PVT.LTD	TPC/1293/2022 /018
50	1965451293046	KADAM DIVYA VINODKUMAR	TATA CUMMINS Pvt. Ltd.	TPC/1293/2022 /046
51	1965451293010	NALAWADE RUTUJA RAJENDRA	TATA MOTORS LTD.	TPC/1293/2022 /010
52	2065451293006	MANE PRASHANT CHANDRAKANT	KHODSHI POWER PVT.LTD. Karad	TPC/1293/2022 /006
53	51654520181129310066	PATIL SHUBHAM MOHAN	SAGITEC SOLUTION PVT. LTD	TPC/1293/2022 /066
54	51654520181129310068	CHAVAN AAKANKSHA JAYWANT	ATOS PVT. LTD	TPC/1293/2022 /068
55	51654520181129310009	KUMBHAR KIRAN SANJAY	M.S.E.D.C.L	TPC/1293/2022 /009
56	1965451293028	PATANE RUTURAJ ANANDA	DEEPTI ELECTRICAL ENGINEERING WORKS	TPC/1293/2022 /028
57	51654520181129310081	JAMDADE SHUBHAM RANGRAO	SHAMBHURAJ ELECTRICAL PVT LTD	TPC/1293/2022 /081

S.No.	Enrollment No.	Name of the	Name of	Appointment letter
		student placed	the	reference no. with date
			Employer	
1	516545201711293100 02	DHALE HARDIKA HEMANT	CEM ELECTROME CH PVT.LTD	TPC/1293/2021/002/19- 11-21
2	516545201711293100 03	GAIKWAD ANIKET RAJU	HONEYWEL L	TPC/1293/2021/003/07- 01-21
3	516545201711293100 04	KUMBHAR MEGHA SUNIL	ABHINAV EDUCATION SOCIETY'S COLLEGE OF ENGINEERIN G, WADWADI	TPC/1293/2021/004/14- 11-20
4	516545201711293000 05'	DEDE PRADIP ANKUSH	PRICOL LMT, PLANT 5	TPC/1293/2021/005/27-9- 21
5	516545201711293100 06	CHAITANYA SUNIL THIGALE	SAITRONIX PVT LTD SATARA	TPC/1293/2021/006/7-11- 21
6	516545201711293100 07	AKHILESH SUBHASH JAMBHALE	TATA CONSULTAN CY SERVICES LIMITED (TCSL).	Ref: TCSL/DT20219030479/Luc know Date: 19-02-2022
7	516545201711293100 08	NIKITA MADHAV PIMPALKAR	BYJUS	TPC/1293/2021/008/19- 11-21
8	516545201711293100 09	KADAM TEJASHRI SANJAY	SAITRONIX PVT LTD SATARA	TPC/1293/2021/008/24- 01-21
9	516545201711293100 10	ASMITA ARVIND PATIL	SAITRONIX PVT LTD SATARA	TPC/1293/2021/010/26- 08-21
10	516545201711293100 11	SANDESH BABASAHEB WADKAR	AJINKAY ELECTRO SYSTEM SATARA	TPC/1293/2021/011/16- 12-21
11	516545201711293100 12	SHINDE ROHINI HANAMANT	SAITRONIX PVT LTD SATARA	TPC/1293/2021/012/27- 08-221
12	516545201711293100 14	SHINDE PRATIMA DATTATRAY	CEM ELECTROME CH PVT.LTD	TPC/1293/2021/014/20- 08-21

Table7.3.2 List of Companies in which students placed in 2020-21

13	PRN:51654520181129 310016	BAGAL POONAM ANANDRAO	RAVI ELECTRICAL S, SATARA	TPC/1293/2021/016/25- 09-21
14	PRN:51654520181129 310030	MALI RUTUJA SHANKAR	YAZAKI INDIA PVT.LTD	TPC/1293/2021/030/21- 10-21
15	PRN:51654520181129 310013	KULKARNI OMKAR RAJENDRA	GE INDIA INDUSTRIAL PVT LTD PUNE	TPC/1293/2021/013/26-8- 21
16	PRN:51654520181129 310020	DESHMUKH PRIYANKA BHANUDAS	RAVI ELECTRICAL S, SATARA	TPC/1293/2021/020/2— 7-21
17	516545201811293100 05	MAHESH ANANDA JADHAV	LEAR CORPORAR ATION	TPC/1293/2021/005/24-3- 21
18	PRN:51654520181129 310010	KUMBHARKAR VAIBHAV VILAS	GM FINANCE	TPC/1293/2021/010/10-9- 21
19	PRN:51654520181129 310011	CHOUGALE SHUBHANGI SANJAY	RAVI ELECTRICAL S, SATARA	TPC/1293/2021/011/15-9- 21
20	PRN:51654520181129 310035	SANKPAL NAMRATA NETAJI	TATA MOTORS	TPC/1293/2021/035/1-09- 21
21	PRN:51654520181129 310018	PAWAR SANCHITA NANASO	RAVI ELECTRICAL S, SATARA	TPC/1293/2021/018/20- 11-21
22	PRN:51654520181129 310049	CHAVAN GOURI ASHOK	MACHBBIZ MARKETERS PVT LTD	TPC/1293/2021/049/22- 12-21
23	PRN:51654520181129 310029	LAWAND AMRUTA SHIVAJI	SIDDHESHW AR ELECTRICAL S	TPC/1293/2021/029/9/9/ 21
24	PRN:51654520181129 310027	AISHWARYA SANJAY SALUNKHE	SIDDHESHW AR ELECTRICAL S	TPC/1293/2021/027/24/0 9/21
25	516545201811293100 40	GUJAR TEJAS SHARAD	AJNKAY ELECTRONIC S	TPC/1293/2021/040/17-9- 21
26	PRN:51654520181129 310019	PATIL SWARANJALI VITTHALRAO	YAZAKI INDIA PVT LTD	TPC/1293/2021/019/5-2- 21
27	PRN:51654520181129 310045	GARUD ASHISH ADHIKRAO	DATTASUM AN ELECTRICAL SERVICES	TPC/1293/2021/13/6/21
			AJINKYA	
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28		DHOTRE DILIP	ELECTRO	TPC/1293/2021/062/16-
	PRN:51654520181129	DNYANDEV	SYSTEM	10-21
	310062		SATARA	
29	PRN:51654520181129	JADHAV SHITAL	GROUPO	TPC/1293/2021/052/27-
	310052	SAMBHAJI	ANTOLIN	10-21
			AJINKYA	
30		POWAR SHIVRAJ	ELECTRO	TPC/1293/2021/002/17-
	PRN:51654520181129	SARJERAO	SYSTEM	11-21
	310002		SATARA	
31	PRN:51654520181129	TIKUDAVE AKSHAY	KSB LTD,	TPC/1293/2021/043/18/9
	310043	DHONDIRAM	SHIRWAL	-21
			AMURA	
			MARKETING	TDC /1202 /2021 /008 /21 0
32			TECHNOLO	1PC/1293/2021/008/21-9-
	PRN:51654520181129	VINAYAK	GIES PVT	21
	310008		LTD	
			GE INDIA	TDC /1202 /2021 /00F0 /18
33	PRN:51654520181129		INDUSTRIAL	1PC/1293/2021/0050/18-
	310050	MADHUKAR	PVT. LTD	08-21
			AJINKYA	
34			ELECTRO	TPC/1293/2021/006/20-
_	PRN:51654520181129		SYSTEM	12-21
	310006	HANMANT	SATARA	
35	PRN:51654520181129	PAWAR PRATIK	SUSTAINFOI	TPC/1293/2021/032/18-
	310032	BALASAHEB	ENERGY	02-21
36	PRN:51654520181129	SASANE	VIROCH	TPC/1293/2021/003/29-
	310003	RUSHIKESH ASHOK	ENGG	07-21
			INNOVATIV	
37		KAKADE RUSHIRAJ	E	TPC/1293/2021/036/18-
	516545201811293100	RAJIV	ENGINEERIN	11-21
	36		G SATARA	
			INNOVATIV	
38		GHADGE VIJAY	E	TPC/1293/2021/021/23-
	PRN:51654520181129	SANJAY	ENGINEERIN	08-21
	310021		G SATARA	
			DHOOT	TDC /1202 /2021 /062 /15
39	PRN:51654520181129		TRANSMISSI	10.21
	310063	MARUTI	ON PVT.TLD	10-21
			BPCL WAI	
40			LPG	TPC/1293/2021/004/01-
	PRN:51654520181129		PLANT,SATA	11-21
	310004		RA	
		PHADTARE VIKAS		TDC /1202 /2024 /054 /20
41	PRN:51654520181129	BALASO		04 21
	310051			04-21

			NAMO	
42		PAWAR KIRAN	NAMOKAR	TPC/1293/2021/038/12-
	PRN:51654520181129	VIJAY	ENGINEERIN	01-21
	310038		G PVT. LTD.	
			INNOVATIV	
43		JANGAM PRITEE	E	TPC/1293/2021/073/11-1-
	PRN:51654520181129	SANJAY	ENGINEERIN	22
	310073		G SATARA	
			INNOVATIV	
44		JADHAV ASHWINI	E	TPC/1293/2021/048/16-
	PRN:51654520181129	SATAPPA	ENGINEERIN	12-21
	310048		G SATARA	
			KOHINOOR	
45		SAKATE RAHUL	TECHNICAL	TPC/1293/2021/031/2-9-
	PRN:51654520181129	SIDDHARTH	INSTITUTE	21
	310031		PVT.LTD	
46	PRN:51654520181129	JADHAV KOMAL	SIGMA	TPC/1293/2021/041/05-
	310041	VILAS	ENGG	12-21

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.

		САҮ	CAY m1	CAYm2
ITE	(2022-23)	(2021-22)	(2020-21)	
National level	No. of			
entrance examination	students	4	0	4
(JEE)	admitted			
	Opening score/rank	35498	0	25837
	Closing score/rank	126004	0	90200
State/University	No. of		9	19
level examination	students	27		
/others(MH-CET) admitted				
Opening score/rank		87800	60669	39370
	Closing score/rank	118002	89638	86634

Table7.4a Quality of students admitted to the program

Name of entrance	No. of		14	24
examination for lateral	students	28		
entry (Direct Second	admitted	d		
Year: MSBTE Diploma	Opening score/rank	6144	51094	11579
Final Semester)	0144			
	Closing score/rank		68790	54577
Average CBSE/Any other	0	0	0	
students(Physics, c	chemistry, Maths)			

CRITERION	FIRST YEAR ACADEMICS	50
08		

Please provide First year faculty information considering load for the particular program

