



**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 Electronics and Telecommunication Engineering

CRITERION 01	Vision, Mission and Program Educational Objectives	60
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1. VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)**1.1. State the Vision and Mission of the Department and Institute (05)****A. Availability of the Vision and Mission statements of the department****VISION of Institute**

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

MISSION of Institute

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

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

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

VISION of Department

To be one of the leading Electronics and Telecommunication Engineering Department engaged in quality education to solve industrial and social problems.

MISSION of Department

1. To enrich academic competency by imparting quality education.
2. To nurture skills among the students helping them succeed and progress in their personal and professional career.
3. To instill sensitivity towards society and respect for the environment.

1.2. State the Program Educational Objectives (PEOs)**(05)**

The Program Educational Objectives of Electronics & Telecommunication Engineering program is listed below:

PEO 1: The graduates will be able to apply the basic concepts of mathematics, sciences, engineering to solve industrial and societal problems.

PEO 2: The graduates will be able to deal with complex real time problems by applying technical and soft skills.

PEO 3: The graduates will be able to develop awareness towards ethical, societal & environmental issues.

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

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

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

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

Table 1.1: Stakeholders of the Program

Stakeholder	Type	Purpose/relevance	Mode of Publication and dissemination
Management	Internal	<ul style="list-style-type: none"> • Creating a development strategy and a roadmap; human, and financial resources; and developing policies. 	1. Banners for all the visiting and participating stakeholders at meeting/interaction sites. (Entrance to the department, office of the head of department, faculty rooms, laboratories, classrooms, department meeting room/library) 2. The department newsletter, laboratory manuals, faculty course
Faculty and Support Staff	Internal	<ul style="list-style-type: none"> • Implementer (Contributor) of Policies; • Major Contributor in Creating and Implementing Growth Plan; • Responsible with Producing Competent Graduates/Product from the Institution 	
Students	Internal	<ul style="list-style-type: none"> • accountable for building the reputation 	

		and results of the institute.	files, information brochures, event and
Employers	External	<ul style="list-style-type: none"> employing recent college graduates and evaluating their competency and employability 	industrial visit reports, academic diaries, and a book for internal test assessments.
Industry	External	<ul style="list-style-type: none"> both an employer and a participant in initiatives involving industry and academic institutions. 	3. The remarks are made available digitally via the Institute website, emails, social media, screensavers, event presentations, and the CANVA platform.
Alumni	External	<ul style="list-style-type: none"> Capable of connecting professional practice and learning, provides the department/program Committee with pertinent input 	4. The distribution is monitored in both online and offline settings, such as meetings with administrators and stakeholders and introduction programme.
Funding Agencies	External	<ul style="list-style-type: none"> offers financial assistance to the institution and communicates with the department's or program's faculty and principal investigator. 	
Parents	External	<ul style="list-style-type: none"> Perception of the department's or program's assistance in guiding their wards' careers 	
Regulatory/	External	<ul style="list-style-type: none"> establishes guidelines and standards to guarantee quality 	

Accrediting Authorities/Professional bodies		control and improvement	
Society	External	<ul style="list-style-type: none"> from the viewpoint of the institution, offers intangible results 	

Table 1.2: Vision, Mission & PEOs are Published & Disseminated

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

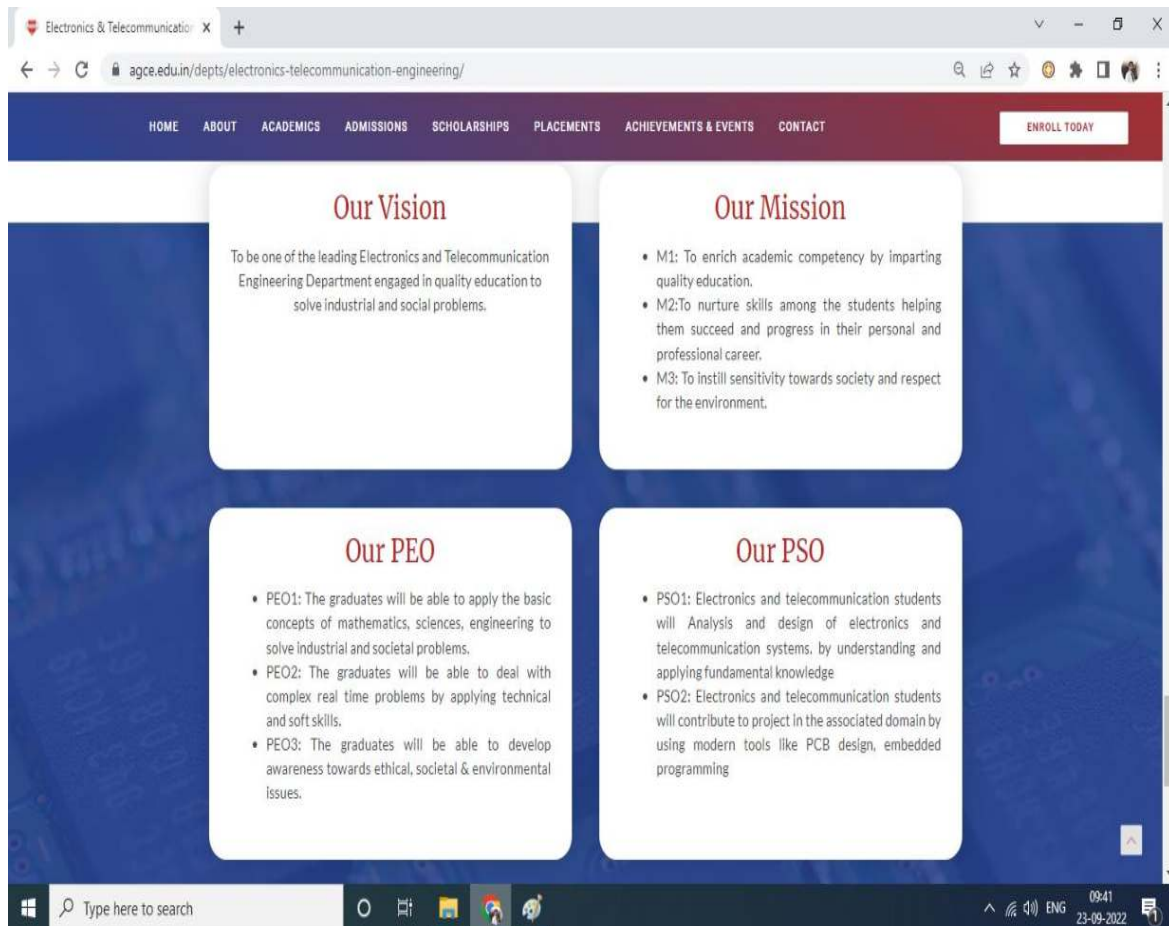
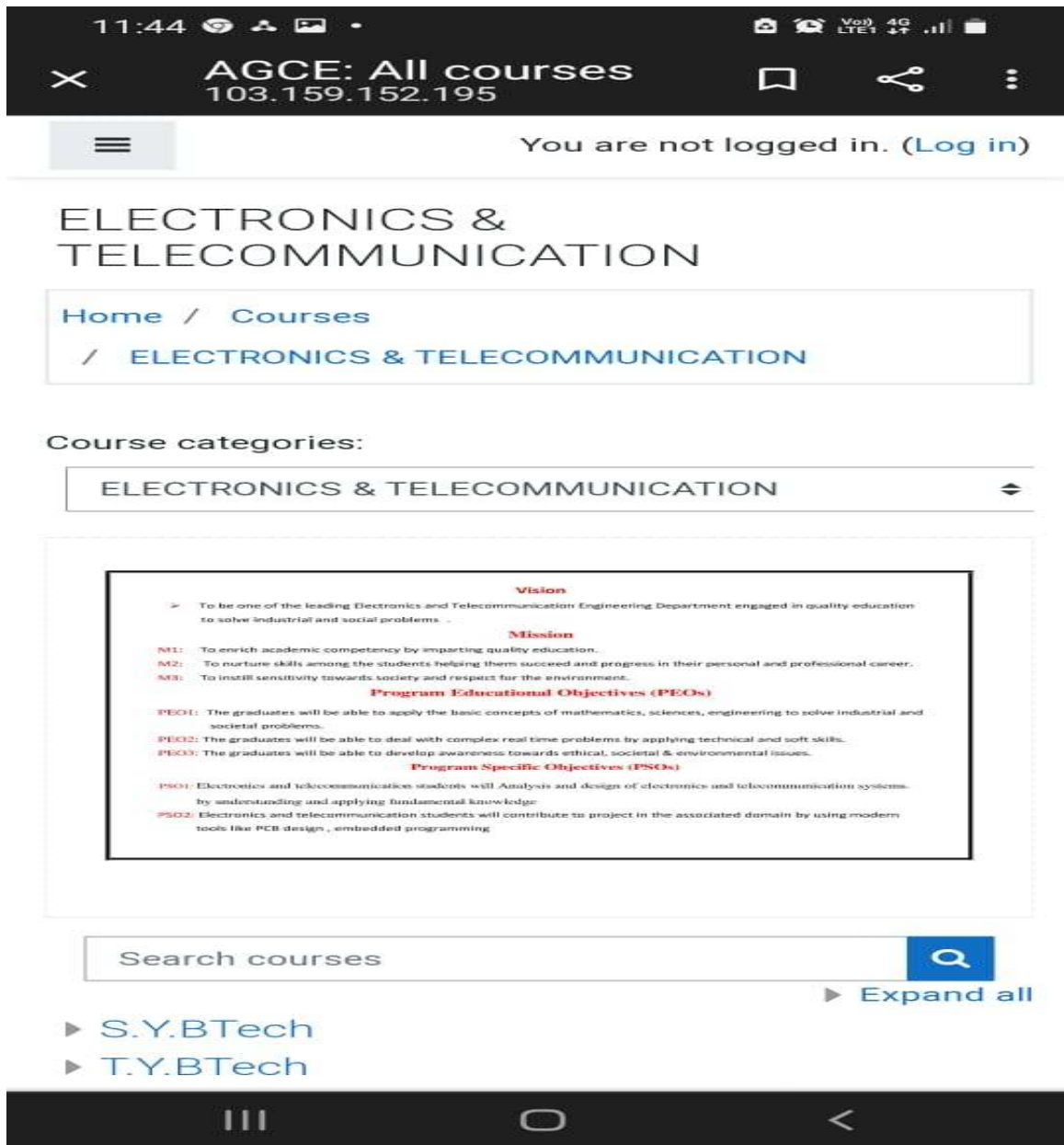


Fig. 1.3a: Screenshot of Vision, Mission and PEOs disseminated on website



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ELECTRONICS & TELECOMMUNICATION

Home / Courses
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Course categories:
ELECTRONICS & TELECOMMUNICATION

Vision

➤ To be one of the leading Electronics and Telecommunication Engineering Department engaged in quality education to solve industrial and social problems .

Mission


M1: To enrich academic competency by imparting quality education.
M2: To nurture skills among the students helping them succeed and progress in their personal and professional career.
M3: To instill sensitivity towards society and respect for the environment.

Program Educational Objectives (PEOs)

PEO1: The graduates will be able to apply the basic concepts of mathematics, sciences, engineering to solve industrial and societal problems.
PEO2: The graduates will be able to deal with complex real time problems by applying technical and soft skills.
PEO3: The graduates will be able to develop awareness towards ethical, societal & environmental issues.

Program Specific Objectives (PSOs)

PSO1: Electronics and telecommunication students will Analysis and design of electronics and telecommunication systems by understanding and applying fundamental knowledge.
PSO2: Electronics and telecommunication students will contribute to project in the associated domain by using modern tools like PCB design , embedded programming

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

1.3 B: Process of Dissemination

Through interactions between stakeholders, which specifically relate to the vision, mission aspects, and PEOs in the development, implementation, and execution of academic programme, the spread of statements is observed.

During the induction programme, the vision, mission aspects, and PEOs serve as a road map for a successful career.

The students are educated about career plans and higher education in accordance with the vision, mission, and PEOs during the guidance and counselling session.

It is noted during administrative meetings that academic plan policies, execution, and monitoring are in line with the vision, mission elements, and PEOs.

The department head, programme coordinator, and course coordinators present the vision and mission at the start of each term and at other points throughout sessions.

During classes, faculty members discuss the significance of the Vision and Mission as well as how they relate to the Program Outcomes with the students.

Every event, including meetings with DAB, parental meetings, and technical and non-technical events, has included a description of the institute's vision, mission, and departmental vision, mission, and programme educational outcomes.

The department head, in collaboration with the programme coordinator, informs the faculty on the significance and applicability of the program's vision and mission in relation to its educational objectives and outcomes.