							Tea	ching load	l(%)		Date Of
Name of the faculty member	PANNo.	Qualif ication	Date of Receivi ng Highest Degree	Area of Speciali zation	Designati on	Date of joining	CAY (2022- 23)	CAY (2021- 22)	CAY (2020- 21)	Currentl y Associat ed (Yes /No)	(In case Currentl y Associat ed is 'No')
Ashwini Deepak Kasture	BTSPK 5524K	M.Sc	14-06- 2017	Mathem atics	Assistant Professor	15-06- 2012	100	100	100	Yes	
Pooja Ramchandra Bhosale	ERAPB 9485B	M.Sc, B.Ed	08-07- 2019	Mathem atics	Assistant Professor	01-07- 2019	100	100	100	Yes	
Vidya Atul Salunkhe	CJJPS9 748B	M.Sc	19-05- 1999	Mathem atics	Assistant Professor	01-08- 2019	100	100	100	Yes	
Ms.Swapnal i Shinde	PGTPS0 243D	M.Sc	30-08- 2021	Mathem atics	Assistant Professor	01-07- 2022	100	0	0	Yes	
Ms.Sonali S.More	EVMP4 519P	M.Sc	24/3/20 18	Mathem atics	Assiatant Prof.	2/7/2022	100	0	0	No	31/06/2 023
Madan Prabhakar Jagdale	BEGPJ8 774P	M.Sc	08-07- 2019	Mathem atics	Assistant Professor	01-07- 2019	0	100	100	No	31/05/2 022
Ruksar Rajmohama d Sayyad	IWNPS 7798C	M.Sc.	04-07- 2017	Mathem atics	Assistant Professor	01-08- 2020	0	0	100	Yes	
Pranita Dadaso Pol	DHZPP 7754R	M.Sc.	01-06- 2018	Chemist ry	Assistant Professor	15-07- 2019	0	100	100	Yes	
Komal Rajendra Nikam	BIZPN4 929H	M.Sc.	13-07- 2015	Chemist ry	Assistant Professor	01-06- 2019	0	100	100	Yes	
Namita Pratik Mahajan	ETRPB 8924A	M.Sc	06-06- 2019	Chemist ry	Assistant Professor	01-11- 2020	0	0	0	Yes	
Priya Yashwant Kuthe	HPUPK 3410K	B.E	21-08- 2017	Chemic al	Assistant Professor	12-10- 2021	100	100	0	Yes	
Mrs.Rohini Bhosale	ENPPB 2533D	M.Sc	30-07- 2017	Chemist ry	Assistant Professor	21-07- 2022	100	0	0	Yes	
Tejaswini Dnyaneshw ar Jadhav	BUIPJ1 243D	M.Sc	24-10- 2020	Physics	Assistant Professor	17-03- 2021	0	100	0	No	31/06/2 022
Kanchan Sanjay Mahamuni	EHFPM 5540B	M.Sc	24-10- 2020	Physics	Assistant Professor	17-03- 2021	100	100	0	No	31/06/2 023
AshwiniAn kush Babar	AQSPB 8546L	M.Sc	11-06- 2010	Physics	Assistant Professor	01-06- 2019	0	0	100	No	31/10/2 021
Dr. Nitin Ramchandra Jadhav	AGSPJ2 278D	M.A	07-03- 2020	ENGLI SH	Assistant Professor	02-07- 2020	100	100	100	Yes	
Nikita Sanjay Bhilare	FBDPB 7735Q	M.A SET	09-07- 2019	English	Assistant Professor	16-03- 2021	100	100	0	Yes	

Thoravi Rahul Yadav	BLVPM 6822M	MA	10-07- 2008	ENGLI SH	Assistant Professor	01-06- 2019	0	0	100	No	30-04- 2021
Aanand Sudhir Shivde	CCLPS 6118J	M.E.	30-09- 2014	Mechani cal	Assistant Professor	06-01- 2019	0	0	100	No	31-07- 2021
Kamlesh Kumawat	ENEPK 1812H	M.E.	20-10- 2016	Mechani cal	Assistant Prof.	03/07/201 7	0	0	100	No	31/3/20 21
Mr.Amol Ghorpade	BTDPG 5946C	M.E.	10/10/2 017	Mechani cal	Assistant Prof	1/10/21	100	100	0	No	2/5/202 3
Pratik Manohar Tambe	AXPPT 2681Q	M.E	31-07- 2017	Mechani cal	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	AMEPG 4168K	M.E.	22/02/2 011	CSE	Assistant Professor	1/11/2020	15	0	0	Yes	
Suraj Shivaji Shinde	EKQPS 2010J M.E/M. Tech	M.E.	12-12- 2018	Civil	Assistant Professor	02-12- 2021	55	50	0	No	31/05/2 023
Abhay V.gujar	ABPPG 5152M	M.E.	26-06- 1994	Civil	Assistant Prof.	25/06/201 0	0	0	75	Yes	
Sapkal Rajendra	BNHPS 3023E	M.E.	25/06/2 013	Civil	Assistant Professor	1/06/2016	50	0	0	Yes	
Diksha Sanjay Jadhav	BGXPJ 6890B	M.Tec h	01-06- 2019	Civil	Assistant Professor	22-07- 2019	0	0	19	Yes	
Kolekar A.B.	GDSPK 1558L	M.Tec h	18/01/2 019	Civil	Assistant Professor	1/06/2019	0	0	86	No	1/05/20 21
Dr. Prashant Ramesh Bamane	BHXPB 5112K	PhD, M.E.	24-12- 2014	Civil	Associate Professor	01-09- 2021	81	72	0	Yes	
Vishal Sharad Hingmire	AEBPH 8372K	M.E.	23-11- 2013	E & TC	Assistant Professor	12-02- 2011	17	13	0	Yes	
Dr.Shinde Deepali	CBQPS 4461N	PhD	24/09/2 015	E & TC	Associate Professor	15/02/202 3	20	0	0	Yes	
Rahul Prakash Sakhare	FCOPS 8416K	MTec h	05-06- 2017	E & TC	Assistant Professor	07-01- 2019	0	0	29	Yes	

8.1 First Year Student-Faculty Ratio (FYSFR) (5)

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
	Average Assessmen	t	22.62
Assessment = (05×20)	4.42		

Assessment = (5×20) /Average FYSFR (Limited to Max. 5)

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 A	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	X/10	Total	Total	AP	AVE.
	% marks of		Successful	Appeared		API
	successful		students	Students		
	student			Students		
	X		У	Z		
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 (Ele)	Mean of the % marks of successful student X	X/10	Total Successful students y	Total Appeared Students Z	AP	AVE. API
CAY 2022-23	68	6.80	22	30	4.99	7.01
CAY 2021-22	80.5	8.05	8	8	8.05	7.01
CAYm12020-21	80	8	22	22	8	

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.
- 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

Academic year 2022-23

Course Code	Course	CO1	CO2	CO3	CO4
BTBS101	Engg. Mathematics-I	1.00	1.05	0.98	1.00
BTBS102	Engg.Physics	2.40	2.25	2.13	2.10
BTES203	Engg.Graphics	2.90	2.90	2.83	3.00
BTHM104	Communication Skill	2.10	2.20	2.07	2.20
BTES105	Energy and Environment Engg.	2.30	2.30	2.22	2.30
BTBS102L	Engineering Physics lab	2.00	2.00	2.60	2.00
BTES106	Basic Electrical and Electronics Engg. (Audit sub)	3.00	3.00	3.00	2.90
BTES108L	Engineering Mechanics Lab	2.40	2.40	2.40	2.40
BTES108L	Engineering Graphics Lab	2.00	2.60	2.00	2.60
BTHM109L	Communication Skills Lab	2.00	2.00	2.00	2.00
BTBS201	Engg. Mathematics-II	1.70	1.65	1.68	1.72
BTBS202	Engg.Chemistry	1.80	1.56	1.68	1.72
BTES203	Engg.Mechanics	2.40	2.40	2.35	2.30
BTES204	Computer Programing in C	1.70	1.62	1.70	1.30
BTES205	Workshop Practice	2.40	2.40	3.00	3.00
BTES206	Basic Civil and Mechanical Engineering(audit sub)	2.90	2.90	2.80	3.00
BTBS107L	Engineering Chemistry Lab	2.40	2.40	2.40	3.00
BTES210S	Seminar	2.40	2.40	2.40	2.40

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
M1	0.66	1	0.89	0.87		0.43					0.88	0.67		
CHEM	2.01	1.81	1.45			1.81	2.01		2.01			1.45		
MECHANICS	2.34	2.34	1.37	1.55	2.35		1.75		1.58	1.55	1.56	0.98	2.34	0.78
Comp Prog In C	1.87	1.56	1.87	1.25	1.56							1.25		
BEEE	1.93					1.45	1.28						0.48	
Engg Chem Lab	2.8	2.55	2.07			2.55	2.8		2.8			2.07		
Engg Mech Lab	1.42	1.61	1.62				1.35					1.83	1.02	0.81
Workshop	1.22				2.16				0.81	0.41			0.2	
M2	0.91	1.37	1.24	1.2		0.6					1.23	0.92		
Phy	1.61	1.61	1.61	2.42		2.42	2.42					1.61	0.81	
Graphics	2.84	2.84	1.66	1.9	2.82		2.14		1.89	1.89	1.92	1.18	2.84	0.95
Comm skills					0.76			1.11	1.82	2.04		1.5		
EEE	1.84		1.96		1.54		2.35		1.56	1.57		1.97	0.79	
BCME	0.7	1.37	0.91	0.91	0.6		0		0	1.25	0.92	0.94	1.4	0.92
Phy lab	1.39	1.39	1.39	2.08		2.08	2.08					1.39	0.69	
Gaphics lab	0.61	1.57	0.78			0.22	0		0.7	0.86		0.79	1.22	0.78
Comm skills lab					0.71			1.09	1.82	1.99		1.44		
Seminar						0.81			2.16	2.16		1.42	0.81	0.81

Core Science and Engineering CO-PO Attainment 2022-23 (Electrical Engineering)

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	1.26	1.14
AY 22- 23	1.61	1.75	1.45	1.52	1.56	1.37	1.65	1.10	1.56	1.53	1.3	1.34	1.15	0.84

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	1.61	Target is not attained
			• The students have a limited grasp of the core principles of engineering.
	L	I	

Action: 1. Greater emphasis will be placed on thoroughly comprehending the fundamentals of engineering.

PO 2 : Problem Analysis

PO 2	2.20	1.75	 Target is not attained The students are experiencing a deficiency in their literature review outcomes and in identifying engineering-related issues.

Action: 1The goal for the upcoming academic year is to exert efforts in order to attain the predefined target

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 1.45	 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.
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Action: 1. The same target will be considered for the next academic year.2. More focus will be given to practicals, experiments, projects to improve their skills and not merely learning.

PO 4 : Conduct Investigations	of Complex Problems
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PO 4	2.44	1.52	 Target is not attained Students are facing challenges when it comes to conducting investigations into complex problems. 			
Action	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

the use of latest technology.

PO 5	1.44	1.56	 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: 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, Moodle, PPTs, FTPs, and Digital Library.						

PO 6 : The Engineer and Society

PO 6	1.43	1.37	Target is not attained
			• The students faced challenges in
			adequately evaluating societal,
			health, safety, legal, and cultural
			concerns.

Action: 1. The aim for the upcoming academic year is to focus efforts on reaching the established goal.

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	1.65	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	r the upcoming academi	c year is to commit efforts towards

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	1.10	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	1.56	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	1.53	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 ach	ieve the same target i	n the upcoming academic year
2. Soft sl	cills programmes a	and expert lecture will	be arranged to highlight its
importan	ce and necessity in	n daily life and also th	he industry in particular.

PO 11 : Project Management and Finance

PO 11	2.00	1.3	Target is not attained - The students' knowledge of project management is inadequate.
Action: 1 2.Mini pr understar manager	. The same target rojects from the fin nding of the topic, ial skills will be in	will be considered for rst year itself will help cultivating team spiri cluded.	r the next academic year. o the students' to improve their t, problem-solving ability, and

PO 12 : Life-long Learning

PO 12	2.00	1.34	Target is not attained - Greater emphasis will be placed on instilling the concept of lifelong
			learning among the students.
Action	We will put in e	fforts to attain the ide	ntical target in the forthcoming

Action: 1. We will put in efforts to attain the identical target in the forthcoming academic year.

2. The students will be motivated to participate in co-curricular and extracurricular activities.

3. Expert lectures pertaining to various fields and career development programmes will be organized.

CRITERION	STUDENT SUPPORT SYSTEMS	80
09		

(5)

9.1 Mentoring system to help at individual level

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 soft-skills 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.



Fig. 9.1.a: GFM Diary (2022-23)

Fig. 9.1. b: GFM Diary

	Time	Table ,T	Ferm -							Time	T -1-1 - T		
Class :	nkr i i							HELL.		Time	Table , I	erm - I	
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Fig. 9.1 c: GFM Diary

9.2. Feedback analysis and reward/corrective measures taken, if any (10)

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:



Fig.9.2. a: Feedback Collection and analysis 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 / Google Form) 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

SAMARTH EDUCATIONAL TRUST ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA

DEPARTMENT OF ELECTRICAL ENGINEERING

Third Year Student Feedback

Month : 01 September To 19 December 2022 Total Responses : 24 Total Class Strength : 33 Feedback Percentage : 72.72%

	FACULTY – SUBJECT DISTRIBUTION						
SL. NO.	SUBJECTS	Abr.	Name of Faculty	Abr.			
01	Power System Analysis	PSA	Mr. Jivajee Bichkar	BJS			
02	Microprocessor and Microcontroller	MM	Mr. Praveen H. <u>Pawar</u>	PHP			
03	Power Electronics	PE	Mr. <u>Somesha Naik</u> S R	SRS			
04	HVDC	HVDC	Ms. <u>Ashlesha</u> Mali	MAB			
05	Embedded System	ES	Ms. <u>Parvathi Islavath</u>	PI			











































	OVERALL FEEDBACK ANALYSIS					
Sub.	Abr.	Appreciation	Suggestions for improvement			
PSA	BJS	 Arrangement of Industrial visit. Efforts on soft skill development of students. 	 Use ICT tools to clear the concept. Arrange some more Industrial visits. 			
ММ	PHP	 Mentoring of activities is good. Student centric activities to build teams. 	 Syllabus coverage need to be improved. Use of ICT Tools for teaching. 			
PE	SRS	 Encouragement to build project skills among students. Student supportive. 	 Mini project need to be added in PE subject. Show the power electronics components during lecture to the students physically for clearing the concept. 			
HVDC	MAB	 Guidance on competitive examinations. Encouragement for participation in Extra-curricular activities. 	 Teaching method need to be improved. Animated videos are expected while teaching. 			
ES	PI	 Student centric activities. More number of programs has been solved in ES subject. 	 Solve more programs in ES subject. Improve internal evaluation process. 			

Fig. 9.2.c: Feedback Analysis

		ACTION TAKEN PLAN BY	ACULTY		
		ACTION TO UN	Remark By HOD/AMC		
Sub.	Abr.	Action Plan for Improvement	· Cases the instruction to the dudes		
PSA	BJS	(1) I could use syldem subject. to teach power syldem subject. (2) I could arrange industrial visit. HV3C- Substation.	- Inductional Whit's takens		
MM	РНР	(1) I could control (Exitive courses. taking additional (Exitive courses. (2) I could use Ict - panel its show (3) I could use Ict - panel its show (4) I could use Ict - panel its show (4) I could use Ict - panel its show (5) I could use Ict - panel its	Gues the brother to Cabie - Given the brother to Cabie		
PE	SRS	1) I could make out doing mini-projection really interested in doing mini-projection a) I could show the MOSFET, I get a a) I could show the MOSFET, I get a sink the students, in the class while	Dhachical browledge of phachical browledge of phachical browledge of the		
Sub.	Abr.	Action Plan for Improvement	Dural D. Hopitalo		
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HVDC	МАВ	Is could learn the advanced teading method by could be returned to advance .	· G Even the matauc Born to subject to charge and ack		
ES	PI	3) I and show animated videos to clear HVDC-Subject) I could salve more number of micro controller programs to make the statents perfect.	Kumber programy and		
DDITIO	NAL (3)	-10,64-bits pch. Matlab 2014 a software how been metallet in 108 ld	1 - Power system & formularion Computer (ab & experies 1055 net features.		
AMC	heritantif	Brefe	VP		
ANIC		ARVIND GAVALI COLLEGE OF ENGINEERING SATARA, Panmalewadi (Varye)	PRINCIPAL Dr. Vilas Pharande		
		A	vind Constantial SATARA		

Fig. 9.2.d: Corrective Action Taken

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.

Corrective Measures:

Academic Year	Suggestion recognized through Feedback Process	Corrective actions taken
2022-23	Soft-skill Training and Technical Training Sessions	• Soft-skill and Technical training sessions organized for C++, Web Development, Python
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 IOT, AI, Web 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

(05)

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.



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	\mathbf{b}	Action Taken/outcomes
1	2022-23	Gym Facility	À	Institute Build open Gym facility for students Library Closing time is extended.
2	2021-22	Increase no. of buses for transportation for Rahimatpur, Medha Route.	A	Two New buses started for Rahimatpur route and Medha Route
		Increase Wi-Fi Internet Speed	A	Separate Network for Wi-Fi is established in order to receive higher frequency internet data.
3	2020-21	Store Services should be available after college hours or Saturday	A	Store Services are available on Saturday.
4	2019-20	Extend Library Timing	A A	Library Closing time is extended. Reading Room is available for 12 hours.
		Decide and fix the menu of Canteen.	A	Canteen Committee is formed.

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 News -papers 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.

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DELNET YouTube Channel / User Manual / Usage Your member	Statistics / Know your ILL-Book Status/ O Your Account / Contact DELNET / Log Out ship will be active for 334 days, needs renewal thereafter. Records last received on: 25/92/2022 Language Institution : Arvind Gavali College of Engineering
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Fig. 9.4.a: DELNET Web portal

(Funded by the MOE, Govt. of India)					
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	for succes	afully compl	eting the course		
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Fig. 9.4.b: 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.

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;
TableNo.9.5a Counseling for	Higher Studies:

Academic Year	Details	Speaker/Expert	Date
2022-23	Opportunities is IT Industry and Japan	Mr. Bipin Kadam (Thinksmart Soft, Tokyo, Japan)	03/05/2023
2022-23	Guidance for GRE TOEFL	Mr. Amol Kawade	30/03/2023
2022-23	Guidance on Management Studies	Dr. Pranjali Ankule (I.S.B. &M., Pune)	14/12/2022
2021-22	German Language Training Program for promoting Students for M.S. opportunities in Germany.	Mrs. Sunita Shaligram (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
2021-22	GATE Orientation Session	GATE Tutor, Pune	22/1/2022

Academic Year	Details	Speaker/Expert	Date
2020-21	Importance of Management Studies and Career Opportunities.	Mr. Omkar Tembe	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. Shubham Sasane (Elevitics, USA)	7/12/2020
2020-21	Prepare yourself for Abroad opportunities (M.S./ M.B.A) by	Mr. Shekhar Bidwai, 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 CET Entrance Orientation	K.B.P.I.M.S.R., Satara	11/03/2019
2018-19	GATE Orientation Program	R.I.T.,Sakharale	24/09/2018
2018-19	GATE Examination Awareness	Dr. Nayak B.M. (A.G.C.E., Satara)	21/09/2018

Pre-Placement Training Activities:

Following are the activities carried for Pre-placement training; TableNo.9.5.b Pre-Placement training activities

Academic Year	Details	Speaker/Expert	Date
2022-23	University Level Project Competition- Avishkar	Mr. S.V Khobragade	18-11-2022
2022-23	Guest lecture on Management Studies	Dr. Pranjali Ankule	14-12-2022
2022-23	Skill Based Training Program	Symboisis Skills and Professional University (SSPU)	6-01-2023
2022-23	Corporate Grooming	Mr. George	21-02-2023 to 23-02-2023
2022-23	Workshop on C,C++ and HTML	Mr. Swapnil Mapari (Disha Computers, Satara)	1/08/2023 To 14/08/2023

2022-23	Workshop on C,C++ and Java	Mr. Nilesh Sonawane	7/08/2023
	-	(Design Solution,	То
		karad)	11/08/2023
2022-23	Workshop on Auto-Cad	Mr. Mahesh Sathe	10/08/2023
	_	(Design Solution,	То
		karad)	18/08/2023
2022-23	Workshop on PCB Designing and	Mr. Pravin Mohite	7/08/2023
	Manufacturing	(Aprontech, Satara)	То
			18/08/2023
2022-23	Workshop on C,C++ and Python	Mrs. Pranali Nalawade	7/08/2023 To
		(Squirrel's Infotech)	18/08/2023
2022-23	Workshop on Automation in IOT	Tushar Inamdar	1/08/2023 To
	_	(Squarewave	31/08/2023
		Automation Pvt Ltd,	
		Satara)	
2022-23	Five days Hands-on Workshop on	Mr. Nikhil Kamble	14/06/2023 To
	Web Designing and Development	(Software Developer,	19/06/2023
	using HTML, CSS, PHP,	Code Culture, Pune)	
	JavaScript and MySQL		
2022-23	Five-days Workshop on	Mr. Abhiraj Ubale	22/05/2023 То
	Introduction to Python, AI and	(Software Developer,	26/05/2023
	ML	Code Culture, Pune)	
2022-23	Developing Softskills	Mr. Sourabh Bhosale	13/02/23 to
			17/02/2023
2022-23	Soft Skills for Emerging	Mr. Santosh Nalawade	10/4/2023 To
		(Trainer, Aspiring	13/04/2023
		Careers, Pune)	
2021-22	Internal Hackthon of Smart India	Dr. Mirajkar Gayatri	28-04-2022 to
	Hackthon 2022		29-04-2022
2021-22	AutoCAD Workshop	Nice Computer, Satara	18-04-2022 to
			18-06-2022
2021-22	MET Lab Workshop	Dr.Banoth Nayak	1 Week of june
2021-22	German Language Training	Mrs. Sunita Shaligram	1-03-2022 to 30-
	Program for promoting Students	(Trainer Chinmay	06-2022
	for M.S. opportunities in	Educational	
	Germany.	Consultancy, Pune	
2021-22	English Speaking Session	Mr. Kale A.A.	1/05/2022
		(A.G.C.E., Satara)	
2021 22			30/06/2022
2021-22	Workshop on CATTA, CEO,	Mr. Sathe Mahesh	1/03/2022
	Solid Works for Mechanical	(Design Solution,	10
2021 22	Engineering Students.	Pune)	31/05/2022
2021-22	Campus To Corporate	Ms. Bhilare N.S.	1/05/2022
	Activity	Mr. Kale A.A.	10
2021 22		(A.G.C.E., Satara)	30/06/2022
2021-22	Aptitude Sessions	wir. S.P.Patil	1/0 <i>3</i> /2022 To
		WIRS. A.D. Kasture	30/05/2022
		(A.G.C.E., Satara)	

2021-22	Group Discussion: Etiquettes and	Mr. Pathak P.A.	14/05/2022
	Practice	Mr. Kale A.A.	21/05/2022
		(A.G.C.E., Satara)	28/05/2022
2020-21	Development of Communication	Prof. Pramod	24/11/20
	Skills	Dastoorkar (Professor,	
		MIT Academy of	
		Engg, Pune)	
2020-21	Attitude Building for professional	Prof. Pramod	23/11/20
	Excellence	Bhadakawade	
		(Symbiosis	
		International	
		University Pune)	
2020-21	Electrical Hands -on training	Workshop	1 week on
	System		july2021
2020-21	Conducted guest lecture on How	Online Guest Lecture	5th December
	to Crack GATE Examination		2020
2020-21	Conducted guest lecture on Civil	Online Guest Lecture	5th Nov 2020
	Services as a Career choice		
2020-21	Conducted guest lecture on	Online Guest Lecture	9 th May 2021
	Career in Software Testing,		
	Prerequisites		
2019-20	Yugam – Four Week Training	Workshop	29-7-2020 to 24-
	Program on PCB Design		8-2020
2019-20	Conducted alumni guest lecture	Guest Lecture	23 August 2019
	on VMC and HMC machine		
	working.		
2019-20	Conducted alumni guest lecture	Guest Lecture	2019
	on M-G set and generator		
	maintenance		
2019-20	Conducted guest lecture on PCB	Guest Lecture	6 February 2020
	design & home automation		
	products		
2019-20	Yugam – Four Week Training	1)Mr. Nikhil Korade	29/7/2020
	Program on Web Designing	(SplendorNet	То
		1 echnologies, Pune)	4/8/2020
		(IA Solutions)	
		3) Mr. Shailesh Wagle	
		(KPIT Hinjewadi)	
		4) Mr. Danish Shaikh	
		(PHP & Java	
		Programmer)	
		5) Prof. Mr. Suhas	
		Chavan (Asst Professor,	
		Sinhgad College Pune.)	
		6) Mr. Koakhande S.A.	
		(neisinne Pvt Ltd.) 7) Mr. Vikas Pomana	
		(CEO Utriva Pvt I td)	