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

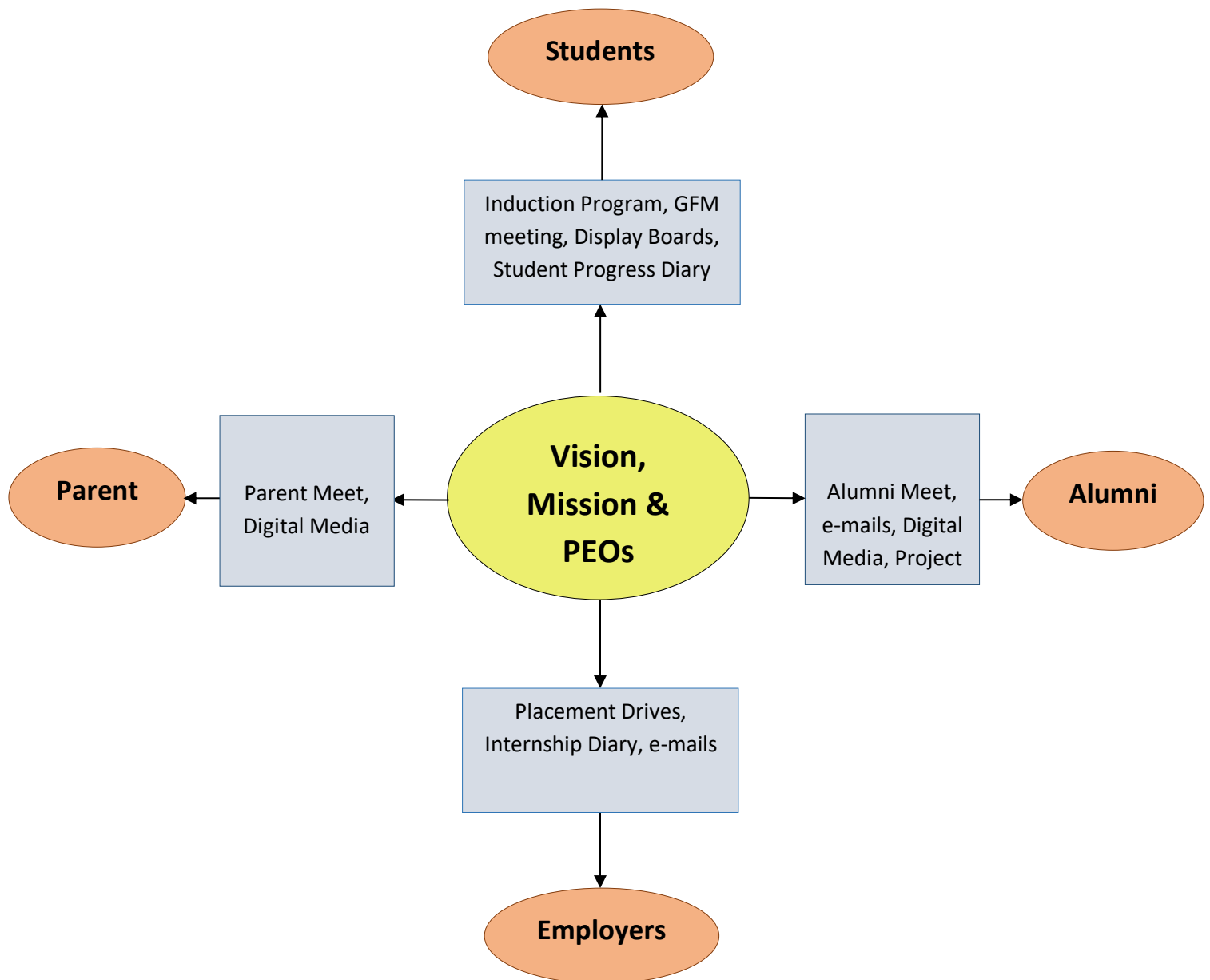


Fig. 1.3c: Awareness of Vision, Mission & PEOs

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

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

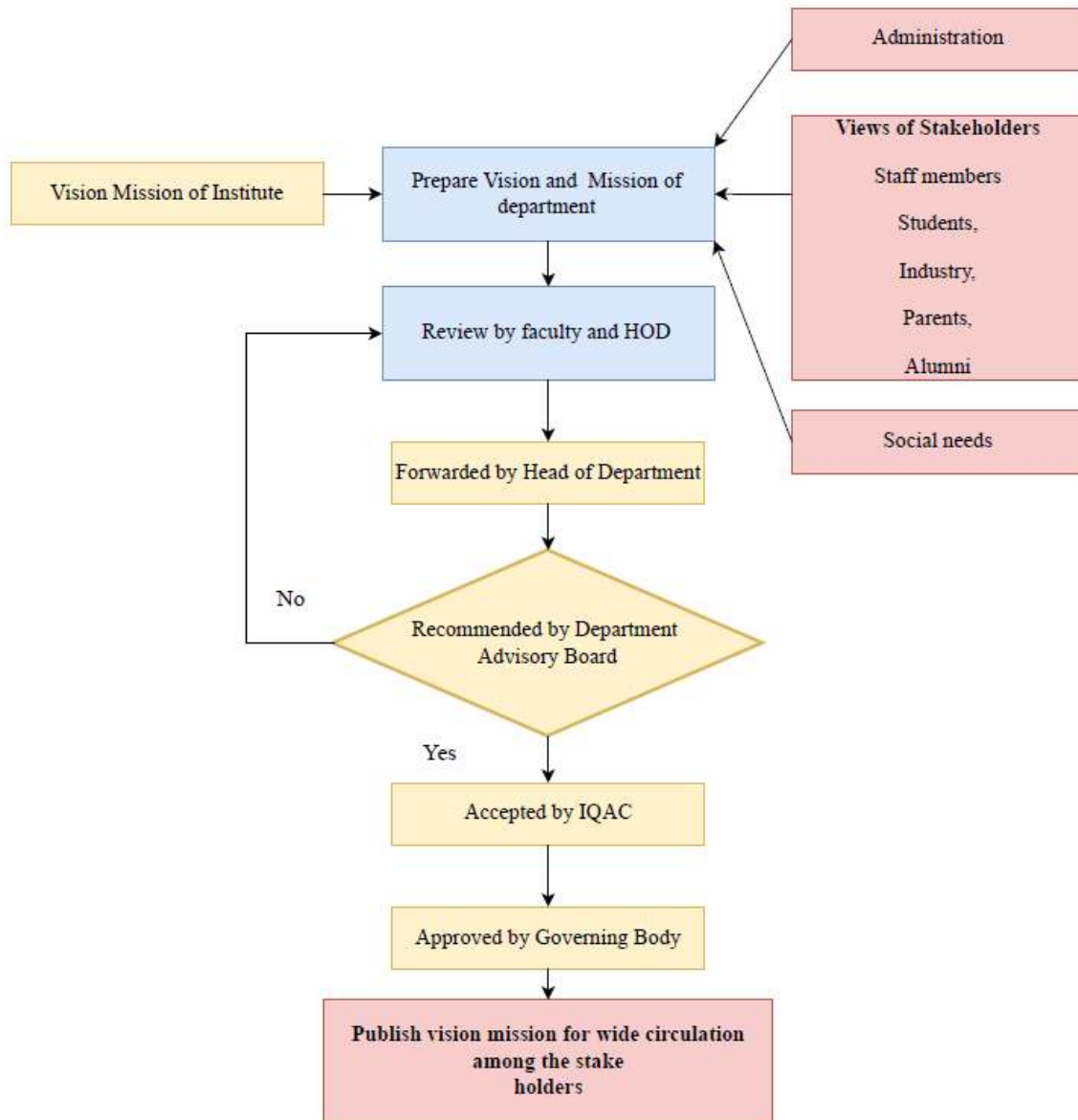


Figure 1.4 a: Process of defining the Vision & Mission of Department

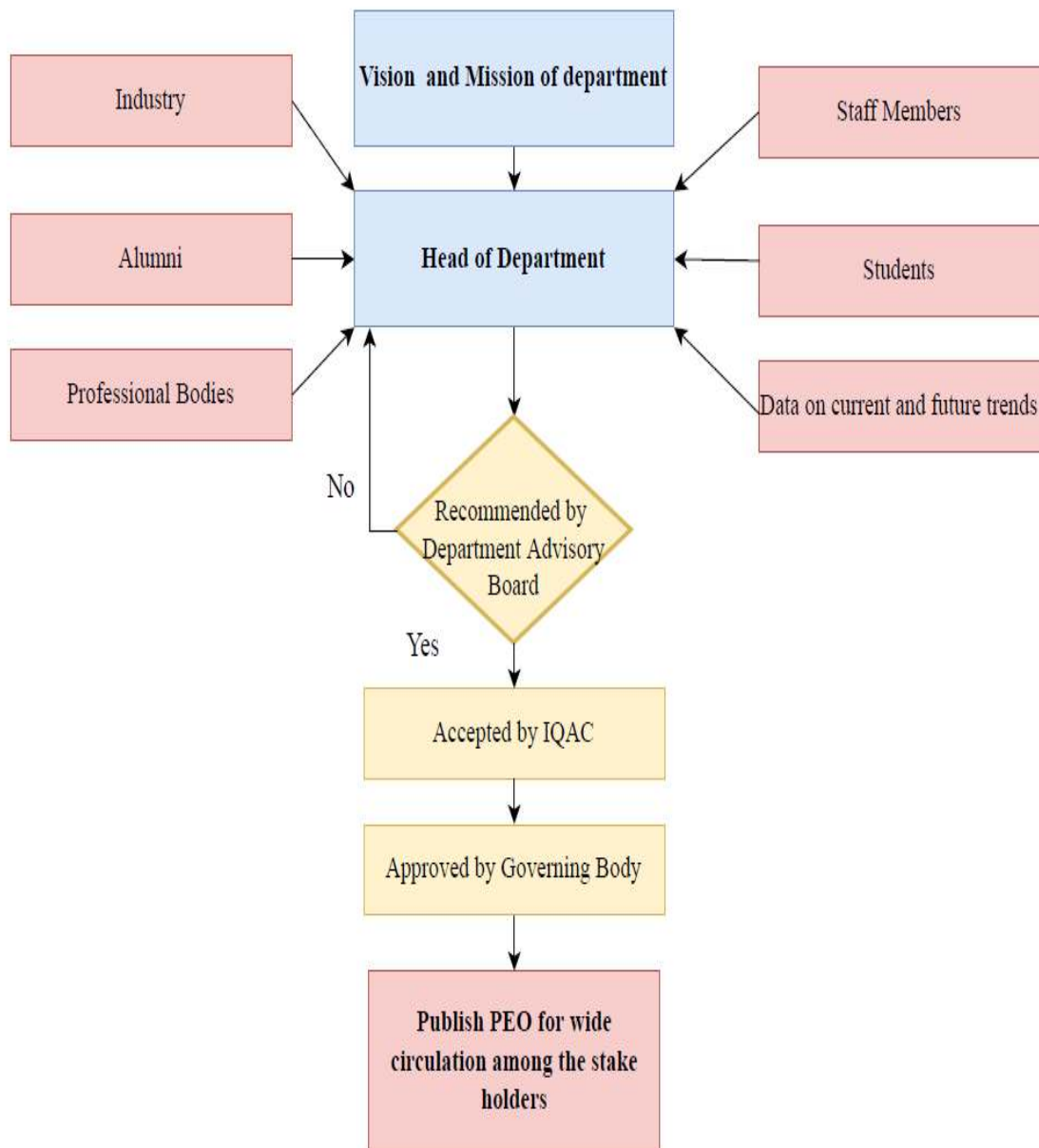
- As indicated in the following Figure 1.4a, the department developed its vision and mission statements through consultation with all of its stakeholders, taking into account both its long-term and short-term objectives as well as societal needs. The department's mission and vision statements were created in the year 2020. The department's Vision and Mission statements can now be reviewed and changed in light of the Graduate Attributes thanks to the new Outcome Based Education (OBE) accreditation procedure.
- While external stake holders include businesses/employers, parents, alumni, professional organizations, etc., internal stake holders include students, faculty members, and others.
- The department's vision and mission have been formulated using the procedures listed below.

Step 1: Based on ongoing input from internal and external stakeholders and in alignment with the vision and goal of the Institute, the head of the department and faculty members draught and manage the department's vision and mission statement.

Step 2: The DAB meeting is where the vision and mission statements are presented and await their advice or suggestions. It flows continuously from the Departmental Advisory Board's final recommendation to the faculty and head of department reviews and vice versa.

Step 3: The IQAC is sent the DAB's recommended vision and mission statements so they can work with the governing body. The governing body has approved it in collaboration with IQAC once it has been recognized by IQAC.

Step 4: The vision and mission statements are finally distributed to internal and external stakeholders via print and digital media.

Process of Defining the Program Educational Outcomes (PEOs) of the Program**Figure 1.4 b: Process of defining PEOs of the program**

- As indicated in figure 1.4 b, the process of identifying PEOs is done in collaboration with the program's vision and mission as well as suggestions from a committee made up of representatives from all internal and external stakeholders. The steps that follow are used to create PEOs.

- Step 1: PEOs made up of students, employees, alumni, business professionals, trade associations, and information on current and upcoming trends were developed by the HoD.
- Step 2: The Departmental Advisory Board (DAB) receives the formulated PEOs for their advice or suggestions. Up until the Departmental Advisory Board makes its final recommendation, it is continuously flowing from the HoD to the DAB and vice versa.
- Step 3: The IQAC is handed the DAB's recommended PEOs statements so that they can work with the governing body in coordination. The governing body has approved it in collaboration with IQAC once it has been recognized by IQAC.
- Step 4: The Program Educational Outcomes (PEOs) statements are finally distributed to internal and external stakeholders through print and digital media.

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)

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

Table 1.5: PEO and Mission Statement Consistency

PEO Statements	M1	M2	M3
The graduates will be able to apply the basic concepts of mathematics, sciences, engineering to solve industrial and societal problems	3	2	1
The graduates will be able to deal with complex real time problems by applying technical and soft skills.	2	3	1
The graduates will be able to develop awareness towards ethical, societal & environmental issues.	1	2	3

	M1	M2	M3	
PEO Statements	M1: To enrich academic competency by imparting quality education	M2: To nurture skills among the students helping them succeed and progress in their personal and professional career.	M3: To instill sensitivity towards society and respect for the environment.	

PEO1: The graduates will be able to apply the basic concepts of mathematics, sciences, engineering to solve industrial and societal problems	3	2	1	M1 substantially correlates with PEO1 as quality education is based on the fundamental concept in Engineering and science where student solve the real-world problems through projects.
				M2 moderately correlates with PEO1 as M2 is strongly associated with skills based on fundamental concepts of mathematics, sciences and engineering
				M3 slightly correlates with PEO1 since it promotes respect towards the society and environment. Hence, there are slight co-relations between PEO1 and M3.

PEO2: The graduates will be able to deal with complex real time problems by applying technical and soft skills.	2	3	1	M1 moderately correlates with PEO2 as it emphasizes on enriching academic competency however the PEO2 focuses on applying technical and soft skills for solving real world problem.
				M2 substantially correlates with PEO2 as it deals with the upbringing of skills among the students to succeed in their career.
				M3 slightly 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: The graduates will be able to develop awareness towards ethical, societal & environmental issues.	1	2	3	M1 slightly correlates with PEO3 as it emphasizes on quality education however the PEO3 focuses on awareness of ethical, societal & environmental issues.
				M2 moderately correlates with PEO3 as it highlights the development of professional skills among the students to serve the society with ethical values.
				M3 substantially correlates with PEO3 as deals with inculcating ethical values, environmental and social responsibilities.

PEOs	Mission Component		
	M1	M2	M3
	To enrich academic competency by imparting quality education.	To nurture skills among the students helping them succeed and progress in their personal and professional career.	To instill sensitivity towards society and respect for the environment.
PEO-1 The graduates will be able to apply the basic concepts of mathematics, sciences, engineering to solve industrial and societal problems.	3 PEO- Apply the basic concepts M- Enrich academic competency	2 PEO- To solve industrial and societal problems M- To nurture skills	1 PEO- To solve industrial and societal problems M- To instill sensitivity towards society
PEO-2 The graduates will be able to deal with complex real time problems by applying technical and soft skills.	2 PEO- Complex real time problems M- Enrich academic competency	3 PEO- Applying technical and soft skills. M-. To nurture skills	1 PEO- To deal with complex real time problems M- To instill sensitivity towards society
PEO-3 The graduates will be able to develop awareness towards ethical, societal & environmental issues	1 PEO- To develop awareness towards ethical issues M- Imparting quality education.	2 PEO- To develop awareness towards ethical issues M- Succeed and progress in their personal and professional career	3 PEO- To develop awareness towards ethical, societal & environmental issues M- To instill sensitivity towards society and respect for the environment

PEOs	Mission Component
<p>PEO-1 The graduates will be able to apply the basic concepts of mathematics, sciences, engineering to solve industrial and societal problems.</p>	<p>M1 - To enrich academic competency by imparting quality education.</p>
	<p>M2 - To nurture skills among the students helping them succeed and progress in their personal and professional career.</p>
	<p>M3 - To instill sensitivity towards society and respect for the environment.</p>
<p>PEO-2 The graduates will be able to deal with complex real time problems by applying technical and soft skills.</p>	<p>M1 - To enrich academic competency by imparting quality education.</p>
	<p>M2 - To nurture skills among the students helping them succeed and progress in their personal and professional career.</p>
	<p>M3 - To instill sensitivity towards society and respect for the environment.</p>
<p>PEO-3 The graduates will be able to develop awareness towards ethical, societal & environmental issues</p>	<p>M1 - To enrich academic competency by imparting quality education.</p>
	<p>M2 - To nurture skills among the students helping them succeed and progress in their personal and professional career.</p>
	<p>M3 - To instill sensitivity towards society and respect for the environment.</p>

CRITERION 02	Program Curriculum & Teaching Learning Process	120
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2.1.1. State the process used to identify the extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any (10)

Arvind Gavali College of Engineering, Satara is affiliated with Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere Maharashtra. Electronics & Telecommunication 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 POs. Faculty from the Electronics & Telecommunication 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.

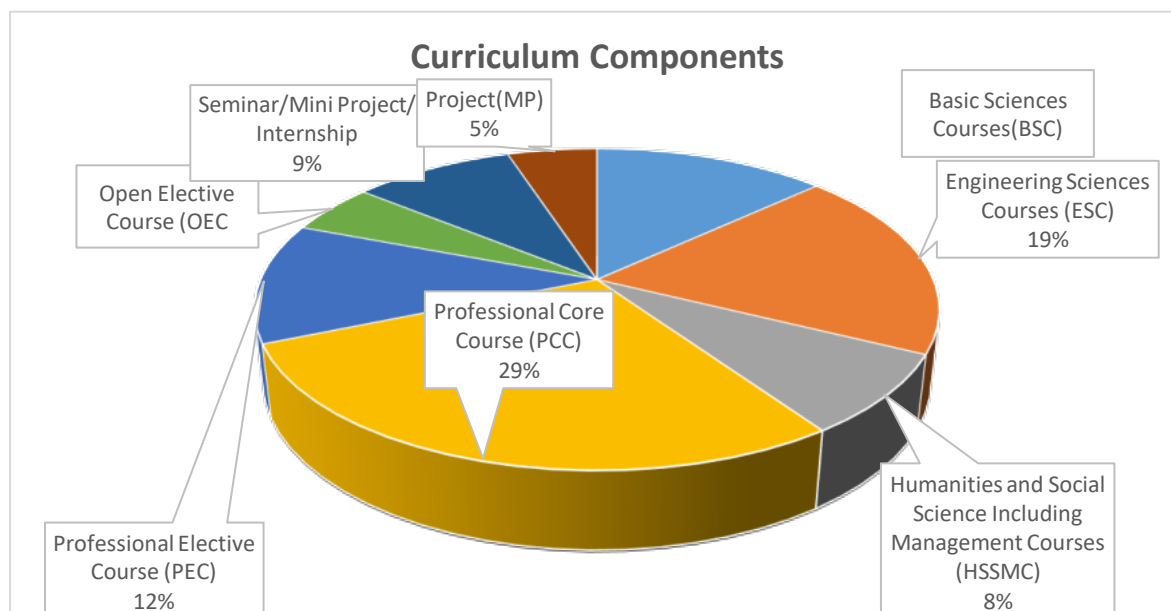


Fig B 2.1.1a Curriculum Components

Table 2.1.1a mapping of curriculum components with PO/ PSOs

Sr. No.	Type of Courses Offered	Number of Subjects Mapped	Number of Credits allotted	Weightage in percentage
1	Basic Science	10	22	14
2	Engineering Science	14	19	19
3	Humanities and Social Science including Management Courses	6	03	8
4	Professional Core Subjects	21	68	28
5	Program Elective	9	28	12
6	Open Elective	4	06	5
7	Mini Project /Major Projects	4	20	5
8	Seminar/ Internship	7	05	9
Total		75	171	100

The institution implements the overall curriculum break up as per DBATU which is for 8 semesters. The curriculum for the Bachelor of Engineering in Electronics & Telecommunication Engineering is given in Table B.2.1.1b

Table B 2.1.1 b University Curriculum Structure

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Semester - I
Group A

Sr. No.	Course Code	Course Title	Weekly Teaching hrs			Evaluation Scheme			Credit
			L	T	P	CA	MSE	ESE	
1	Mandatory	Induction Program	3 weeks duration in the beginning of the semester						
2	BTBS101	Engineering Mathematics – I	3	1	-	20	20	60	4
3	BTBS102	Engineering Physics	3	1	-	20	20	60	4
4	BTES103	Engineering Graphics	2	-	-	20	20	60	2
5	BTHM104	Communication Skills	2	-	-	20	20	60	2
6	BTES105	Energy and Environment Engineering	2	-	-	20	20	60	2
7	BTES106	Basic Civil and Mechanical Engineering	2	-	-	50	-	-	Audit
8	BTBS107L	Engineering Physics Lab	-	-	2	60	-	40	1
9	BTBS108L	Engineering Graphics Lab	-	-	4	60	-	40	2
10	BTHM109L	Communication Skills Lab	-	-	2	60	-	40	1
TOTAL			14	2	8	330	100	420	18

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Semester - II
Group B

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

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B. Tech (Electronics & Telecommunication Engineering) / B. Tech (Electronics Engineering)
Curriculum for Semester III [Second Year]

Sr. No.	Course Code	Course Title	Hours Per Week			Evaluation Scheme			Total Marks	Credits
			L	T	P	MSE	CA	ESE		
1	BTBSC301	Engineering Mathematics-III	3	1	0	20	20	60	100	4
2	BTEXC302	Analog Circuits	2	1	0	20	20	60	100	3
3	BTEXC303	Electronic Devices & Circuits	2	1	0	20	20	60	100	3
4	BTEXC304	Network Analysis	2	1	0	20	20	60	100	3
5	BTEXC305	Digital Logic Design	2	1	0	20	20	60	100	3
6	BTHM3401	Basic Human Rights	2	0	0	--	50	--	50	(Audit)
7	BTEXL307	Analog Circuits Lab	0	0	2	--	60	40	100	1
8	BTEXL308	Electronic Devices & Circuits Lab	0	0	2	--	60	40	100	1
9	BTEXL309	Network Analysis Lab	0	0	2	--	60	40	100	1
10	BTEXL310	Digital Logic Design Lab	0	0	2	--	60	40	100	1
11	BTEXW311	Electronics Workshop	0	0	2	--	60	40	100	1
12	BTES211P	Field Training/ Internship/Industrial Training Evaluation	--	--	--	--	--	50	50	1
Total			13	05	10	100	450	550	1100	22

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B. Tech (Electronics & Telecommunication Engineering) / B. Tech (Electronics Engineering)
Curriculum for Semester IV [Second Year]

Sr. No.	Course Code	Course Title	Hours Per Week			Evaluation Scheme			Total Marks	Credits
			L	T	P	MSE	CA	ESE		
1	BTEXC401	Electrical Machines and Instruments	2	1	0	20	20	60	100	3
2	BTEXC402	Analog Communication Engineering	2	1	0	20	20	60	100	3
3	BTEXC403	Microprocessor	2	1	0	20	20	60	100	3
4	BTEXC404	Signals and Systems	2	1	0	20	20	60	100	3
5	BTID405	Product Design Engineering	1	0	2	30	30	40	100	2
6	BTBSC406	Numerical Methods and Computer Programming	2	1	0	20	20	60	100	3
7	BTEXL407	Electrical Machines and Instruments Lab	0	0	2	--	60	40	100	1
8	BTEXL408	Analog Communication Engineering Lab	0	0	2	--	60	40	100	1
9	BTEXL409	Microprocessor Lab	0	0	2	--	60	40	100	1
10	BTEXL410	Signals and Systems Lab	0	0	2	--	60	40	100	1
11	BTHML411	Soft-Skill Development	0	0	2	--	60	40	100	1

Dr. Babasaheb Ambedkar Technological University, Lonere.

12	BTEXF412	Field Training/ Internship/Industrial Training (Minimum 4 weeks which can be completed partially in third semester or fourth semester or in at one time)	--	--	--	--	--	--	--	1* (To be evaluated in V th Semester)
Total			11	05	12	130	430	540	1100	22

Semester V										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
PCC 5	BTETC501	Electromagnetic Field Theory	3	1	-	20	20	60	100	4
PCC 6	BTETC502	Digital Signal Processing	3	1	-	20	20	60	100	4
PCC 7	BTETC503	Analog Communication	3	1	-	20	20	60	100	4
PEC 2	BTETPE504	Group A	3	1	-	20	20	60	100	4
OEC 1	BTETOE505	Group B	3	1	-	20	20	60	100	4
LC	BTETL506	Digital Signal Processing Lab & Analog Communication Lab	-	-	4	60	-	40	100	2
Project	BTETM507	Mini Project – 1	-	-	4	60	-	40	100	2
Internship	BTETP408	Internship – 2 Evaluation	-	-	-	-	-	-	-	Audit
Total			15	5	8	220	100	380	700	24

Semester VI										
Course Category	Course Code	Course Title	Teaching Scheme			Evaluation Scheme				Credit
			L	T	P	CA	MSE	ESE	Total	
PCC 8	BTETC601	Antennas and Wave Propagation	3	1	-	20	20	60	100	4
PCC 9	BTETC602	Digital Communication	3	1	-	20	20	60	100	4
PEC 3	BTETPE603	Group A	3	1	-	20	20	60	100	4
OEC 2	BTETOE604	Group B	3	1	-	20	20	60	100	4
HSSMC	BTHM605	Employability and Skill Development	3	-	-	20	20	60	100	3
LC	BTETL606	Digital Communication Lab & Professional Elective Course 3 Lab	-	-	4	60	-	40	100	2
Project	BTETM607	Mini Project – 2	-	-	4	60	-	40	100	2
Internship	BTETP608 (Internship – 3)	Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in third semester and fourth semester or in at one time).	-	-	-	-	-	-	-	Audit (evaluation will be in VII Sem.)
Total			15	4	8	220	100	380	700	23

BSC = Basic Science Course, ESC = Engineering Science Course, PCC = Professional Core Course, PEC = Professional Elective Course, OEC = Open Elective Course, LC = Laboratory Course, HSSMC = Humanities and Social Science including Management Courses.