2010.20			20/7/2020
2019-20	Yugam – Four Week Training	I)Mrs.Kirti Wanjale	29/1/2020
	Program on Internet of Things.	(VIIT,Pune)	То
			4/8/2020
		2)Mrs.Varsha Patil	
		(Lembhe)	
		(JSPM, Hadapsar)	
		3)Mr.Pravin P. Mote	
		(ΤΑΤΑ	
		Communication Pune)	
		communicatios, rune)	
		1) Mr. Ashish Kalamba	
		4) MIT. ASIIISII Kalaliide	
		(Modelcam	
		Technologies Pvt. Ltd,	
		Pune)	
		5)Mr.Nilesh Bhandare	
		(Sloki Technologies Plt	
		Ltd, Bangalore)	
		_	
		6)Mr.Akshay Jadhav	
		(Space Automation.	
		Pune)	
		r une)	
		7)Mr Nirai Kanase	
		(DKTE Johalkaranii)	
		(DKTE, ICHAIKarahiji)	
		8)Mr. Vaibnav V.	
		Nalawade	
		(Institute of Computer	
		Science, Satara)	
		9)Mr.Pravin Koregave	
		(Infinite Uptime India	
		Pvt Ltd., Pune)	
2019-20	Yugam – Four Week Training	1)Dr Pawar A.B	29/7/2020
	Program on Artificial Intelligence	(Sanjivani College of	То
		Engineering Konargao	4/8/2020
		n)	
		2)MsPagar Vogita S	
		(Progressive	
		ES College of	
		Assume to a local	
		Aurangadad)	
		5) IVITSBaisnetwar S.V.	
		(Government College	
		ot Engineering,Karad)	
		4)Dr Shelake Priya M.	
		(VIIT,Kondhawa Pune)	
		5)Dr.Sarita Panwar	
		(AISSMS COE, Pune)	
		6)MrDhamalTushar .B.	

		(Tata Technology Pune) 7)Ms Shilpa Pimpalkar (AISSMS COE, Pune) 8)MrRajgudeDattatray a (CyabageTechnology,P une) 9)Mr Gaikwad Vinod (Morning Star,Pune) 10)Mr Tiwari (Cognifront Technology Nashik) 11)Mr. Jagdish Kolhe (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 Arduino uno 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
2019-20	Yugam – Four Week Training Program for Civil Engineering	Dr.R.R.Sorate (J.S.P.M.Bawadhan) 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) Prof.Mule Sir, (J.S.P.M.Narhe) Mr.Milind Vasudev (Lax Academy) Dr.Minde Sir (MIT,Kothrud) Mr. Jojo Mathew, (HIT.Nidasoshi)	29 June, 2020 to 24 July,2020

		Prof. Khandekar Sir	
		(PVPIT, Pune)	
		Dr. Wagh Sir (Zeal	
		College, Pune)	
		Prof. Vipul Naidu	
		(PVPIT,Pune)	
2019-20	Yugam – Four Week Training	Mr. Santosh Chavan (A	29 June, 2020 to
	Program on PCB Design	S M Tracks, Shirwal)	24 July.2020
	(Electrical Engg. & E&TC Engg.)	Prof. Venkatasai	, , , , , , , , , , , , , , , , , , ,
	(shreenath	
		(BVSR.Ongol. AP)	
		Prof. Sameer Bagwan	
		(ADCET, Ashta)	
		Dr. Dhanashree Gawali	
		(Singhgad Pune)	
		Prof. Vishal Ambhore	
		(VIIT Pune)	
		Mr. Shridhar Dudam	
		(Smart Logic	
		Technologies Pune)	
		Prof Nirai Kanse	
		(Electrowing Servies	
		Ichalkaranii)	
		Mr Prafull Bagade	
		(AutoTech Nashik)	
		Mr Teias Shilamkar	
		(Vertiv Engergy Pyt	
		I td)	
		Me Vinava Kadam	
		(Free Lancer)	
2018 10	Softskill Dovelopment Program	Mr Dulkit Singh	11/02/2010 To
2010-19	(under lead College Activity)	Me Sylviva Johnson	13/03/2019 10
	(under lead Conege Activity.)	(Eko Troining)	13/03/2019
		(Eka Haining)	
2018-19	Group Discussion Practice	Mr. Pathak P A	6/1/2019
	Session Activity	Mr Khade V C	To
		Mr. Nikam P R	27/1/2019
		(AGCE Satara)	



Fig.9.5 b: Yugam Web Designing Participant Certificate



Fig.9.5.c:English Speaking Session By Mr. A.A. Kale



Fig. 9.5.d: Five days Hands-on Workshop on Web Designing and Development in association with Code Culture, Pune

Effectiveness: These measures have proven to be effective as it is evident as show in below table.

	F	Placement Percentage				
Student Progression	2021-22	2020-21	2019-20	2018-19		
CSE	83%	95%	81%	63%		
E&TC	81%	94%	94%	90%		
Civil	80%	85%	88%	91%		
Electrical	91%	82%	82%	80%		
Mechanical	66%	70%	80%	72%		

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9.6. Entrepreneurship Cell

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. Shebin Cheriyan, Mr. S.D. Salunkhe RSETI, BOI Sangli)
- 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.
- 4. **Entrepreneurship Development Program** by MITCON Consultancy & Engineering Services on 18th and 19th January, 2019.
- 5. Talk on **Entrepreneurship Development** by Mr. Kiran Mane from Home Multi-trading Company and Technical Institute, Satara on 9th March, 2022
- 6. Organized session "Udyojakata Vikas Yatra" on 31th August 2023 for inculcating passion Passion for entrepreneurship among the students. A session was conducted before inauguration of Udyojakata vikas yatra Dr. Dipak Shikrapurkar has guided students regarding entrepreneurship.

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	IIC ID IC201912756	Aravind Gavali	College of Engineering	(C-11245)	Star Ratings (AY 20	021-22] *	8
-	A The deadline for	report submission has been ext	ended until September 11, 2023.				
🛔 About My Institute 🔺	in the Part I	•			Ch. days		
 My Profile 	s Institute Details	Council Meeting	go Add teaching/Nor	i teaching Members	Studen	it Members	Externa -
My Council	1.0						
 ISE Courses 	+ Add Teaching/N	ion 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			24
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. Gəyətri Mirəjkar gayətrimirajkar@gməil.com	Electronics and Telecommunication Engineering	Professor	Ac Go Doctorate	tivate Wind to Settings to a 15	

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	IIC ID IC201912756	Aravind Gavali (College of Engineering	(C-11245)	Star Ratings (AY	2021-22)		6
		The deadline for report sub	mission has been extended until Se	stember 11, 2023.			-	
About My Institute My Profile	Start up Activity Coordinator	Mr. Arjun Kadam arjunkadamforu@gmail.com 9730177047	Mechanical Engineering	Assistant Professor	Post Graduate	8	0	
My Council M&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 Details 	ARIIA Coordinator	Mr. Vijay Gujar gujar.vijay@gmail.com 7972059171	Computer Science and Engineering	Assistant Professor	Post Graduate	20	0	
Performance Card	NIRF Coordinator	Mr. Ankur Kamble ankkam@gmail.com 9067493289	Mechanical Engineering	Assistant Professor	Post Graduate	7	0	
Manage Activity e-Learning Resources Handholding and	Internship Activity Coordinator	Dr. Manali Shah shah.manali1@gmail.com 9822610818	Computer Science and Engineering	Associate Professor	Doctorate	22 ctivate Wir to Settings to		Vindows

Fig.9.6 a: Under ED Cell, institute has registered for Institute Innovation Course



Fig. 9.6.b: Udyojakata Vikas Yatra organized at Institute.

Sr.No	Name of Student	Program	Name of Organization
1	Randive Amol Sarjerao	CIVIL	A A Enterprizes, Ghatkopar
2	Kadam Arjun Suresh	CIVIL	Mahalakshmi Construction, Satara
3	Mane Sourabh Bajirao	CIVIL	Shree Datta Construction, Mhaswad
4	Shinde Anupsinh Virsing	CIVIL	Ratnaprabha Construction, Bhuinj
5	Patil Raj	CIVIL	M/S Raj Constro Corporation India
6	Lohar Rohit Namdev	CIVIL	The Engineer's Caffe
7	Jdhav Sanket Shashikant	CIVIL	Rajveer Builders Satara
8	Sutar Omkar 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	Jambhale Sandesh Subhash	ELECTRICAL	M. Sani Sandesh Electricals, Satara
13	Karande Piyush	ELECTRICAL	Siddheshwar Electricals, Satara
14	Bhole Rohit	CSE	3 STAR IT Solutions, Satara (JIJAU IT Solutions)
15	Jagdale Akash	Mechanical	Four Square Engineering, Pune
16	Shaikh Sabar	Mechanical	CUBE Enterprise, Satara
17	Avinash Mankar	Mechanical	Solar Enterprises Satara

Table No. 9.6 b List of Entrepreneurs

(10)

9.7. Co-curricular and Extra-curricular Activities

Sports Facilities:

- The Institution has a separate sports ground for outdoor games like Cricket, Football, Volleyball, Kabaddi 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	1		
5	Akshay Galve			
6	Chaitanya Yadav			
7	Omkar Yadav			
8	Aniket Tikudave			
6	Atharv Dhane	University	Chess	Participant
7	Omkar Miraje	1		
8	Anniruddha Kadam	1		
9	Hasan Shaikh	1		
10	Omkar Miraje			

TableNo.9.7. a Year-wise student's sport achievement

11	Mayuri Pawar	State	Kabbadi	Runner-up
12	Shravani Chavan	1		
13	Rutuja Katkar	1		
14	Shweta Kumbhar			
15	Akanksha Matkar	University		Participant
16	Aishwarya Panvelkar			
17	Arati Gaikwad	-		
18	Avishkar Kadam	1		
19	Sanjana Jadhav	1		
20	Vaishnavi Kamble	-		
21	Shreya Chavan	-		
22	Pragati Ghadge	-		
23	Amruta Deshmukh	-		
24	Sawant Omkar	District	Badminton (Men's Single)	Runner up
25	Surve Swaraj	University	Interzonal Wrestling	Winner
26	Ganesh Desai	State	Carrom	Participated
27	Mahesh Raut	State		
28	Divya kumbhar		Box Cricket	
29	Namrata khomane			
30	Vishakha Desai	-State		Participated
31	Nikita Chavan			
		Academic	Year 2021-22	1
1	Abhay Chorage	Institute	Tug of War	Participant
2	Akash Thorat			
3	Avdhut Mane			
4	Chaitanya Wagh			
5	Harshada Shinde			
6	Pratiksha Mandhare	Institute	kabbadi	Participant
7	Kshitija Dagade			
8	Aadharsh Kumbhar			
9	Abhishekh Kanse			
10	Akshada Patil			
11	Akshali Katkar	7		
12	Ankita Malusare	7		
13	Atharv Shirke	7		
14	Swaraj Surve	State	Wrestling	Participant