Semester V

BTETPE504 Program Elective 2 (Group A)	BTETOE505 Open Elective 1 (Group B)
(A) Analog Circuits	(A) Control System Engineering
(B) Embedded System Design	(B) Artificial Intelligence and Machine learning
(C) Digital System Design	(C) Optimization Techniques
(D) Automotive Electronics	(D) Project Management and Operation Research
(E) Mixed Signal Design	(E) Augmented, Virtual and Mixed Reality
(F) Power Electronics	(F) Open Source Technologies

Semester VI

BTETPE603 Program Elective 3 (Group A)	BTETOE604 Open Elective 2 (Group B)
(A) Microprocessors and Microcontrollers	(A) IoT and Industry 4.0
(B) CMOS Design	(B) Deep Learning
(C) Nano Electronics	(C) Computer Network
(D) Advanced Digital Signal Processing	(D) Industrial Drives and Control
(E) Information Theory and Coding	(E) Robotics Design
(F) VLSI Signal Processing	(F) Patents and IPR
(G) VLSI Design & Technology	(G) Acoustic Engineering

B. Tech (Electronics & Telecommunication Engineering)**Proposed Curriculum for Semester VII [Final Year]**

Sr. No.	Course Code	Type of Course	Course Title	Hours Per Week			Evaluation Scheme			Total Marks	Credits
				L	T	P	MSE	CA	ESE		
1	BTETC701	Professional Core Course 1	Digital Communication	3	0	0	20	20	60	100	3
2	BTETPE702	Program Elective 3	Group A	3	0	0	20	20	60	100	3
3	BTETPE703	Program Elective 4	Group B	3	0	0	20	20	60	100	3
4	BTETPE704	Program Elective 5	Group C	3	0	0	20	20	60	100	3
5	BTHM705	Humanities & Social Science including Management Courses	Financial Management	2	0	0	20	20	60	100	2
6	BTETL706	Program Elective 3 Lab		0	0	2	--	30	20	50	1
7	BTETL707	Program Elective 4 Lab		0	0	2	--	30	20	50	1
8	BTETL708	Program Elective 5 Lab		0	0	2	--	30	20	50	1
9	BTETP709	Project Part I		0	0	8	--	50	50	100	4
10	BTETF611	Field Training/ Internship/Industrial Training Evaluation		--	--	--	--	--	50	50	1
Total				14	0	14	100	240	460	800	22

Program Elective- 5 (Group A)	Program Elective- 5 (Group B)	Program Elective- 5 (Group C)
(A) Microwave Theory & Techniques	(A) Embedded System Design	(A) Consumer Electronics
(B) RF Circuit Design	(B) Artificial Intelligence Deep learning	(B) Analog Integrated Circuit Design
(C) Satellite Communication	(C) VLSI Design & Technology	(C) Soft Computing
(D) Fiber Optic Communication	(D) Data Compression & Encryption	(D) Advance Industrial Automation-1
(E) Wireless Sensor Networks	(E) Big Data Analytics	(E) Mechatronics
(F) Mobile Computing	(F) Cyber Security	(F) Electronics in Smart City

B. Tech (Electronics & Telecommunication Engineering)

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

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	MSE	CA	ESE	Total	
		<ul style="list-style-type: none"> • Introduction to Internet of Things • Computer Vision and Image Processing • Biomedical Signal Processing • Industrial Automation and Control • Cryptography and Network Security • Digital IC Design 	3	-	--	20*	20*	60*	100	3
		<ul style="list-style-type: none"> • Cryptography and Network Security • Digital IC Design <p># Student to opt any two subjects from above list</p>	3	-	--	20*	20*	60*	100	3
BTMEP803	Project Part-II or Internship*		--	--	30	--	--	100	150	15
Total			--	--				220	350	21

The department has 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 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

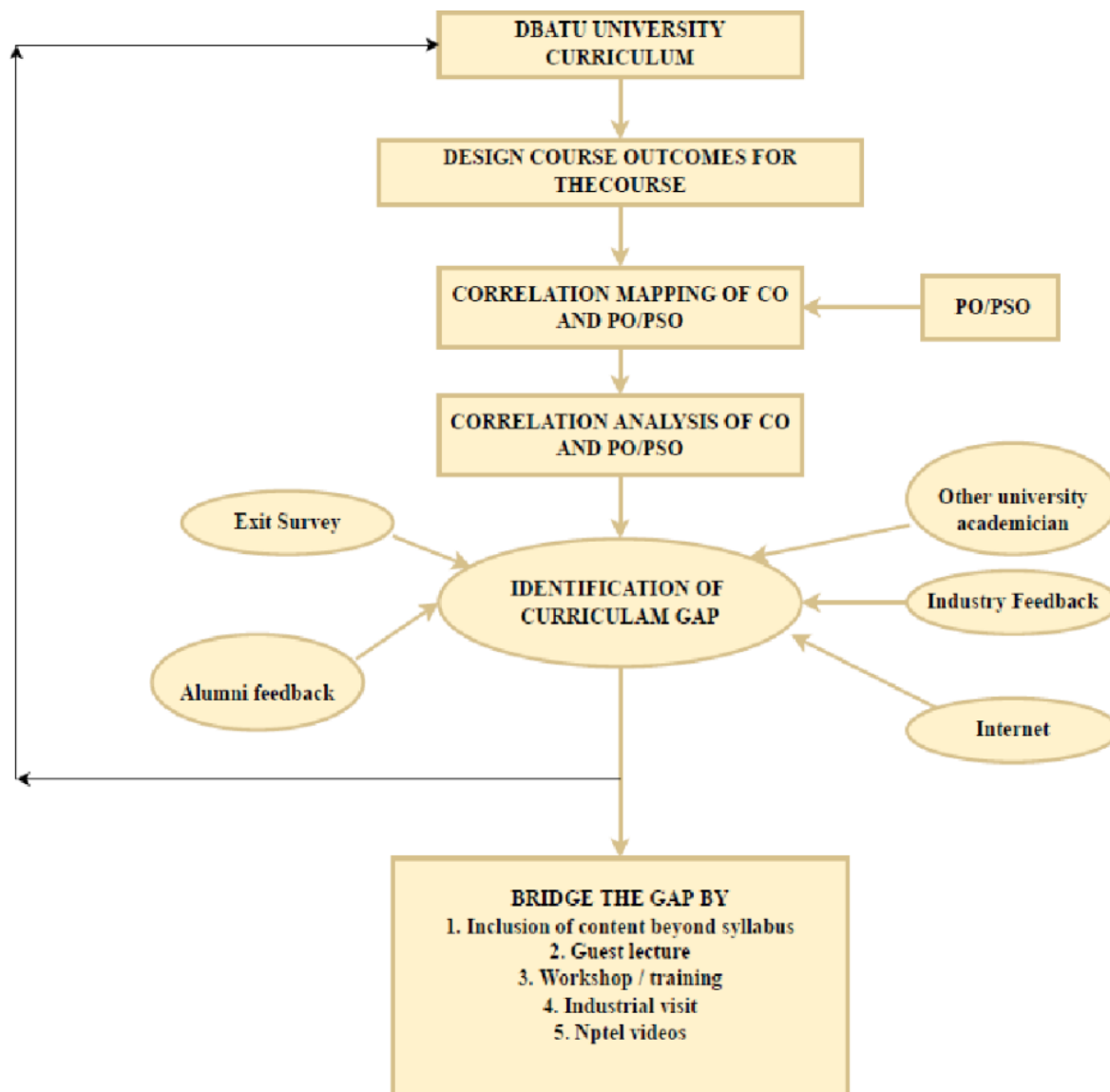


Fig. 2.1.1 b Process to Identify Curriculum Gaps

1. The University publishes the curriculum annually in June if changed or updated. The curriculum provides the syllabus of each course.
2. Faculty members 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.
3. The plan is duly signed by the Head of the Department. The plan ensures the coverage of the complete syllabus before the end of the semester

4. For each course or subject, a course file is prepared by the concerned faculty member. The Co-relation matrix of CO with PO/ PSOs is also designed and analyzed Program Evaluation and Review Committee.
5. 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.
6. The data collected is then presented in front of the Program Evaluation and Review Committee. The gaps are discussed in the PERC meeting. To bridge gaps, seminars, workshops, guest lectures, industrial visits, etc. are occasionally arranged by our department/ institute as per convenience, and content beyond the syllabus is prepared accordingly.

Table B.2.1.1.C mapping of the courses to Program Outcomes

Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
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F.Y. B Tech Part-I Sem-I

BTBS101	Engineering Mathematics- I	Y	Y	Y	Y		Y					Y	Y	Y	Y
BTBS102	Engineering Physics	Y	Y	Y	Y		Y	Y					Y	Y	Y
BTES103	Engineering Graphics	Y	Y	Y	Y	Y					Y		Y	Y	
BTHM104	Communication Skills	Y				Y	Y		Y		Y		Y		Y
BTES105	Energy and Environment Engineering	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	Y
BTES108L	Engineering Graphics Lab	Y	Y	Y	Y	Y				Y	Y		Y	Y	
BTHM109L	Communication Skills Lab.	Y				Y	Y		Y		Y		Y		

F. Y. B Tech Part-II Sem-II

Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTBS201	Engineering Mathematics-II	Y	Y	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			Y	
BTES205	Workshop Practices	Y				Y				Y	Y			Y	Y
Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTES206	Basic Electrical and Electronics Engineering	Y					Y	Y						Y	Y
BTES207L	Computer	Y	Y	Y						Y	Y			Y	

	Programming Lab														
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
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).	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y

S.Y. B Tech Part-I Sem-III

Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTBSC301	Engineering Mathematics – III	Y	Y										Y	Y	
BTEXC302	Analog Circuits	Y	Y	Y	Y								Y	Y	
BTEXC303	Electronic Devices & Circuits	Y	Y	Y	Y	Y							Y	Y	
BTEXC304	Network Analysis	Y	Y		Y	Y							Y	Y	
BTEXC305	Digital Logic Design	Y	Y	Y	Y					Y	Y	Y		Y	Y
BTHM3401	Basic Human Rights	Y	Y							Y	Y	Y		Y	Y
BTEXL307	Analog Circuits Lab	Y	Y	Y						Y	Y	Y	Y		Y
BTEXL308	Electronic Devices & Circuits Lab	Y	Y	Y		Y				Y	Y			Y	Y
BTEXL309	Network Analysis Lab	Y	Y	Y		Y				Y	Y			Y	Y
Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTEXW311	Electronics Workshop	Y	Y	Y		Y				Y	Y			Y	Y
BTEXL310	Digital Logic Design Lab	Y	Y	Y		Y				Y	Y			Y	Y

BTES211P	Internship – 1 Evaluation	Y	Y	Y						Y	Y	Y	Y		Y
S.Y. B Tech Part-II Sem-IV															
Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTEXC401	Electrical Machines and Instruments	Y	Y	Y	Y									Y	
BTEXC402	Analog Communication Engineering	Y	Y	Y	Y	Y								Y	
BTEXC403	Microprocessor						Y	Y	Y	Y	Y		Y		
BTEXC404	Signals and Systems	Y	Y	Y	Y					Y				Y	
BTID405	Product Design Engineering	Y	Y	Y		Y						Y		Y	Y
BTBSC406	Numerical Methods and Computer Programming	Y	Y	Y	Y				Y	Y	Y			Y	
BTEXL407	Electrical Machines and Instruments Lab	Y	Y	Y						Y	Y	Y	Y		Y
BTEXL408	Analog Communication Engineering Lab	Y	Y	Y		Y				Y	Y			Y	Y
BTEXL409	Microprocessor Lab	Y	Y	Y		Y				Y	Y			Y	Y
BTEXL410	Signals and Systems Lab	Y	Y	Y		Y				Y	Y			Y	Y
BTHML411	Soft-Skill Development	Y	Y	Y		Y				Y	Y			Y	Y
BTEXF412 (Internship – 2)	Field Training /Internship/Industrial Training (minimum of 4 weeks which can be completed partially in the third semester and fourth semester or at one time).	Y	Y			Y				Y	Y	Y	Y		Y
T.Y. Btech Part-I (Sem- V)															
Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTETC501	Electromagnetic Field Theory	Y	Y	Y	Y				Y	Y	Y			Y	

BTETC502	Digital Signal Processing	Y	Y	Y	Y				Y		Y			Y	
BTETC503	Analog Communication	Y	Y	Y		Y			Y	Y			Y	Y	
BTETPE504	Analog Circuits	Y	Y	Y		Y			Y	Y				Y	
BTETOE604	Control System Engineering	Y	Y	Y		Y			Y	Y				Y	
BTETL506	Digital Signal Processing Lab & Analog Communication Lab	Y	Y	Y	Y									Y	
BTETM507	Mini Project – 1	Y	Y	Y	Y					Y	Y	Y	Y		Y
BTETP408	Internship – 2 Evaluation	Y	Y		Y	Y				Y	Y	Y	Y		Y

T.Y. Btech Part-II (Sem- VI)

Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTETC601	Antennas and Wave Propagation	Y	Y	Y		Y			Y				Y	Y	Y
BTETC602	Digital Communication	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y
BTETPE603	Microprocessors and Microcontrollers	Y	Y	Y	Y	Y		Y	Y		Y		Y	Y	Y
BTETOE604	Computer Network	Y	Y	Y		Y		Y	Y		Y		Y	Y	
BTHM605	Employability and Skill Development	Y	Y	Y		Y		Y	Y		Y		Y		Y
BTETL606	Digital Communication Lab & Professional Elective Course 3 Lab	Y					Y		Y	Y	Y	Y	Y	Y	
Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTETM607	Mini Project – 2	Y	Y	Y		Y				Y	Y	Y			Y
BTETL608	Program Elective 2 Lab	Y	Y	Y		Y				Y	Y	Y			Y

BTETP608	Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in third semester and fourth semester or in at one time).	Y	Y	Y	Y	Y				Y	Y	Y	Y		Y
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Final Year B.Tech (Sem- VII)

Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTETC701	Digital Communication	Y	Y	Y	Y	Y		Y		Y	Y		Y	Y	
BTETPE702 - Group A	Wireless Sensor Networks	Y	Y	Y		Y	Y	Y		Y	Y		Y	Y	
BTETPE703 - Group B	Embedded System Design	Y	Y	Y		Y	Y			Y	Y		Y	Y	
BTETPE704 - Group C	Mechatronics	Y	Y	Y		Y	Y			Y	Y			Y	
BTHM705	Financial Management		Y	Y		Y		Y	Y				Y		Y
BTEEL706	Wireless Sensor Networks -Program Elective 3 Lab	Y	Y			Y	Y		Y	Y	Y	Y	Y	Y	Y
BTEEL707	Embedded System Design -Program Elective 4 Lab	Y	Y			Y	Y		Y	Y	Y	Y		Y	Y
BTEEL708	Mechatronics - Program Elective 5 Lab	Y	Y			Y	Y		Y	Y	Y	Y	Y	Y	Y
BTETP709	Project Part I	Y	Y	Y		Y	Y	Y		Y	Y	Y	Y		Y
BTETF611	Field Training/ Internship/Industrial Training Evaluation	Y	Y	Y	Y	Y				Y	Y	Y	Y		Y

Final Year BTech (Sem- VIII)

Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTETPE802 A	Introduction to Internet of Things	Y	Y	Y		Y				Y	Y		Y	Y	

BTETPE802 D	Industrial Automation and Control	Y	Y	Y	Y	Y	Y					Y	Y	Y	
BTMEP803	Project Part-II	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y
	Total (75)	72	67	57	29	45	27	20	23	48	51	25	38	51	40
	Percentage	96	89.33	76	38.66	60	36	26.6	30.66	64	68	33.33	50.66	68	53.33
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2

Curricular Gaps

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

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

Sr. No.	PO's	Description
1	PO4	Investigation
2	PO6	Energy & Society
3	PO7	Environment & sustainability
4	PO8	Ethics
5	PO11	Project Management & Finance

Following are the curriculum gap identified:

Academic Year 2022-23

Table B.2.1.1 e Identified Curricular Gaps

Sr. No	Relevant Course/Area	Curriculum Gap Identified	Relevance to PO & PSO
1	Electronics Devices and Circuits	Performance Parameter of Transformers	PO2 PO3 PO4 PSO1
2	Electromagnetic Field Theory	Static Magnetic Fields	PO1 PO2 PO3 PO4 PO11 PSO1
3	Python Programming	Object-Oriented Programming OOP in Python	PO1 PO2 PO12 PSO1
4	Internet of Things	Device Design ,Cloud Computing	PO1 PO2 PO3 PO4 PSO1 PSO2

Academic Year 2021-22

Table B.2.1.1 f Identified Curricular Gaps

Sr. No	Relevant Course/Area	Curriculum Gap Identified	Relevance to PO & PSO
1	Probability Theory and Random Processes	Probability in EMIII	PO2 PO3 PSO1
2	Embedded System	CAN Network Protocol	PO1 PO2 PO3 PO5 PO11 PO12
3	Digital Communication	Digital Communication (5G to 7G)	PO1 PO2 PO12
4	Control System Engineering	Roll of control system & instrumentation engineering	PO1 PO8 PO9 PO11

Academic Year 2020-21

Table B.2.1.1 g Identified Curricular Gaps

Sr. No	Relevant Course/Area	Curriculum Gap Identified	Relevance to PO & PSO
1	Numerical Methods and Computer Programming	C++ programming	PO4 PSO2
2	Digital Signal Processing	Signaling Concept	PO1 PO2 PO3 PSO2
3	Computer Network & Cloud Computing	Cloud Computing	PO1 PO5 PO9 PSO1

Academic Year 2019-2020

Table B.2.1.1 h Identified Curricular Gaps

Sr. No	Relevant Course/Area	Curriculum Gap Identified (Content Beyond Syllabus)	Relevance to PO & PSO
1	Electronics Devices & Circuits	Basic Fundamentals of Electronics	PO1 PO2
2	Electrical Machines and Instruments	Measurement & Instrument	PO1 PO5 PSO1
3	Python Programming	Library	PO5 PSO2
4	Microcontroller and its Applications	Microprocessor 8085/8086	PO1, PO2, PO3 PO5 PO11 PO12
5	Employability & Skill Development	Communication & Presentation Skill	PO6 PO10 PO11 PSO2
6	Digital Communication	Analog Communication Engineering	PO1 PO11 PSO1 PSO2
7	Mechatronics	Analog Circuits	PO1 PO9 PSO2

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

Table B.2.1.2.a Content discussed beyond the syllabus to fill the curriculum gap						
CAY (2022-23)						
Sr. No.	Gap	Action Taken	Date- Month- Year	Resource Person With Designatio n	No of Students	Relevance to POs, PSOs
1	Recent Trends & Industry Readiness	Industrial Visit	10-03-2023	Intulux Electronics Pvt.Ltd.Pune	34	PO1 PO2 PSO5 PSO12 PSO1 PSO2
2	To enhance programming skills	Expert Lecture Series on Core Java Programing	14-11-2022 To 13-12-2023	Mr. Sanket Jambhure	44	PO1 PO8 PO9, PO11
3	Technical skills and team management skills	University Level Project Competition - Aavishkar	18-11-2022	Mr. S.V Khobragade	45	PO1 PO PO4 PO5 PO6 PO9 PO11 PSO2
4	Team building and management skills	Guest lecture on Management Studies	14-12-2022	Dr. Pranjali Ankule	35	PO1 PO8 PO9 PO11

Sr. No.	Gap	Action Taken	Date- Month- Year	Resource Person With Designati on	No of Students	Relevance to POs, PSOs
5	Recent Trends & Industry Readiness	Industrial Tour	17-12-2022	IIT Bombay	45	PO1 PO2 PSO5 PSO12 PSO1 PSO2
6	To enhance communication skills	Corporate Grooming	21-02-2023 to 23-02-2023	Mr. George	28	PO1 PO8 PO9 PO10
7	To enhance Software development skills	Opportunities in IT Industry & Japan	3-05-2023	Mr. Bipin Kadam	25	PO1, PO5, PO8, PO9, PO11,
8	To promote research activities	International Conference	13-05-2023 to 14-05-2023	Dr. Zehila Selamoglu	30	PO1, PO3, PO4, PO5, PO6, PO9, PO11, PSO2
9	To enhance recent technology and development skills	Guest Lecture on IoT Physical devices Arduiono & Rasberry Pi	22-05-2023	Dr. Ratnmala Bhimanpall ewar	38	PO1, PO2, PSO5, PSO12 PSO1 PSO2
10	Recent Trends & Industry Readiness	Five Days workshop on web designing and development	14-06-2023 to 19-06-2023	Mr. Nikhil Kambale Code Culture Pune	45	PO1, PO2, PSO5, PSO12 PSO1 PSO2

Sr. No.	Gap	Action Taken	Date- Month- Year	Resource Person With Designati o n	No of Students	Relevance to POs, PSOs
11	Awareness on Higher Education	Expert Lecture on GRE TOEFL	31/3/ 2023	Mr.Amol Anil Kawade Sr.BA ETS India	45	PO1, PO2, PSO5, PSO12 PSO1 PSO2
12	Awareness of Recent Trends & Industry Readiness	Expert Lecture on Electronic Field theory	14-05- 2023	Mr.Pravin Mohite Apron Tech Pvt.Ltd.	49	PO1, PO8, PO9, PO10

Table B.2.1.2.b Content discussed beyond the syllabus to fill the curriculum gap**CAY m1(2021-22)**

Sr. No.	Gap	Action Taken	Date-Month-Year	Resource Person With Designation	No of Students	Relevance to POs, PSOs
1	Technical Skills in line with the requirements of industry	One day Python programming Workshop	28/11/2021	Miss Snehal Kasurde	50	PO2 PO3 PO4 PSO1
2	Practical significance of subject	One day network Security workshop	16/12/2021	Mr. Prashant Patil	35	PO2 PO3 PO5 PO6 PSO2
3	Recent Trends & Industry Readiness	Industrial Visit Nebula Technologies, Pune.	3/2/2022	Mr. Raghunath Bade	34	PO1 PO2 PSO5 PSO12 PSO1 PSO2
4	Industry Readiness	Industrial Visit to Rayat Science & Innovation Activity Center	27/4/2022	Mr. Sachin Sonule	42	PO8 PO10 PO12 PSO2 PSO3
5	To Enhance communication skills	Soft skill program Conducted by Rubicon	16-22/9/2022	Mr.G George	38	PO10
6	Dimensional Modeling	One day Workshop on Business Intelligence	13/11/2021	Mr. Suyog Patil	37	PO3 PO5 PSO1

**Table B.2.1.2.c Content discussed beyond the syllabus to fill the curriculum gap
CAYm2(2020-21)**

Sr. No.	Gap	Action Taken	Date- Month- Year	Resource Person With Designation	No of Students	Relevanc e to Pos, PSOs
1	CAN Network Protocol	Lecture on Introduction of CAN Protocol	8/12/202 0	Miss.Mahamuni P N	60	PO1 PO2 PO3 PO5 PO11 PO12
2	IOT applicati on transport methods	Online Guest lecture on IOT	20/03/21	Mr. Akit Jain	52	PO3 PO5 PSO 1
3	Wireless Digital Communica tion on(5G to 7G)	Online Guest Lecture on Wireless Communica tion	5/12/202 0	Mr.Jagtap D B	45	PO1 PO2 PO12
4	control system & instrumentati on engineering	Industry talk on Imaging at health care industries	26/4/202 1	Mr.Ranjith C V	40	PO1 PO8 PO9 PO11

Table B.2.1.2.d Content discussed beyond the syllabus to fill the curriculum gap**CAY m3(2019-20)**

Sr. No.	Gap	Action Taken	Date- Month- Year	Resource Person With Designation	No. of Students	Relevance to PO & PSO
1	Soft skill & Personality Development	Personality Development Program by Rubicon Skill Development Pvt Ltd	10/09/2019	Mr.Ayush Shriwastv	48	PO8 PO12 PSO1 PSO2
2	IoT Cloud, Types, Applications, Advantages & Limitations	Guest lecture on IoT	07/06/2020	Mrs.Kirti Wanjale Associate Professor	35	PO2 PO3 PO4 PSO2
3	Industry Essential Skills	Guest lecture on culture of MNC	10/2/2020	C.Jorge	42	PO2 PO3 PO5 PO6 PSO2
4	Industry Essential Skills	Resume building and interview technique workshop	23/01/2020	Mr. Amit Bote	42	PO2 PO3 PO5 PO6 PSO2
5	Industry Essential Skills	Guest Lecture on Cloud & Its Communication with Hardware	15/07/2020	COE Mr.Akshay Jadhav	45	PO6 PO8 PO9 PSO1
6	Industry Essential Skills	Guest Lecture on Difference between Embedded & IoT Devices	13/7/2020	Mr.Nilesh Bhandare Software Engineer	45	PO6 PO8 PO9 PSO1

7	Soft skill & Personality Development	AVISHKAR 2019-20 Poster Presentation Competition	07/02/2020	Mr.Rahul Modhe	37	PO8 PO12 PSO2
8	Awareness on Higher Education	Orientation Program on GATE by ACE Academy	12/03/2020	Mr.Abhay Chaugule	28	PO12, PSO1
9	Awareness on Higher Education	Visit Center for Yashvantrao Chavan Center of Invention, Innovation & Incubation (YC-CIII)"	13/03/2020	Mr. Amol Dhole Project Head, YC-III ,Tata Technology , Satara	40	PO2 PO3 PO5 PO6 PSO2
10	Industry Essential Skills	Industrial Visit to ISTC,Kharadi	4/10/2019	Mr.Vikas Sir (Sat com Engineer ISTC,Kharadi)	22	PO2 PO3 PO5 PO6 PSO2

2.2. Teaching - Learning Processes (100)**2.2.1. Describe Processes followed to improve quality of Teaching & Learning (25)****A. Adherence to Academic Calendar (03)**

- 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
- University, Institute, Department academic calendar is shown below

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Dr. Bhagwan F. Jogi Registrar डॉ. भगवान फ. जोशी कुलसचिव

Dated: 12/ 08/2022

Academic Calendar 2022-23 (Odd Semester) (Engineering)

Sl. No.	Activity	Commencement Date	Concluding Date	Total Days	Engineering
1	Admissions: B.Tech. Second, Third and Final Year, M.Tech. Second year.	September 01, 2022	September 10, 2022	10	UG and PG
2	Commencement of Classes of Second, Third and Final Year	September 01, 2022	December 19, 2022	110	UG and PG
3	Dissertation Examination of the Academic Year 2021-2022	September 01, 2022	September 10, 2022	10	PG
4	Mid-Semester Examinations	October 12, 2022	October 21, 2022	09	UG and PG
5	Submission of Dissertation Proposal to University	October 18, 2022	October 21, 2022	04	PG
6	Display of Mid-Semester Examination Marks	October 28, 2022	October 31, 2022	04	UG and PG
7	Secretary of Master's Level Dissertation Work Proposal	November 01, 2022	November 03, 2022	03	PG
8	Exam Form Filling for Regular & Supplementary Examinations	November 01, 2022	November 08, 2022	08	UG and PG
9	Exam Form Filling for Regular & Supplementary Examinations with Late Fee	November 09, 2022	November 15, 2022	07	UG and PG
10	University Tech Fest 2021	November 17, 2022	November 19, 2022	03	UG and PG
11	End of Classes	-	December 19, 2022	110	UG and PG
12	Practical/Project/Seminar Examinations	December 20, 2022	December 23, 2022	04	UG and PG
13	Uploading Internal, Mid Semester, Practical, Project and Seminar marks on University portal	December 22, 2022	December 24, 2022	03	UG and PG
14	End Semester Regular & Supplementary Examination	December 26, 2022	January 21, 2023	26	UG and PG
15	Internship/Industrial Training*				
16	Vacation	January 1, 2023	January 20, 2023	20	Faculty and Staff

डॉ. बाबासाहेब आंबेडकर तंत्रशास्त्र विद्यापीठ, लोणेरे
Dr. Babasaheb Ambedkar Technological University, Lonere
 (Established under Act No XXIX of 2014 by Government of Maharashtra)
 विद्यापीठ, लोणे-राजपूर-४०२ १०३ (महाराष्ट्र) Vidyavihar, Lonere - Rajgad 402 103 (Maharashtra)
 Tel: (02140) 275142 Student Helpline : 02140-275212

Dr. Bhagwan F. Jogi Registrar डॉ. भगवान फ. जोशी कुलसचिव

Dated: 25 / 03 /2022

Academic Calendar Semester-II Revised (AY 2022-2023)

Sr. No.	Activity	Commencement Date	Concluding Date	Level
1	Commencement of Classes	1 st April 2023	20 th June 2023	UG
2	Mid Semester Examination	8 th May 2023	12 th May 2023	UG
3	End of Classes	-	20 th June 2023	UG
4	End Semester Examination	23 rd June 2023	30 th June 2023	UG
5	Practical Examination	1 st July 2023	10 th July 2023	UG
6	Result Declaration	-	30 th July 2023	UG
7	Commencement of Classes for Next semester	1 st August 2023		UG
Holidays	18 Feb – Mahashivratri 19 Feb – Chatrapati Shivaji Maharaj Jayanti 7 March – Dhulivandan 22 March – Gudi Padwa 30 March – Ram Navami 4 April – Mahavir Jayanti 7 April – Good Friday		14 April – Dr Babasaheb Ambedkar Jayanti 22 April – Ramzan Eid 1 May – Maharashtra Day 5 May – Buddha Pournima 29 June – Bakari Eid	

1) All Sundays to be made working except public holidays.
 2) Institute may allot additional lectures than prescribed to cover the syllabus.