Satara hill marathon

Vaishnavi Bhise

Namrata Khomane

State

15

16

Volunteer

17	Ankita Deshmukh			
18	Nikita chavan	-		
19	Shravani Chavan			
1		Academic Ye	ear 2020-21	
1	Ayush Jadhav	Institute	Chessmania 2k21	Participant
2	Mustan Attar	_		
3	Rushikesh Gaikwad	_		
4	Utkarsh Pustake	_		
5	Abhishekh Jadhav			
6	Kavita Shinde			
7	Vaibhav Kumbharkar	State	Satara hill marathon	Volunteer
8	Subhangi Chogule			
9	Namrata Sakpal			
10	Pallavi Bhaulkar			
11	Laxmi Wandare			
12	Akash Date	7		
		Academic Yo	ear 2019-20	
1	Swaraj Surve	Intercollegiate	Wrestling-57kg (By KBPCOE, Satara)	Runner up
2	Omkar Mahadik	University	Kabbadi (By	Participant
3	Akshay Shinde	1	DBATU, Lonere)	
4	Kishor Mali	1		
5	Aryan Bhoite	1		
6	Sani Shirke	1		
7	Sushant Gaikwad	1		
8	Pratik Sutar	-		
9	Rahul Kalkundrikar	-		
10	Rushikesh Pawar	University	Kho-Kho (By	3 rd prize
11	Mahesh Pawar	1	DBATU Lonere)	
12	Vaibhav Pawar	1		
13	Prathmesh Chavan	1		
14	Mahesh Anande	1		
15	Subham Korade	-		
16	Sachin Sawant	1		
17	Akash Mulik	-		
18	Kriskna nagargoje	-		
19	Vaibhav Kadam	-		
20	Atul Jadhav	-		
21	Avishkar khatte	-		
22	Rohit Waghamode	-		
23	Altaf Mulla	-		

24	Avishkar Khatte			
27	Namrata Chavan	University	Kho-Kho (By	3 rd prize
28	Kanchan Gurav		DBATU, Lonere)	
29	Shital Sawant	-		
30	Pranita Dalvi	-		
31	Arati Dalvi	-		
32	Poonam Vadpathak	-		
33	Pratiksha Ingavale	-		
34	Priyanka Yadav	-		
35	Rutuja Shinde	-		
36	Neha Salunkhe	-		
37	Mayuri Shingate	-		
38	Sakshi Chavan	University	Kabaddi	Winner
39	Snehal Patil	-		
40	Karishma Patil	-		
41	Pooja Chavan	-		
42	Shubhangi More	-		
43	Hrituja Pawale	-		
44	Divya Velapure	-		
45	Sayali Daphale	1		
46	Priyanka Bhosale	-		
47	Priyanka Tarade	-		
48	Abhishekh Katkar	-	Shot Foot (By	Participant
49	Akash Jadhav	-	DBATU, Lonere)	_
50	Abhishekh Katkar	-	Relay 4*100 meter	Participant
51	Omkar Jadhav	-	(By DBATU,	_
52	Kishor Mali	-	Lonere)	
53	Omkar Mahadik	-		
54	Piyush Jedhedeshmukha	State	Satara hill marathon	Volunteer
55	Ganesh Godse	-		
56	Raviraj Mohite	1		
57	Rohitkumar Shinde	-		
		Academic	Year 2018-19	
1	Abhishek Katkar	University	Shot Foot (By DBATU	,Winner
			Lonere) Running 100m &	Dortiginant
			200m(By DBATU,	Participant
			Lonere)	
2	Vaibhav kadam		Running 800m &	Participant
			(By DBATU. Lonere)	
3	Avishkar khatte	1	Running 2000m	4rth Winner
			(By DBATU, Lonere)	



Fig.9.7. 1: Swaraj Surve : Winner in Interzonal Wrestling Competition organized by DBATU



Fig.9.7.2: 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	25/08/2019	Volunteers, Water Stations
	Half Marathon 2019)		
2	SHM 2018 (Satara Hill	02/09/2018	Volunteers, Water Stations
	Half Marathon 2018)		
3	SHM 2022(Satara Hill	18/09/2022	Volunteers, Food Stations
	Half Marathon 2022)		
4	MAS Marathon 2022	02/10/2022	Volunteers, Food Stations

TableNo.9.7.b: SATARA HILL MARATHON ACTIVITIES



Fig.9.7.3: SHM 2019 Water Station Activity for Runners



Fig.9.7.4 : MAS Marathon Activity 2022

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 non-technical events are being conducted.
- These association activities benefit in developing leadership skills and make them work in teams.

Sr. No.	AcademicYear	Details of cultural event	Number of students participated
1	2022-23	Shivjayanti Celebration	350
2		Western day & Mis Match day (05/05/2023)	522
3		Tie Blazer,Saree & Rose Day (06/04/2023)	650
4		School Dress & Food stall (07/04/2023)_	467
5	2021-22	ShivSwarajya Din(6/6/2022)	160
6		Tarunai 2022 (4/05/2022)	620
7		Holi Celebration(22/03/2022)	367
8		Shivjayanti Celebration (19/02/2022)	268
9		Savitribai Phule Jayanti (3/01/2022)	552
10	2020-21	Shivjayanti Celebration (19/2/2021)	272
11		Marathi Rajyabhasha Divas (27/2/2021)	70
12		Women's Day and self defense Session(8/3/2021)	103
13	_	Traditional day(19/2/2021)	182
14		Sadi & Tie Blazer day(20/2/2021)	147
15		Hollywood / Bollywood day(21/02/2021)	146
16		Chocolate Day(23/02/2021)	160
17	2019-20	Independence Day Celebration(15/08/2019)	359
18		Dandia Cultural Event Celebration(4/10/2019)	575
19		Technical Rangoli Competition(25/01/2020)	144
20		Western Day ,Funky Day and Twins Day(14/02/2020)	233
21		Sadi Say and Tie blazer Day(15/02/2020)	280
22		Bollywood,Hollywood,Tollywoo d .Mismatch Day(16/02/2020)	275
23		Scool Dress Day and Department Day(17/02/2020)	245
24		Shivjayanti Celebration(19/2/2020)	629
25		Traditional Day(19/02/2020)	168

26		Annual Day- (Tarunai-2020)	731
27		"NIRBHAYA" Walkathon by	80
		Nirbhaya Police Pathak	
		(17/02/2020)	
28	2018-19	Mahatma Gandhi	50
		Jayanti(02/10/2018)	
29		Dandiya 2018(17/10/2018)	409
30		YOUTH Festival at D.P.Bhosale	30
		College, Koregaon (26/10/2018)	
31		Presenting the Streetplay	10
		on"Acche Din wo Chaar Din"	
		(11/11/2018)	
32		Savitribai Phule	104
		Jayanti(03/01/2019)	
33		Against Dowry Conference at	25
		Muktangan Satara (14/04/2019)	
34		Mahatma Gandhi	50
		Jayanti(02/10/2018)	



Fig.9.7.5 : Annual Cultural Event "TARUNAI"



Fig.9.7.6: Shivjayanti Celebration

ARVIND GAV	AMARTH EDUCATIONAL TRU ALI COLLEGE OF ENGI	INEERING, SATARA
· · ·	Sertifico	te.
This is a Constitute	Struget Nika	
Student of Arvind Gavali	College of Engineering, Satar	a studying in Tr Electrical
has secured Runnar	HP in the Bollywood Holly	wood F. Tolly Competition
	held on	day
	Rang Co	the second second
		1 KAR
and the second second second	Constitution	Principal

Fig.9.7.7 : Student participated in Bollywood, Hollywood and Tollywood competition

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 Year	Date	EventName
1	2022-23	15/08/2022	Independence Day
2		14/11/2022	Children Day
3		8/12/2022	Lek Ladki Abhiyan
4		12/01/2023	Jijau jyanti,Swami Vivekananda Jayanti
5		26/01/2023	Republic Day
6		19/02/2023	Shivjayanti
7	-	23/02/2023	Blood Donation
8	-	08/03/2023	Women's Day
9	2021-22	4/03/2022	Food Donation at Villages
10	-	4/03/2022	Swatchhata Abhiyan
11			Health Checkup Camp
12	-	5/3/2022	Blood Donation Camp
13			Tree plantation
14	-	6/03/2022	Dustbin Donation Activity
15		20/06/2022	No Vehicle Day
16	2020-21	15/08/2020	Arscenic Album Distribution Activity
17		21/03/2021	Tree Plantation

TableNo.9.7. d:Year-wiselist of NSS activities

Sr. No	Academic Year	Date	Event Name
18	2019-20	22/07/2019	"Jal Divas" Celebration
19		12/08/2019	Activity for helping People of flood
			Affected Areas
20		2/10/2019	"Swatchata Hi Seva" Activity
21		2/10/2019	"Road Safety Week" (Session for
			Guidance on Road Safety and Rules by
			Mrs. Afreen Mulani (RTO Officer Satara)
22		26/01/2020	Participated and Guided regarding the
			"UNNAT BHARAT ABHIYAN" in
			GRAMSABHAs of 5 Villages
			(Panchwad, Kudal, Panmalewadi, Varye,
			Bhuinj)
23		2/2/2020	NSS Camp at Anewadi, Satara
		То	
		8/2/2020	
24	2018-19	14/1/2019	NSS Camp at Bhaleghar, Sanpane, Satara
		То	
		19/1/2019	
25		21/07/2018	Tree Plantation
26		02/10/2018	"Swatchhata Awareness Ralley"
27		25/01/2019	"National Voters' Day"
28		06/02/2019	Road Safety Guest Lecture
29		22/02/2019	"Swatchhata Camp"
30	_	23/02/2019	Blood Donation Camp



Fig.9.7.8: NSS Camp at Jalgaon Tal. Koregaon, Dist. Satara (2023)



Fig.9.7.9 :Swatchhata Activity during NSS CAMP at Bhaleghar, Sanpane, Satara



Fig.9.7.10: NSS CAMP at Bhaleghar, Sanpane, Satara



Fig.9.7.11: 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. 9.7.12: Unnat Bharat Abhiyan

Fig. 9.7.13: Guidance in Gram Sabhas under UBA

Co-curricular Activities:

Students are motivated to participate in National level Competitions related to Project Presentation, Paper/Poster Presentation, Debate, 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.	Academic Year		Number of students
No.		Name of the Competition	participated
1	2022 23	KISIT IET INTECH 2K23	15
1	2022-23	RJSH-IEI-INTECH-2R25	15
2	_	POTPAY 2022	02
2	-	DIGIT 2V22	02
3	-	Vacha Tash East 2022	02
4 5	-	Tash East 21/22 Dy Kisanyaan	00
5		College Wei	01
6	-	DIN Advanced Technology	04
0		PHIN Advanced Technology	04
		Development	
7	-		03
/ Q	_	Leve Training by Resent	03
0		Tachnology	02
0	-	Proin it On 1.0	03
2 10	-	$\frac{\text{Drain-n-On 1.0}}{\text{DCODE }2k23}$	01
10	-	Technical Project Competition	12
11	-	Kurukshotra 2K23	02
12	-	MATEO Antitudo Idol 2023	25
13	-	AVISHKAD 2022	12
14	2021.22	AVISHKAR 2022	12
13	2021-22	Compatition (by KI Someive	04
		Institute of Engineering and	
		Institute of Engineering and	
		Sion Mumbai) 16/04/2022	
16	_	National Level Project	01
10		Competition (by Bharati	01
		Vidypeeth College of	
		Engineering Pune)21/05/2022	
17		National Level Project	05
1/		Competition (by Vashodba	UJ
		Technical Campus Satara	
		9/05/2022)	
		<i>DIGJI2022</i>)	

TableNo.9.7.e Project and other national level Competition participant data

18		Internal Hackthon of Smart India	06
		Hackthon 2022) 28/04/2022	
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 shikshan Vidyarthi	
		Karya,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.9.7.14 :SMART INDIA HACKTHON at Bhilai Institute of Technology Durg



Fig.9.7.15: ROTAREX 2023 (Project Exhibition & Competition) at Satara



Fig.9.7 16 Student ID card participating in Rotary Club



Fig.9.7 17 Student participation certificate for project presentation (CRETECHNOVA 2k23)



Fig.9.7.18: 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 inculcates passion towards geotechnical field and guides career opportunities in geotechnical field.



Fig.9.7.19: 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.



9.7.20: 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. 9.7.21: Prize distribution of Photography & Videography 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. 22: 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 Programs the Kuka Robots, PLC Programming.



9.7.23: Training Program offered in association with

Cloud Computing Club: The major objective of our group is to raise technical awareness of cloud and develops 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. 9.7.24: 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



9.7.25: 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.



9.7.26 : Participation in LAGHUPAT MAHOTSAV related to Woman Awareness

Sr. No.	Academic Year	Activities	Date
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. Ajinkya Pawar (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. Akshay Jadhav (Infinity Academy, Pune)	6/04/2022
9		Awareness program about Girl Child.	3/01/2022
10		One day python programming workshop By Mrs. Snehal Kasurde	20/11/2021
11		One day Network security workshop By Mr. Prashant Patil	16/12/2021
12		Hands on data analytics using Tableau workshop by Ms. Pimpalkar Shilpa	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 on Introduction to Career Opportunities in System Networking by Mr.Ajit Sutar	11/09/2019

Table No.9.7.f: List of activities conducted



Fig.9.7.27: Master Kishor Ghadge from Mechanical got opportunity to study in Germany



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Coventry University Priory Street Coventry CV1 5FB Telephone +44 (0)24 7615 2152 Fax +44 (0)24 7615 2175 www.coventry.ac.uk/international

Postgraduate Masters Taught International Conditional Offer

Mr. Jeevan Kalidas Sutar Public School , A/P Pusegaon Satara Satara 415502 India

Student ID:14228072

Date: 24 May 2023

Application Decision

Dear Mr. Sutar,

place.

Coventry University, Coventry University London, CU Coventry, CU London and CU Scarborough come together to form part of the Coventry University Group (the "University") with all degrees awarded by Coventry University.

With reference to your application to study at the University, we are delighted to offer you a place on the following course which is conditional on the 'offer conditions' detailed below being met:-

Course Title	MSc Supply Chain Management and Logistics (RQF Level 7)
Location	Coventry University
Award on Successful Completion	MSc
Stage of Entry	Stage 1
Academic Course Start Date	11 September 2023
Usual Course Duration	1 year
Total Anticipated Tuition Fees	£20,050.00 as advertised for the 2023/2024 Academic Year
per Academic Stage/Year of the Course	[use your student ID as a payment reference]
1 st Tuition Fee Payment for the first Academic Stage(the Deposit to secure your place)	E8000.00 to be received by the University as part of your offer conditions. Or meeting your other offer conditions and by paying this Deposit, you formally accept your offer of a place with the University.
Remaining Tuition payment for the Academic Stage/Year	£12,050.00 to be received by the University by the payment deadlines detailed in the <u>Tuition Fee Terms and Conditions</u> . 50% of remaining tuition fees to be received by the University before 15 th November 2023(TBC). Remaining balance to be received by the University before 15 th January 2024(TBC). See details in the <u>Tuition Fee Terms and Conditions</u> on our website.
Scholarship/Tuition Award (subject to eligibility)	These are awarded based on specific requirements and are subject to eligibility. Please note final confirmation of any awards/scholarships will be confirmed on your CAS statement. *If awarded, this is only valid for your first year of study at the University*
Estimated Living Expenses (based on UKVI Guidance)[UKVI Student Route Policy Guidance]	Estimated at £1023.00 per month

Fig.9.7.28: Master Jeevan Sutar from Mechanical got opportunity to study in UK

CRITERION	GOVERNANCE, INSTITUTIONAL	120
10	SUPPORT AND FINANCIAL	
	RESOURCES	

10.1 Organization, Governance and Transparency		
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	Chanman	
2	Shri. Gavali Arvind Kondiram	Secretary	
	Hon. Chairman, Samarth Educational Trust, Satara	Secretary	
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. Waikar Omkar	Member	
10	Supreme Siliconesans Trinity Enterprises Pune		
12	Mr. Bidwai Shailesh P.	Member	
12	Chairman S.P. Packaging LTD		
13	Mr. Godbole Ashutosh Chartad Assounted	Member	
1.4	Cal Ma Kanaga Dramad A		
14	LUI IVII. Kallast Flallou A. Ex Serviceman & Professor	Member	
15	Drof Hingmire Vishal Charad		
15	Assistant Professor	Member	
	ArvindGavali College of Engineering Satar		
16	Mr. Pathak Pranay Avinash		
10	Assistant Professor	Member	
	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)**

Table 10.1.2b Members of College Development Committee of Institut
--

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 of	2018-19		2019-20		2020-21	
Committee	Meeting	Date of	No of	Date of	No of	Date of	No of
		Meeting	Present	Meeting	Present	Meeting	Present
			Members		Members		Members
Governing	2	2/06/201	11	15/08/20	10	15/06/20	11
Body		8		19		20	
		26/01/20	10	26/01/20	10	15/06/20	11
		19		20		21	
College	2	2/06/201	07	14/06/20	07	17/05/20	11
Developme nt	opme	8		19		21	
Committee		2/01/201	07	16/05/20	11	NA	NA
		9		20			
Internal	2	11/09/20	10	26/01/20	14	15/06/20	14
Quality Assurance		18		20		20	
Cell		15/11/20	16	NA	NA	23/02/20	15
		19				21	

Table 10.1.2d Frequency of Administrative bodies meetings

Name of	Frequency	2021-22	2022-23		
Committee	of	Date of	No of	Date of	No of
	Meeting	Meeting	Present	Meeting	Present
			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

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		Dr.Babasaheb Ambedkar Technological University डॉ. बाबासाहेब ओबेउकर तंत्रचास्त विद्यापीठ Lonere-402103 Tal- Mangaon, Dist- Raigad (M.S.) India.	Sea	rch Search Redu	2
	*	University v Governance v Examination Academics v Affiliation Student Cor	ner Research	IQAC More ~ Get In Touch	
	Academ	ir Caurell			
		Academic Council		G2 अन्त महोस्तव	
	Sr. No.	Name & Address	Designation	National Education Policy 2020	
	01	Professor (Dr.) Karbhari V. Kale Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Lonere	Chairman	Quick Links	
	02	Dr. S.L. Nalbalwar Dean (FoET)	Member	> About University > Hintory	
	03	Dr. S.M. Pore Dean (R&D)	Member	> Vision & Mission	
	04	Dr. H.N. Warhatkar Head, Department of Mechanical Engineering	Member	 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. Sangita Melkar Head, Department of Petrochemical Engineering	Member	 Strategic Plan (2016-21) Annual Reports 	
	10	Dr. A.P. Shesh Head. Department of English	Member	> AQAR	
	11	Dr. MFAR Salarkar Head. Department of Electrical Engineering	Member	Mandatory disclosure AICTE EOA/LOA	-
	12	Dr. H.A. Muiawar Head. Department of Chemistry	Member	> NISP Action Plan Dr. BATU Lonere	
	13	Dr. Vilse Dharande Drincinal Anind Causti College of Engineering Dune	Momber	 National Innovation and Start Up Policy Governance 	
	10 L	in the finance finape, return states conside of Lightoning, Fund	TTTOT BOOT	> The Chancellor	

Website: www.dbatu.ac.in, E-mai	विद्याविहार, लोगोर-रायगड ४२२ १०३ (महाराष्ट्र) Vidyavihar, Lonere - Raigad 402 103 (Maharashtra) Tel: (02140) 275142 Student Helpline: 02140 - 275212 Website: www.dbatu.ac.in, E-mail: registrar@dbatu.ac.in			
Dr. Bhagawan F. Jogi	डॉ. भगवान फ. जोगी			
Registrar	कुलसचिव			
	DBATU/REG/AC/ CPO			
To	Dated: 15 th May, 2023			
Prof. Vilas Pharande				
Arvind Gawali College of Engineering				
At. Panmalewadi, Post - Varye.				
Tal & Dist. Satara - 415 015				
Subject: Nomination on the Academic Cou of DBATU Act 2014 and Universit	uncil of the University as per Section 30 (1) (f) y Statutes			
Sir,				
I am directed by Hop'ble Vice Changelles to				
Arademic Council of the University is considered	inform you that your Nominatation on the			
2014 and University Statutes I am pleased to it	d, as per the section 30 (1) (1) of DBATU Act			
'Member of the Academic Council' of the University	ity			
The tenure of your membership on the Academ	nic Council will be for three (3) years i.e. upto			
14 May, 2026 as per Section 30 (2) of DBATU Act	2014.			
The committee member should follow the Unive	rsity Act, Statutes and Rules and Regulations of			
Government's and Various Apex Bodies time to t	ime.			
You are requested to send your acceptance of the	a fame as as haf a sa the lases			
rou are requested to send your acceptance of the	e same on or before 22/05/2023.			
	2023			
	c.os.			
(a)	Registrar			
Cares.	Nh 100 REGISTRAP			
Encl: Format of Acceptance is attached herewith	Ur. Babasaneb Ambedkap/lechnological Universi LONERE 402 103.			
	Tal Mengaon, Dist. Raigad, (Maharashtra)			
Copy for Information:				
	ar Technological University Laws			
 Hon. Vice-Chancellor, Dr. Babasaheb Ambedi 	technological University, Lonere			

10.1.2a Principal Dr. Vilas Pharande is DBATU University Academic Council member



10.1.2b 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.





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.
- \checkmark 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.
- \checkmark To assist the Principal in all students related issues.
- \checkmark 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

- ✓ To provide secretarial support to the Executive Director
- ✓ To handle day-to-day office activity smoothly.
- \checkmark 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

- \checkmark To implement all library rules as defined by the management.
- \checkmark 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.
- \checkmark 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.
- \checkmark 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.
- \checkmark 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.

 \checkmark 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.
- \checkmark 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.
- \checkmark 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.
- \checkmark 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.
- \checkmark 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. Ghadge Suraj	Dean Academics	
2	Mr. Hingmire Vishal	Dean IQAC	
3	Dr. Mirajkar Gayatri	Dean R& D	
4	Mr. Rajani Mandhare	Dean Student Council	
5	Dr. Ananda Bhimrao	HoD Dept of Mechanical Engineering	
	Gholap		
6	Dr. Bamane Prashant	HoD Dept of Civil Engineering	
	Ramesh		
7	Dr. Nayak Meghay Banoth	HoD Dept of Electrical Engineering	
8	Dr.Sagar Shinde	HoD Dept of Electronics & Telecommunication	
		Engineering	
9	Dr. Shaha Manali	HoD Dept of Computer Science &	
		Engineering	
10	Mr. Pathak P.A.	Training & Placement	
11	Mrs. Yewale Vaishali	Librarian	
12	Mr. Kamble Ankur	Director of Physical Education	
		Coordinator NSS	
13	Dr. Nayak Meghay Banoth	Coordinator Alumni Association	
14	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. Internal Quality Assurance Cell
- 3. Examination Committee
- 4. University/AICTE/DTE Committee
- 5. Promotional Activity Committee
- 6. Training & Placement Committee
- 7. Alumni Committee
- 8. Research and Development and Intellectual Property Right
- 9. Infra administration & Maintenance
- 10. Information and Communication Technology 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. Internal Quality Assurance Cell (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	

3. 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.

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	AssistantProfessor,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	

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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. Research and Development and Intellectual Property Right

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 adminis	stration & 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	AssistantProfessor,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. Information and Communication Technology 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	

Table 10.1.3.j ICT committee member

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.m 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.n Grievance Redressal Cell committee members			
Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Dr. Thombare Vijay Ramchandra	Coordinator	HOD Civil 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
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

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	Dr. Thombare Vijay Ramchandra	Coordinator	HOD Civil 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
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 Con	mmittee (ICC) / W	omen's Grievance Cell
Sr.	Names of committee	Designation	Department
190.	members		
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
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



Fig 10.1.3.b. Internal Complaints Committee has taken action and suspended faculty

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
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

Table 10.1.3r Anti ragging Committee

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

A Los tot in BI Sta Date 6109/2022 TO 14 41 42 42 sub! Lab for New computer Lab Devlopment We Develop new computer Lab, for this we sequired some New matricel. New material hist attach with this application. So full fill this sequise ment Youss faith fully Aapolle ps 17/50 Approx. development. New Lub development. Discussed with Hon-seconterry sir Discussed with Hon-seconterry sequencing location of uppering withul others.