Dr. B. F. Jogi Registrar
 Dr. Babasaheb Ambedkar Technological University, Lonere
 Tel: (Mongosi, Dist. Rajgad, Maharashtra)

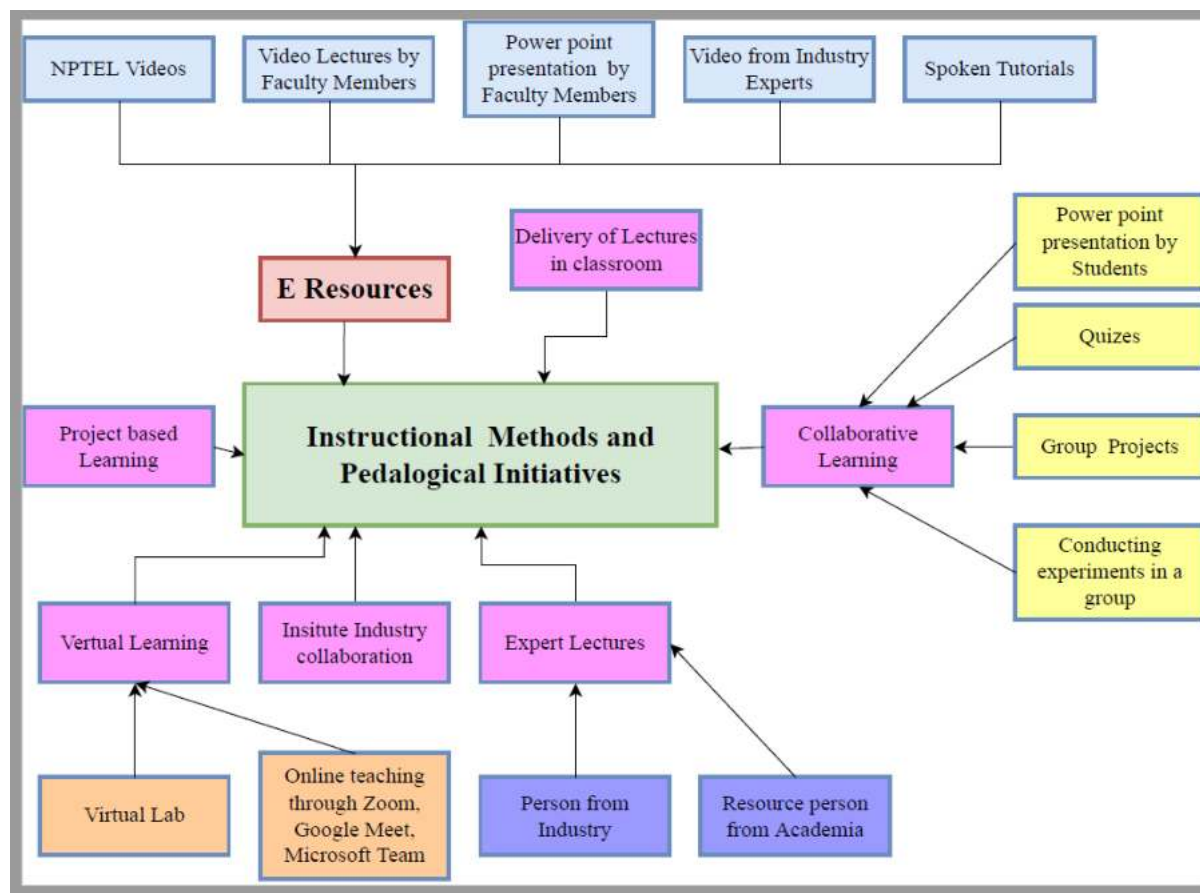
Copy submitted for information: Office of Hon'ble Vice-Chancellor
 Copy to:
 1. All heads of departments
 2. Affiliated institutes
 3. Academic Section
 4. Controller of Examinations

Web Site : www.dbatu.ac.in E-mail: registrar@dbatu.ac.in

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

**Samarth Educational Trust's
Arvind Gavali College of Engineering, Satara
Academic Calendar 2022-23
Department of Electronics and Telecommunication
Term-I**

November 2022							1 Oct Sat	Commencement of Classes and Introduction to Track Semesters I, Track Semesters II and Final Year (M.Tech Second Year)
Week	SUN	MON	TUE	WED	THU	FRI	SAT	1 Oct Sat
1								1 Oct Sat
2	1	2	3	4	5	6	7	1 Oct Sat
3	8	9	10	11	12	13	14	1 Oct Sat
4	15	16	17	18	19	20	21	1 Oct Sat
5	22	23	24	25	26	27	28	1 Oct Sat
6	29	30						1 Oct Sat
7	1	2	3	4	5	6	7	1 Oct Sat
8	8	9	10	11	12	13	14	1 Oct Sat
9	15	16	17	18	19	20	21	1 Oct Sat
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11	29	30						1 Oct Sat
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13	8	9	10	11	12	13	14	1 Oct Sat
14	15	16	17	18	19	20	21	1 Oct Sat
15	22	23	24	25	26	27	28	1 Oct Sat
16	29	30						1 Oct Sat
17	1	2	3	4	5	6	7	1 Oct Sat
18	8	9	10	11	12	13	14	1 Oct Sat
19	15	16	17	18	19	20	21	1 Oct Sat
20	22	23	24	25	26	27	28	1 Oct Sat
21	29	30						1 Oct Sat
22	1	2	3	4	5	6	7	1 Oct Sat
23	8	9	10	11	12	13	14	1 Oct Sat
24	15	16	17	18	19	20	21	1 Oct Sat
25	22	23	24	25	26	27	28	1 Oct Sat
26	29	30						1 Oct Sat
27	1	2	3	4	5	6	7	1 Oct Sat
28	8	9	10	11	12	13	14	1 Oct Sat
29	15	16	17	18	19	20	21	1 Oct Sat
30	22	23	24	25	26	27	28	1 Oct Sat
31	29	30						1 Oct Sat
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33	8	9	10	11	12	13	14	1 Oct Sat
34	15	16	17	18	19	20	21	1 Oct Sat
35	22	23	24	25	26	27	28	1 Oct Sat
36	29	30						1 Oct Sat
37	1	2	3	4	5	6	7	1 Oct Sat
38	8	9	10	11	12	13	14	1 Oct Sat
39	15	16	17	18	19	20	21	1 Oct Sat
40	22	23	24	25	26	27	28	1 Oct Sat
41	29	30						1 Oct Sat
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43	8	9	10	11	12	13	14	1 Oct Sat
44	15	16	17	18	19	20	21	1 Oct Sat
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46	29	30						1 Oct Sat
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105	22	23	24	25	26	27	28	1 Oct Sat
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123	8	9	10	11	12	13	14	1 Oct Sat
124	15	16	17	18	19	20	21	1 Oct Sat
125	22	23	24	25	26	27	28	1 Oct Sat
126	29	30						1 Oct Sat
127	1	2	3	4	5	6	7	1 Oct Sat
128	8	9	10	11	12	13	14	1 Oct Sat
129	15	16	17	18	19	20	21	1 Oct Sat
130	22	23	24	25	26	27	28	1 Oct Sat
131	29	30						1 Oct Sat
132	1	2	3	4	5	6	7	1 Oct Sat
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141	29	30						1 Oct Sat
142	1	2	3	4	5	6	7	1 Oct Sat
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145	22	23	24	25	26	27	28	1 Oct Sat
146	29	30						1 Oct Sat
147	1	2	3	4	5	6	7	1 Oct Sat
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149	15	16	17	18	19	20	21	1 Oct Sat
150	22	23	24	25	26	27	28	1 Oct Sat
151	29	30						1 Oct Sat
152	1	2	3	4	5	6	7	1 Oct Sat
153	8	9	10	11	12	13	14	1 Oct Sat
154	15	16	17	18	19	20	21	1 Oct Sat
155	22	23	24	25	26	27	28	1 Oct Sat
156	29	30						1 Oct Sat
157	1	2	3	4	5	6	7	1 Oct Sat
158	8	9	10	11	12	13	14	1 Oct Sat
159	15	16	17	18	19	20	21	1 Oct Sat
160	22	23	24	25	26	27		

B. Use of various instructional methods and pedagogical initiatives**(03)****Fig. 2.2.1 d 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-NPTEL Local Chapter

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Manage College and SPOC Profile

College Profile SPOC Profile Req Letter Ack Letter

College Profile

College Address

GAT NO. 247,PANMALEWADI, VARYE

SATARA

MAHARASHTRA

Contact No: 8482875175

Alternate No: 8975981500

College Id : 521

Y. MULLA SAMINA
ARVIND GAVALI COLLEGE
OF ENGINEERING

SPOC Timeline

SPOC Conference
Support Request

L.C. Profile Changes
Request

B.2.2.1e.: Swayam NPTEL Local Chapter

Collaborative Learning:

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

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

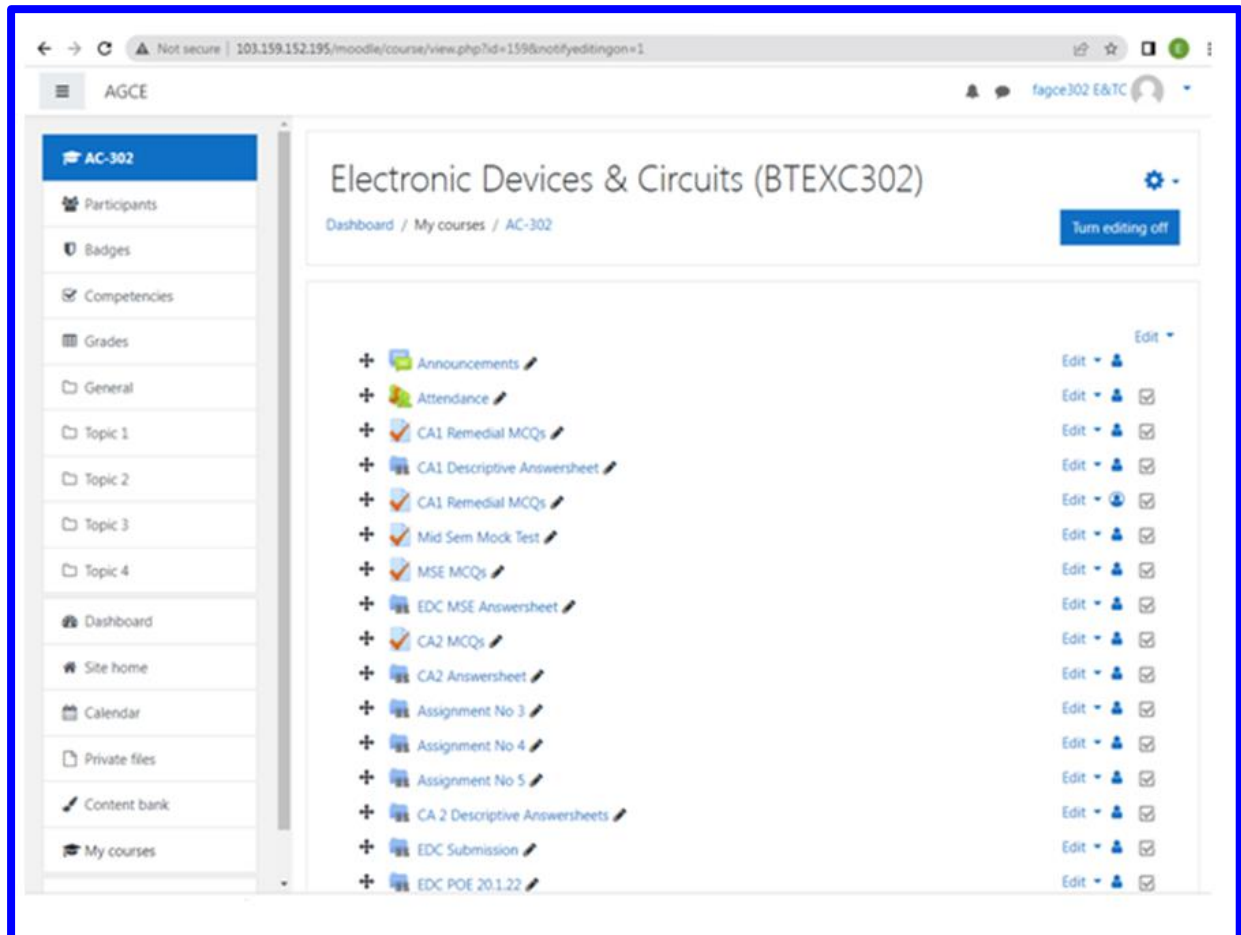


Fig. B.2.2.1f.: MOODLE Web

Project Based Learning:

- During the period of study, many real time projects are given to the students on the latest technologies and they are guided by faculty members. In the 7 and 8 semesters, a final year project is developed by a group of students. For some academic courses, students have been encouraged to do some projects

Expert Lectures:

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

Virtual Learning:

- Virtual labs: Faculty members use virtual labs of different IITs to conduct some difficult experiments of the respective labs. Instruction manuals about conduction of experiments are given in virtual labs, students follow these instruction materials to complete the experiments.
- There is no need to install latest software's in the labs as different software's and simulators are available in virtual labs.