Lab Re Mateias Requirement for News computer Lab () cable Teay - 50 feet (26) 18001-3 Las cable - Apport US UN. 250M 36001 tan Switch 01 - 100 M 75001 Lan Switch Box - 01 8600 (250 Connector .- 60 (5) Lan 850 17,150 Recommendeel Recommendeel Recommender Reco 5 Fig 10.1.4.a Principal has approved Rs.17150/- for libratory development

fait for the					
				Deta 10/07/2022	
				Date: 1010111202	
	То				
	The F	rincipal			
	AGCE	satara			
	Sub :	Regarding requirement of solar	panel structure working in worksho	p	
	Deres	and all			
-	Resp	ected sit,			
	Detai	I of consumable given in the folic	owing table		
	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)	01	1500	
	5	Shaft 25*3	01	1500	
	6	Hydraulic (]	04	8000	
	7	fashar Square plate (4*4*5)	20	100	
	9	Square plate (6*6*5)	01	400	
	10	consumable		2000	
	11	Universal joint	01	500	
	4.4	manaport	TOTAL	23985/-	1
			IOTAL	255057-	1
15	Please 5175 8125	GI-COSh. 11/815	red M	Thanks & Regards r. Kadam Akshaykumar B. (Work shop incharge)	
		VAG	2.[Sature	¢.

Fig 10.1.4.b. Principal has approved Rs.23985/- for solar panel structure working.

nncipal AGCE , Satara subject; sanctioning budget amount for stage of day selebration Respected sir, With the above reference we are Plan to relebrate annual function of 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 Le youns saith

Fig 10.1.4.c Principal has approved Rs.10000/- for extracurricular activities



Lab



Fig 10.1.4.e Principal has approved Rs.15000/- for Sports activities
		PURCI	ASE ORD	ER			
				10	Date: 27	March, 2023	
	То,						
	The Principal, Arvind Gavali College of En Satara	gincering,					
	Subject: Purchase order of boo	sks required					
	Dear Sir, I have placed an orde These books will be deposited	r for the follow in the Central	ing books re Library of A	quired for in GCE, Satar	mproving a	Technical Sk	ills.
Sr. No	Title of the book	Author	Publisher	Quantity	MRP (RS)	Discount (%)	Total Cost (RS)
1.	Powers 3 yourn Protidion 4	Rayindoarath	integnetional	1	399	83 %.	269 4 51212
2.	Powers system slability	Edward wilson	vuled.	1	899	51 %	350 . Th
	Total	I Albrain		2			- 161413
		Shipping Ch	arges		M		0
		Net Payme	ant				019
	Kindly sanction the same and	oblige.	OH-		X	R	

Fig 10.1.4.f1. Faculty member has purchase order of book required from their account

-

- moran in	-	1000					
amazon.in	Tax	Invo	Dice/E	sill of	Tripli	ply/Cas cate for	Supplie
Sold By : THE BOOK SHOP. GA-59A, Pul Pehlad Pur Near Durga Mendir NEW DELHI, DELHI, 110044 IN		Arvin	d Gava SAT	ili colli ARA,	ege of Мана	Billing ASHLE engineer RASHTF State/U	Address SHA MAL Ing. Satar A. 41501 If Code; 2
PAN No: ANQPP3696N GST Registration No: NotApplicable		Arvini	d Gava	li cola	s age of MAHA	hipping ASHLE ASHLE angineer RASHTF	Address SHA MAL SHA MAL ing, Satar (A, 41501)
Order Number: 405-9977588-9551645 Order Date: 28,03,2023	<i>.</i> //		Plac Plac nvoice	e of s e of d li Detai	supply eliver nvoice ls : DL nvoice	Numbe Date : :	Code: 27 RASHTRA RASHTRA r : IN-156 3665-222 28.03.202
SI. No Description	Unit	QLY A	et mount	Tex Rate	Тах Туре	Amount	Total Amount
Power System Stability, Vol I. H. III) 8128512571 (HSN.4801 Shipping Charges	¥330.00	, t	350.00 100.00	0% 0% 0% 0%	IGST None IGST IGST	10.00 10.00 10.00 10.00 10.00	1350.00 1100.00
TOTAL					1	10.04	\$430.00
Amount in Words: Four Hundred Fifty only							
					For TI	Book Ca	к SHOP.: Ю ^р
1							

Fig 10.1.4.f2. Faculty 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.

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SAWR	AR	258	751	8			
	1	Posts	Followers	Followin	ng		
AGCE	Satara						
College	& universi	ity					
Sawkar	· Institute's	3					
Anvind	Gavali Colle	ege of Engine	ering, Satara				
First NAAC Accredited College in Satara! @ agce.edu.in/ and 2 others Gate No. 247, Panmalewadi, Satara 415015 Followed by ankun kamble1117, dialaehish and 101 others							
Fo	llowing ~	Mes	soce	Contact			
PLACEMENT	ati						
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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):		
	(Am	ount)		(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	75973631	12625864.8	8900	80553.09

Table B.10.2a – CFY (2022-23)

Table B.10.2a - CFY (2021-22)

	Total (Ar	Income nount)		Actual expenditure (till): (Amount)			Total No. of Students (Student nos.)
Fee	Govt.	Grants	Other Sources (specify) Prizes and Awards	Recurring including salaries	Non Recurring	Special Projects/Any other, specify BCUD, R&D and grants	Expenditure per student
79606611	0	0	367635	68270674	10630726	78700	62982.54

r	Fotal Inc	come		Actua	Actual expenditure (till):		
	(Amou	int)		(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	l expenditur	e (till):	Total No.
	(Amo	ount)		(Amount)			of Students (Student nos.)
Fee	Govt.	Grants	Other	Recurring	Non	Special	Expenditure
			Sources (specify) Prizes and Awards	RecurringNonSpecialincludingRecurringProjects/AnysalariesspecifyBCUD,BCUD,R&D andgrants			per student
64740364	0	0	734740	63512329	10009259	288619	63904.94

	Total Income				l expenditur	e (till):	Total No.
	(Amo	ount)			(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 2022- 2023	Actual Expenses in 2022- 2023 till	Budgete d in 2021- 2022	Actual Expenses in 2021- 2022 till	Budgeted in 2020- 2021	Actual Expenses in 2020- 2021 till
Infrastructure Built-Up	1100000	1028673	3300000	3104976	0	0
Library	80000	70845	23000	30445	35000	13570
Laboratory equipment	1100000	1060990	1080000	1014157	655000	594030
Laboratory consumables	1775000	1647092	1120000	1023030	1055000	674170

Teaching and nonteaching staff salary	69112000	65298451	65100000	61189875	63560000	57326373
Maintenance and spares	2875000	2700109	3190000	2992063	1350000	1224440
R&D	350000	314190	290000	259388	90000	74700
Training and Travel	2618000	2416915	1710000	1659560	1600000	1474093
Miscellaneous expenses *(All remaining recurring exp., excl. Depreciation)	255000	214685	159500	148374	135000	113427
Others, specify (All remaining Capital exp.)	31356000	16428774	15177000	11686365	27540000	11287915
Total	110621000	91180725	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		
La face atoms atoms				
	0	0	0	0
Built-Up				
Library	167000	156491	400000	138375
Laboratory				
equipment	850000	797104	430000	277400
Laboratory	1640000	1/70508	1536000	2051900
consumables	1040000	1479508	1550000	2031900
Teaching and				
nonteaching staff	63560000	57623428	69300000	50222741
salary				
Maintenance and	1985000	1850670 //3	1882000	1812300 17
spares	1905000	1030070.43	1002000	1012377.17
R&D	320000	288619	180000	151600
Training and				
Travel	1705000	1496097	1077000	2106971
Miscellaneous				
expenses *(All				
remaining	91000	77900	173000	293916
recurring exp.,				
excl. Depreciation)				
Others, specify				
(All remaining	25374000	10953838	28496520	15267127
Capital exp.)				
Total	95692000	74723655.43	103474520	72322429.17

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	110,621,000.00	Adequate
2	2021-22	9,11,49,500.00	Adequate
3	2020-21	9,60,20,000.00	Adequate
4	2019-20	9,56,92,000.00	Adequate
5	2018-19	10,34,74,520.00	Adequate

(15)

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.

- 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	110,621,000.00	91,180,725.65	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
(223340	6/-)	(Amount) (2078601/-)		Students (269)
		, , , , , , , , , , , , , , , , , , ,	,	
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per
				student
308128	1925278	295125	1783476	7727.14

Table B.10.3a: CFY (2021-22)

(Amou	nt)	Actual expe	Total No. Of	
(1775147)		(Amount) (1670686)		Students (273)
Non-Recurring	Recurring	Non-Recurring Recurring		Expenditure per student
288561	1516586	244872 1425814		6119.73

(30)

Actual expenditure (till...): Total No. Of (Amount) Students (1207600) (Amount) (257) (1032700) Expenditure per Non-Recurring Non-Recurring Recurring Recurring student 170600 150560 882140 4018.29 1037000

Table B.10.3a: CFYm1(2020-21)

Table B.10.3a: CFYm2(2019-20)

(Amount)		Actual expendit	Total No. Of Students	
(1821	500)	(Amou	(226)	
		(16611		
Non-	Recurring	Non-Recurring Recurring		Expenditure per student
Recurring				
360500	1461000	338900	1322200	7350

Table B.10.3a: CFYm3(2018-19)

(Amou	int)	Actual exper	Total No. Of Students	
(19597	00)	(An	(271)	
		(1873500)		
Non-Recurring Recurring		Non-Recurring	Recurring	Expenditure per student

631000	1328700	113900	1759600	6913

Table B.10.3b

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

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

years.

5

Adequate

10.3.1 Adequacy of budget allocation

2019-20

2018-19

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

Adequate/ Non-Adequate Assessment Sr. No **Allocated Budget** Year 1 Adequate 2022-23 2233406 2 Adequate 2021-22 1775147 3 Adequate 2020-21 1207600 4 Adequate

1821500

1959700

Table 10.3.1	Adequate	budget	allocation	Electrical	Enginee	ering D	epartment
	1	<u> </u>			0	<u> </u>	1

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 Electrical Engineering Department.

Sr. No	Assessment Year	Allocated Budget	Utilized Budget	Utilized Percentage
1	2022-23	1087693	1012248	93.06
2	2021-22	983954	926064	94.12
3	2020-21	805900	682720	84.72
4	2019-20	1334500	1215431	91.08
5	2018-19	1446600	1383800	95.66

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

Year of Purchase	Particulars
2022-23	DELNET
2021-22	DELNET
2020-21	DELNET
2019-20	DELNET
2018-19	DELNET



Fig10.4.1.a. DELNET e- Resource subscription 2023-24.