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 labs online. During lockdown period faculty members taken all classes online. Some faculty members also run their own created video lectures, NPTEL and YouTube videos during online lectures using MS teams, Google meet and zoom.

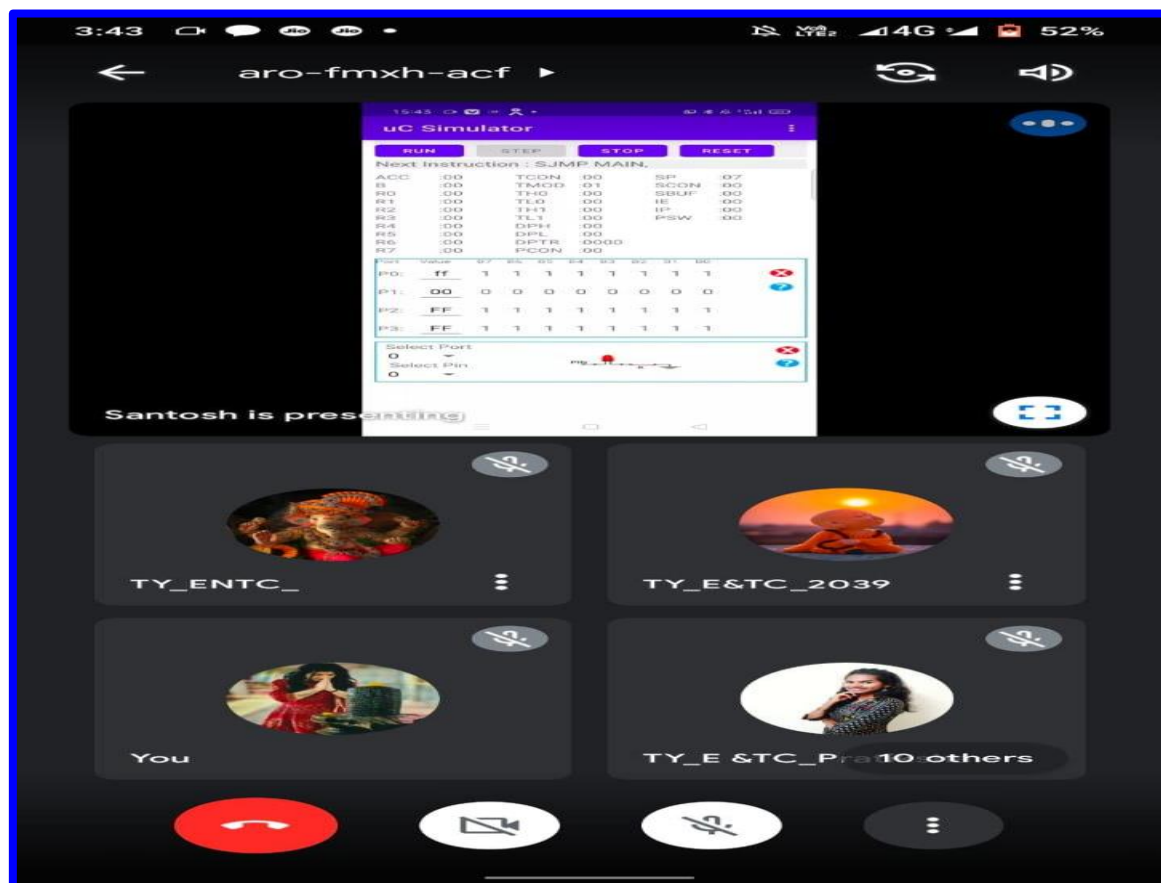


Fig. B.2.2.1 g: Online Learning on Google Meet

C. Methodologies to support weak students and encourage bright students (04)

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.

 <p>SAMARTH EDUCATIONAL TRUST ARVIND GAVALI COLLEGE OF ENGINEERING, Satara.</p> <p>NAAC Accredited Panmalewadi, Varye, Tal. & Dist. - Satara-415 015</p> <p>Approved by AICTE, Govt. of Maha. & Affiliated to DBATU Lonere</p> <p>INSTITUTE CODE: 6545</p> <p>Email- agceenggsatara@gmail.com</p> <p>Website : www.agce.edu.in</p> <p>ENGINEERING</p>  <p>PROGRESS REPORT DIARY</p> <p>Engg : 9957100100 Poly : 9069700100</p>	<p>PERSONAL DETAILS (2022-23)</p> <p>Name of Student :- <u>Nikam Prerana B.</u></p> <p>Address :- <u>At: Post Chindhawali</u> <u>Tal: Wai Dist: Satara.</u></p> <p>Student Mobile No:- <u>9325526936</u></p> <p>Parent Mobile No:- <u>7775919136</u></p> <p>Parents Occupation:- <u>Farmer.</u></p> <p>E-mail:- <u>nikam.prerana.2909@gmail.com</u></p> <p>Branch :- <u>ENTC.</u></p> <p>Blood Group:- <u>B⁺</u></p> <p>Class :- <u>TY.</u></p> <p>Roll No:- <u>2065451372016</u></p> <p>GFM Name :- <u>Jyoti D. B.</u></p> <p>GFM Mob No:- <u>9561042122</u></p>  <p>Note: • Students having attendance more than 75% are eligible for Institute Scholarship. • Laptop / Tablets are allowed during practical for academic purpose.</p>
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SWOC Analysis		NOVEMBER // Academic Calendar ,Term - I	
Strength 1) Leadership 2) Flexibility 3) Creativity 4) Typing skill 5) Time management skill	Weakness 1) Insecure 2) no able to say no. 3) 4) 5)	Suggestion 1) Gas / Package detection system - <i>Adhav</i> 2) Air pollution monitoring system - <i>Adhav</i> 3) Arduino based Automatic password type - <i>Adhav</i> 4) Distance measurement system - <i>Adhav</i> 5) Object Recognition system - <i>Adhav</i>	
Opportunities 1) more familiar with english 2) 3) Happy to work with 4) 5) plane ahead	Challenges 1) Good job in company 2) 3) Clear P.H.D 4) Clear B.Tech 5)	1 st Saturday GFM Signature Visit at Rachana Exhibition - <i>Adhav</i> 2) Technosty solar system - <i>Adhav</i> 3 rd Saturday GFM Signature	
GFM Remark: <i>ok</i> <i>Adhav</i> Sign.			

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

SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA
 NAAC Accredited

**Remedial Classes For
 FYBTECH AY 2022-23**

- Remedial classes for the students have been planned in the timetable.
- Remedial Classes will conducted from 14 Nov 2022 to 28 Feb 2023 .
- Weekly 2Hrs of Classroom Coaching, practice sessions and doubt solving was done during semester I.
- All doubts of students were cleared by the subject teacher.
- Attendance was maintained for the same.

Kute AMC *Ad* HOD *Adhav* Principal




Fig. B.2.2.1 i: Notice of Remedial Classes

Dr. Babasaheb Ambedkar Technological University, Lonere Arvind Gavali College of Engineering, Satara REMEDIAL CLASSES AY 2022-2023 Time Table (FYBTech)							
Sr. No	Date	Time	Department	Class	Subject & Code	Remedial Class	Name of Faculty
1	16-11-2022	1:10-2:30	Core Sci & Engrg.	FYBTech(II)	ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
2	16-11-2022	3:30-4:30			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
3	23-11-2022	3:30-4:30			ENGG. PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
4	25-11-2022	3:30-4:30			ENGG. PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
5	30-11-2022	3:30-4:30			ENGG. GRAPHICS (BTES103)	Class Rm.No.102	Mr. Tarabe P.M.
6	02-12-2022	1:10-2:10			ENGG. GRAPHICS (BTES103)	Class Rm.No.102	Mr. Tarabe P.M.
9	07-12-2022	3:30-4:30			COMM SKILL (BTHM 104)	Class Rm.No.102	Dr. Jadhav N.R.
10	09-12-2022	2:10-3:10			COMM SKILL (BTHM 104)	Class Rm.No.102	Dr. Jadhav N.R.
11	14-12-2022	1:10-2:10			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
12	14-12-2022	3:30-4:30			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
13	21-12-2022	3:30-4:30			ENGG. PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
14	23-12-2022	3:30-4:30			ENGG. PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
15	28-12-2022	3:30-4:30			ENGG. GRAPHICS (BTES103)	Class Rm.No.102	Mr. Tarabe P.M.
16	30-12-2022	1:10-2:10			ENGG. GRAPHICS (BTES103)	Class Rm.No.102	Mr. Tarabe P.M.
19	04-01-2023	3:30-4:30			COMM SKILL (BTHM 104)	Class Rm.No.102	Dr. Jadhav N.R.
20	06-01-2023	2:10-3:10			COMM SKILL (BTHM 104)	Class Rm.No.102	Dr. Jadhav N.R.
21	11-01-2023	1:10-2:10			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
22	11-01-2023	3:30-4:30			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
23	18-01-2023	3:30-4:30			ENGG. PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
24	20-01-2023	3:30-4:30			ENGG. PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
25	25-01-2023	3:30-4:30			ENGG. GRAPHICS (BTES103)	Class Rm.No.102	Mr. Tarabe P.M.
26	27-01-2023	1:10-2:10			ENGG. GRAPHICS (BTES103)	Class Rm.No.102	Mr. Tarabe P.M.
27	01-02-2023	3:30-4:30			COMM SKILL (BTHM 104)	Class Rm.No.102	Dr. Jadhav N.R.
28	03-02-2023	2:10-3:10			COMM SKILL (BTHM 104)	Class Rm.No.102	Dr. Jadhav N.R.
29	08-02-2023	1:10-2:10			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
30	08-02-2023	3:30-4:30			ENGG. MATHS-I (BTBS 101)	Class Rm.No.102	Mrs.Kasture A.D.
31	15-02-2023	3:30-4:30			ENGG. PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.
32	17-02-2023	3:30-4:30			ENGG. PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.

Fig. B.2.2.1 j: 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 available to bright students.

This enables the bright students:

- Update themselves with the latest tools and technologies
- Demonstrate critical thinking and take up innovative projects
- 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 Downloads Fee waiver Bulk Payment Mentors NPTEL stars Logout

Jul-Dec 2020 Enrollment details

Excel Print Search:

S.No	Name	Email Id	Course Id	CourseName	College Roll Number	Mobile Number	City	Profession	Qualification	Degree	Department	Study Year	Motivation	Timeline
1	SHINDE NISHA KALIDAS	001nshashinde@gmail.com	noc20-ee98	Introduction to Embedded System Design		+91 96652 31193	SATARA	student	bachelor-4yr	be	Electronics and Communication Engineering			Jul-Dec 2020
7	Aryan Bhoite	aryan.bhoite50@gmail.com	noc20-ee70	Digital Circuits	1965451372047	+91 99617 61415	SATARA	student	bachelor-4yr	btech	Electronics and Communication Engineering	1		Jul-Dec 2020
9	Tejarsi Shivaji Bandgar	bandgar.tejarsi2000@gmail.com	noc20-ee70	Digital Circuits		+91 95037 54112	SATARA	student	diploma	be	Electronics Engineering	2		Jul-Dec 2020
11	Vansha Chavan	chavanvansha3339@gmail.com	noc20-ee90	Control systems		+91 91567 63915	SATARA	student	bachelor-3yr	btech	Electronics and Communication Engineering	2		Jul-Dec 2020



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NPTEL Online Certification

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This certificate is awarded to
KENJALE GAURI ANANDRAO
 for successfully completing the course

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with a consolidated score of **65** %

Online Assignments	20.38/25	Proctored Exam	45/75
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Total number of candidates certified in this course: **14770**

Jan-Apr 2023
(12 week course)



Prof. Debjani Chakraborty
 Coordinator, NPTEL
 IIT Kharagpur



Indian Institute of Technology Kharagpur



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Roll No: NPTEL23CS51564600208 To validate the certificate  No. of credits recommended: 3 or 4

Department announces every year the “Best outgoing student” of the program. Selection is carried out based on one’s continuous quality performance in all sorts of activities which

include curricular, extracurricular, internships, competitions, innovative projects undertaken and completed, MOOC courses studied, and university marks, following table shows the last three years' best outgoing students.

Table B.2.2.1a: Best outgoing student award

Sr. No.	Name of Student	Academic Year
1	Shinde Monika Ankush	2022-23
2	Chavan Varsha Kashinath	2021-22
3	Mali Bhagyashri Rangunath	2020-21
4	Shinde Prajakta Rajaram	2019-20

D. Quality of classroom teaching (Observation in a Class)

(03)

- 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 Google Apps.
- 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.
- In order to keep students' interest throughout lectures, professors employ brainteasers, quizzes, and engaging movies and PowerPoints linked to the subject.
- Various educational efforts and instructional techniques are used to



Fig. B.2.2.1 k.: Student's learning on Intelligent Interactive Panel

E. Conduct of experiments:

All labs of Electronics & Telecommunication Engineering department are equipped with the enough number of electronics equipments, computers with essential software.

1. The practical sessions are conducted batch-wise
2. Consumable Material like wires, connectors, components, breadboard are provided through Departmental store.
3. All laboratory experiments have accompanying lab manuals.
4. Prior to the lab session, students are urged to read up on the theory underlying the experiments and the steps necessary to carry them out.
5. A concerned professor explains how the experiment was conducted.
6. It is suggested that students consult the lab manuals for assistance.
7. A faculty member supervises and assists each student while they undertake experiments.
8. The laboratory performance record is to be submitted by the students for evaluation.
9. Internal marks are given according to the experiment's understanding, neatness, and timely journal submission.