	大 大	DELNET			
	THE	Developing Library Network			
Dr.	Sangeeta Kaul	J.N.J. Campus, Nelson Mandela Road			
	Director	Tei: 91-11-26742222, 26741261 91-9810329992 (Mobile E-mail: sangs@deinet.ren.nic.in sangskaul2003@yahoo.co.il			
	DELNET/IM-6724/mbAGCEA(EM/2022	Web: www.delnet.in			
		February 25, 2022			
	Dear Mrs. Chandrakant, Sub: DELNET	Membership Renewal			
	We acknowledge with thanks the receipt of ₹ 1 through NEFT dated 14.2.2022 made towards the DELN to 19.2.2023. The receipt no. 68153 dated 18.2.2022 is e	3.570 (€ Thirteen Thousand Five Hundred Seventy only) received ET Annual Institutional Membership Fee for the period 20.2.2022 nelosed for the office records			
	You are requested to access DELNET database	s through the World Wide Web using the following procedure:			
	Web Address ht	tp://www.delnet.in			
	Click onto "New Discovery Portal". Since the IP address provided by you is not static (broadband), you are requested to use following login & password to access the new discovery portal of DELNET.				
	Login Password	: mhagces			
	Kindly note your later Library Loss (0.1. 6. 0	· ogecoute			
	sangskaul2003@yahoo.co.in for the resources needed 1 complete user manual on how to access DELNET online like to inform you that Usage Report can be generated three of the landing page of the discovery portal. Kindly use the report of your institution.	by you. We will up our best to locate these resources. Also, a databases is available at the Discovery Portal. We would further hugh "USAGE STATISTICS" link which appears at the top side password as 6724***1992 to download the pdf, containing usage			
	I would like to mention that DELNET provides act articles, etc. through Discovery Portal and also more than through <i>Knowledge Gainer Partal</i> . DELNET also provides DELNET Guest House facility at New Delhi can also be a	sess to more than three crore catalogue records of books, journals, one crore and fifty lakh full-text c-books, c-journals & c-articles s Delplus software free of charge for library automation purpose, vailed by member-libraries on payment basis.			
	I would also like to inform you that DELNE Networked as the less and Services at a mutually convenier of Arvind Gerar College of Engineering, Dist. Satara, M resources and services.	I shall be glad to organise a one hour webinar on DELNET i date and time for the students, faculty, researchers and scholars aharashtra". It will help in the effective utilisation of DELNET			
	I am enclosing a poster on DELNET and a Certi get any books on ILL or the journal articles.	ficate of Membership. Please kindly let us know if you wish to			
	With kind regards,				
		Tour sincerch			
		()			
		and			
	Mrs. Yewale Vaishali Chandrakani Libnarian Arvind Gavali College of Engineering At. ('awinalewadi, Pont Varye Dist. Satara-415015	Sangeeta Kaul			
	Maharashtra Encl. (1) Resolution of the				
	(2) Tax Invoice (3) DELNET Post (4) Certificate of N	55 dated 18.2.2022 of ₹13,570 r Iembership			

Fig10.4.1.b. DELNET e- Resource subscription 2022-23.



Fig10.4.1.c. DELNET e- Resource subscription 2021-22.

		DELNET
	tắt lõi	Developing Library Networ
Dr. S Net	Sangeeta Kaul twork Manager	J. N. U. Campus, Nelson Mandela Roa Vasant Kunj, New Delhi 110070, Ind Phone : 91-11-26742222, 2674126 91-9810329992 (Mobil Fax : 91-11-2674112 E-mail : sangs@delnet.ren.nic.i sangskaul2003@yahoo.co. Web : www.delnet.rec
	DELNET/IM-6724/mhAGCE/MEM/2020	February 15, 2020
	Sub: DELNET Membership Renewal	
	Dear Mrs. Yewale,	
	We acknowledge with thanks the receipt of ₹ 13,570 (₹ Thirteen Th received through NEFT dated 12.02.2020 made towards the DELNET Annual period 20.02.2020 to 19.02.2021. The receipt no. 60007 dated 15.02.2020 is en	nousand Five Hundred Seventy only) Institutional Membership Fee for the closed for the office records.
	You are requested to access DELNET databases through the Wo	orld Wide Web using the following
	procedure: Web Address; http://www.delnet.in	
•	Click onto "New Discovery Portal". Since the IP address provided are requested to use following login & password to access the new discover	by you is not static (broadband), you ry portal of DELNET.
	Login : mhagees Password : agees6724	
	Kindly note your Inter Library Loan (ILL for Books) Password is "mh a request. You are also welcome to send us the bibliographical refu sangskaul2003@yahoo.co.in for the resources needed by you. We will try ou complete user manual on how to access DELNET online databases is uvaila	agceslib" to be used while registering erences at sangs@delnet.ren.nic.in, r best to locate these resources. Also, a bie at the Discovery Portal.
	I would like to mention that DELNET provides access to more than a journals, articles, etc. through Discovery Portal and also more than one crore fu through <i>Knowledge Guiner Portal</i> . DELNET also provides Delplus software purpose. DELNET Guest House facility at New Delhi can also be availed by a	hree crore catalogue records of books, all-text e-books, e-journals & e-articles e free of charge for library automation member-libraries on payment basis.
	I am enclosing a poster on DELNET and a Certificate of Membership to get any books on ILL or the journal articles.). Please kindly let us know if you wish
•	With kind (egards,	Pours sincerely,
	Mrs. Yewale Vaishali Chandrakant Librarian	Sangepin Kant
	Arvind Gavali College of Engineering AL Panmalewadi, Post Varye Dist. Satara-415015 Maharashtra	
	Encl: (1) Receipt no. 60007 dated 15.02.2920 of ₹ 1. (2) Tax Invoice (3) DELNET Poster	3,570/-
	(4) DELNET Brochure	

Fig10.4.1.d. DELNET e-Resource subscription 2020-21.
tat		DELNET
A.		Developing Library Network
Sangeeta Kaul		Vasant Kunj, New Delhi 110070, India Tel: 91-11-26742222, 26741260 91-9810329992 (Mobile
		Fax: 91-11-2674112 E-mail: sangs@delnet.ren.nic.in sangskaul2003@yahoo.co.i Web: www.delnet.i
		Munit 6 2010
DELNET/IM-6724/mhA	GCES/MEM/2019	March 3, 2019
Dear Mrs. Chandrakant,	Sub: DELNET Members	hip Renewal
We acknowledg only) received through Membership Fee for the for the office records.	e with thanks the receipt of ₹ 13,57 n NEFT dated 18.2.2019 made period 20.2.2019 to 19.2.2020. Th	70 (₹ Thirteen Thousand Five Hundred Seventy towards the DELNET Annual Institutional e receipt no. 55492 dated 27.2.2019 is enclosed
You are request	ed to access DELNET databases th	rough the World Wide Web using the following
procedure:	Web Address: http://www	v.delnet.in
Click onto DE (broadband), you are	LNET Discovery portal. Since t requested to use following login &	the IP address provided by you is not static & password to access the new discovery portal
of DELNET.	Login : mhaged Password : agces67	25 124
Kindly note you also welcome to sangskaul2003@yaho try our best to locate th is available at YouTub	send us the bibliographica o.co.in for the resources, which ar ese resources. Also, a complete der e. The link is available at DELNE	to be used while registering a request. You are references at sangs@delnet.ren.nic.in, e not available in our union catalogues. We will no on how to access DELNET online databases T database site.
I am enclosing you wish to get any bo	a poster on DELNET and a Certificology of the poster on DELNET and a Certificology of the posterior of the p	cate of Membership. Please kindly let us know if
With kind rega	urds,	Yours sincerely,
		Sangeeta Kaul
Mrs. Yewale Vaisha! Librarian Arvind Gavali Colle	i Chandrakant ge of Engineering	
At. Panmalewadi, Po Dist. Satara-415015	st Varye	
Maharashtra	Encl: (1) Receipt no. 55492 ((2) DELNET Poster (1) DEL NET Brochur	dated 27.2.2019 of ₹ 13,570
	(4) Certificate of Men	bership ARVING GIVALI DO LESS OF ENDINEERING
		Charles Showing
		Lauran Lar 184

Fig10.4.1.e. DELNET e- Resource subscription 2019-20.

Nen	DELNET/IM-6724/mhAGCE/MEM/2018 Sub: DELNET Member	Fax: 91-11-26741122 E-mail: sangs@delnet.ren.nic.in, sangskaul2003@yahoo.co.in Web: www.delnet.nic.in February 20, 2018
	DELNET/IM-6724/mhAGCE/MEM/2018 Sub: DELNET Member	February 20, 2018
	Sub: DELNET Member	
	Dear Mrs. Chandrakant,	ship Renewal
	We acknowledge with thanks the receipt of ₹ Seventy only-) received through NEFT dated 12.1. Institutional Membership Fee for the period 20.2.2018 15.1.2018 is enclosed for the office records.	3,570/- (₹ Thirteen Thousand Five Hundred 2018 made towards the DELNET Annual to 19.2.2019. The receipt no. 49870 dated
۲	You are requested to access DELNET databate following procedure:	es through the World Wide Web using the
	Web Address: http://www	v.delnet.nic.in
	Click onto DELNET Discovery portal. Si registered with us, you should be able to open the lan us know if you encounter any difficulty.	nce the IP address provided by you is iding page without login prompt. Please let
	Kindly note your ILL Password is "mhageeslil are also welcome to send us the bibliographic sangskaul2003@yahoo.co.in for the resources, which will try our best to locate these resources. Also, a comp databases is available at YouTube. The link is available	" to be used while registering a request. You al references at sangs@delnet.ren.nic.in, are not available in our union catalogues. We lete demo on how to access DELNET online e at DELNET database site.
	I am enclosing a poster on DELNET and a Co know if you wish to get any books on ILL or the journal	artificate of Membership. Please kindly let us articles.
	With kind regards,	
•		Yours singerely, Sangeeta Kaul
	Mrs. Yewale Vaishali Chandrakant	
	Librarian Arvind Gavali College of Engineering At. Panmalewadi, Post Varye Dist. Satara-415015 Maharashtra	
	Encl: (1) Receipt no. 49870 dated 1 (2) DELNET Poster	5.1.2018 of₹ 13,570/-
	(3) DELNET Brochure (4) Certificate of Membershi	,
al		
Librar	2-1-24	ARVIND GAVALI COLLEGE OF ENGINEERING PANMALEWADI (VARYE) SATARA

Fig10.4 e DELNETe Resource Fig10.4 d Fig10.4.1.f. DELNETe -Resource subscription 2018-19.

	Not secure 164.100.247.26/engg.html	DELINEL - HOME X Search Home	O ULLINET
會 D Deve	BELINET Joping Library Network	Access E-Journals	A.
a la ca	Engineering & Technology (860)		
	Automobile Engineering (15)	Chemical Engineering & Technology (46)	_
	Computer Science(160)	Construction & Infrastructure (79)	
	Electrical and Nuclear Engineering(70)	Electronics & Communication Engineering(41)	-
	General & Civil Engineering(115)	Hydraulic Engineering (44)	-
	Industrial Engineering (46)	Manufacturing (25)	-
	Materials(36)	Mechanical Engineering (40)	-
	Military Sciences (23)	Mining and Metallurgy (20)	-
	Technology (General)(65)	Transportation (35)	-
	Engineering & Technology, only TOC		
	Copyright 2022 OELNET-Onveloping Library Network. All	Rights Reserved. DELNET uploads data received from its member. Ithraciae in the fea	
8 3033 DEL	UPCORE I IS not responsible for the confidentiality and acc	uracy of data so presented on this site. Also, DELNET is not responsible for the cont	ents of any Linked Sile listed above.
C 2022, DELN	ET Developing Library Network, JNU Campus, Nelson M	Mandela Marg, Vasant Kunj, New Delhi-110070 Tel. : 91-11-26	74222, 26741302, 26741305
		reserved.	

Fig 10.4.1.g. DELNET e -Resource e Journal details.





Fig10.4.1.i. Students using DELNET e- Resource and e- Journal.

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	0.00 am to 7.50 pm.
Number of library staff	3
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, Technical Magazine, Conference Proceedings, Newspaper, Photocopy, Printing & Scanning Soft copies of University Question papers & Syllabus shared through email Extended reading room facility during exam period Orientation to newly admitted students. Online public access catalogue.

Table B 10.4.1.d Library service details

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.
- 3. 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