Fig. B.2.2.1 I.: Laboratory Session

F. Continuous Assessment in the laboratory


(03)

Laboratory Evaluation:

Continuous assessment system is implemented for assessment of laboratory work. Student perform experiment in lab as per demonstrated by the course instructor. Then assessment is done on the basis of

1. Timely Submission
2. Neatness
3. Understanding

Following is laboratory work assessment sheet.



SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING **AGCE**
 Panmalewadi, Varye, Tal. & Dist.-Satara - 415 015
 Approved by AICTE, New Delhi, Recognised by Govt. of Maharashtra,
 Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere.

Continuous Assessment Sheet (CAS)

Name of Candidate : Babar Vaishnavi Class & Department : TY BTech & ENTC
 Roll No. : 2065651372028 Subject : Digital communication.

Exp No.	Exp Name	Date of Conduction	Laboratory Assessment				
			Timely submission (02)	Neatness (04)	Understanding (04)	Total (10)	Faculty Sign with Date
1.	To study the pulse code modulation.	27-2-23	2	4	3	9	SBN
2.	To study the Natural sampling & flat top sampling.	6-3-23	2	4	3	9	SBN
3.	To study of the Differential Pulse code modulation.	20-3-23	2	4	4	10	SBN
4.	To study line coding & decoding techniques.	27-3-23	2	4	3	9	SBN
5.	To study the Time Division multiplexing.	3-4-23	2	4	3	9	SBN
CA1 Average marks of laboratory experiment (10)							
6.	To study the frequency division multiplexing.	10-4-23	2	4	3	9	SBN
7.	To study the amplitude shift keying.	17-4-23	2	4	3	9	SBN
8.	To study the frequency shift keying.	24-4-23	2	3	3	8	SBN
9.	To study of the Binary Shift keying.	8-5-23	2	3	4	9	SBN
10.	To study of the quadrature amplitude modulation.	15-5-23	2	3	3	8	SBN
CA2 Average marks of laboratory experiment (10)							

	Laboratory Assessment (10)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)		Laboratory Assessment (10)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)
CA1	9	4	9	5	27	CA2	9	4	9	5	27

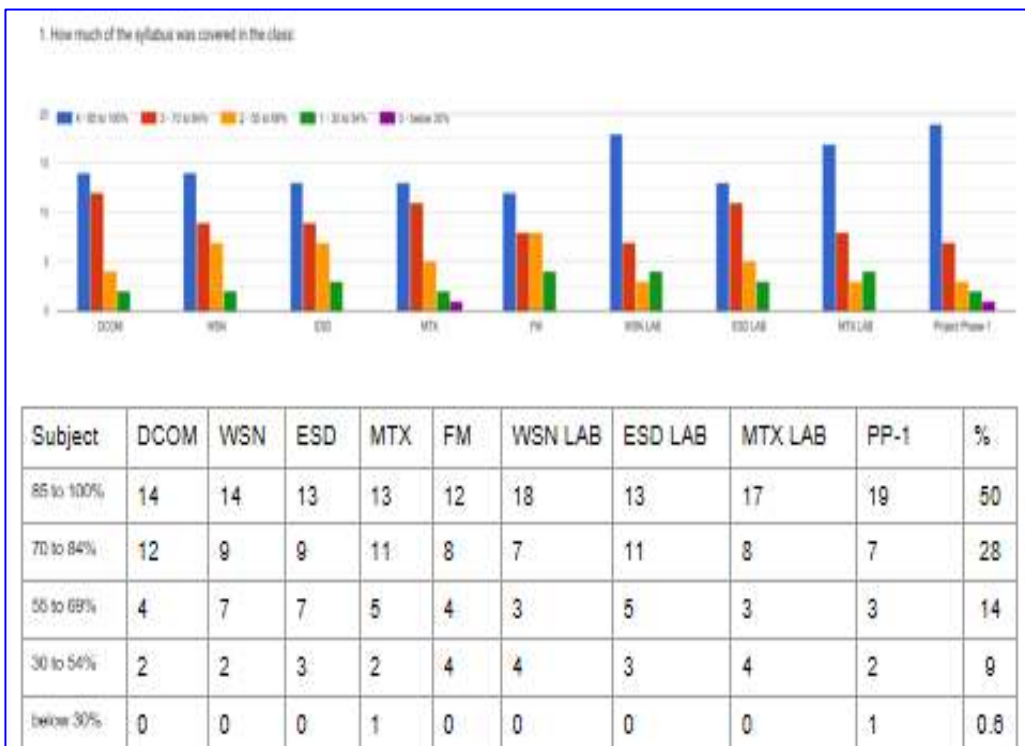
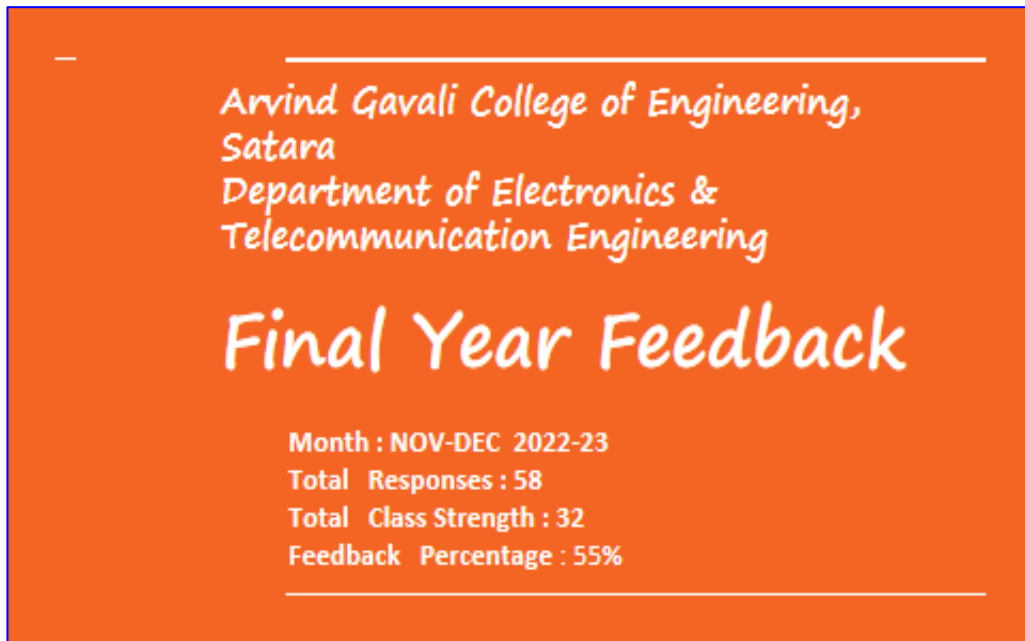
Babar
Student Sign.

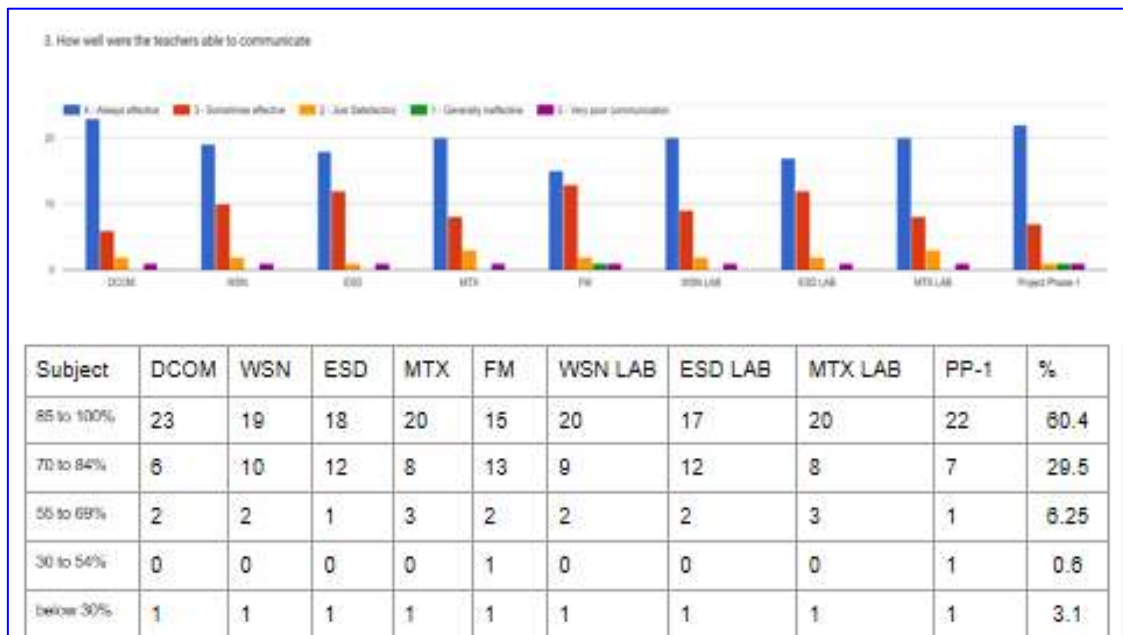
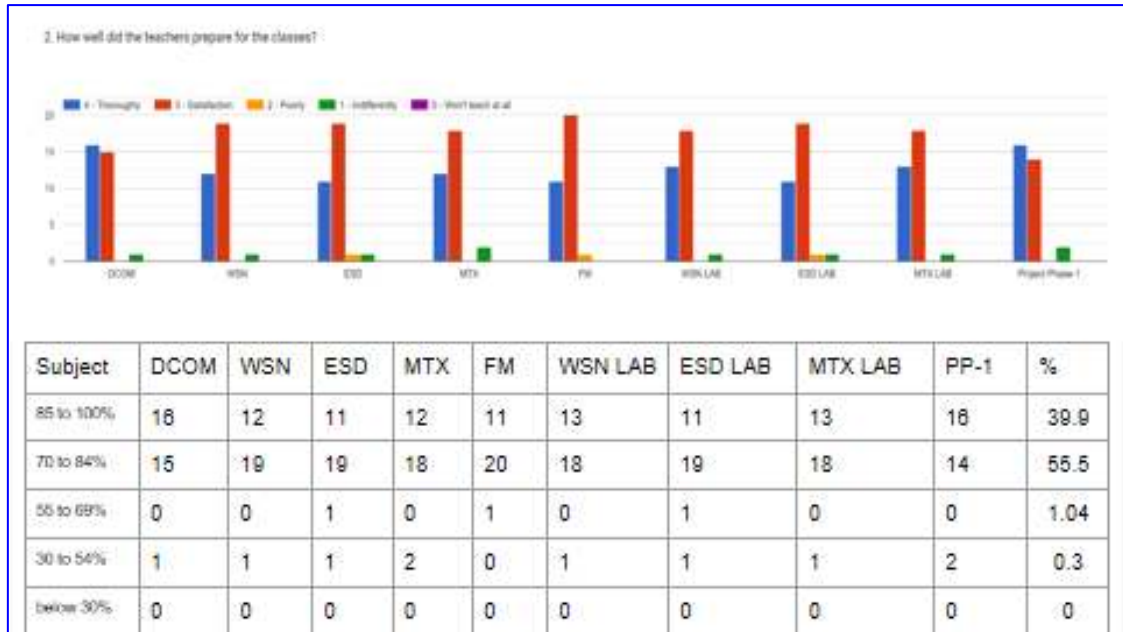
SBN
Faculty Sign.

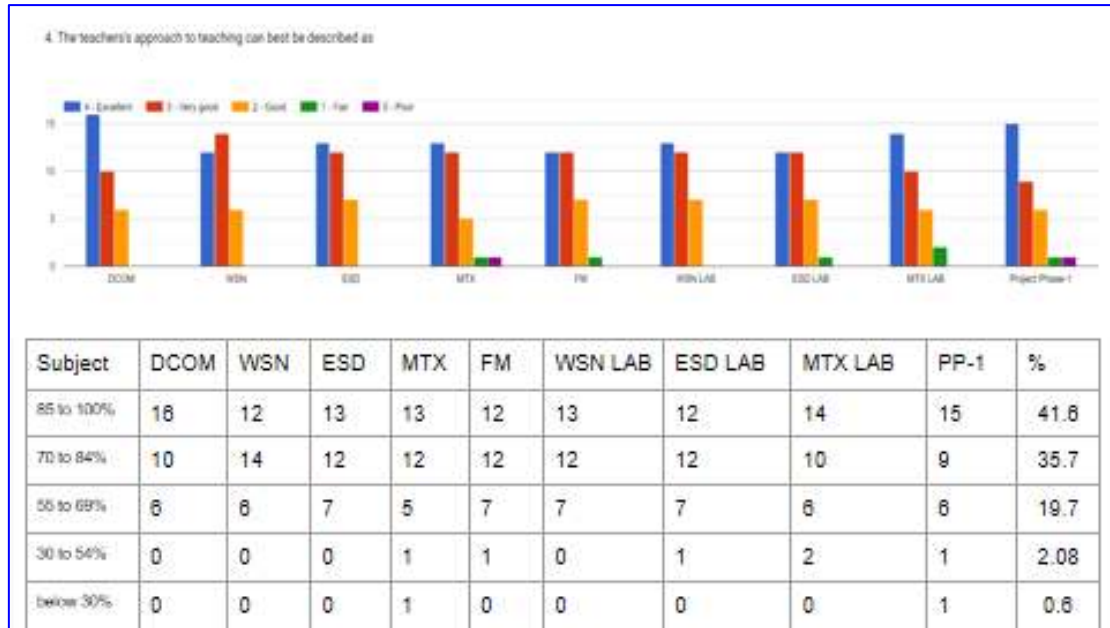
Fig.2.2.1 o. Laboratory Evaluation Sheet 2022-23

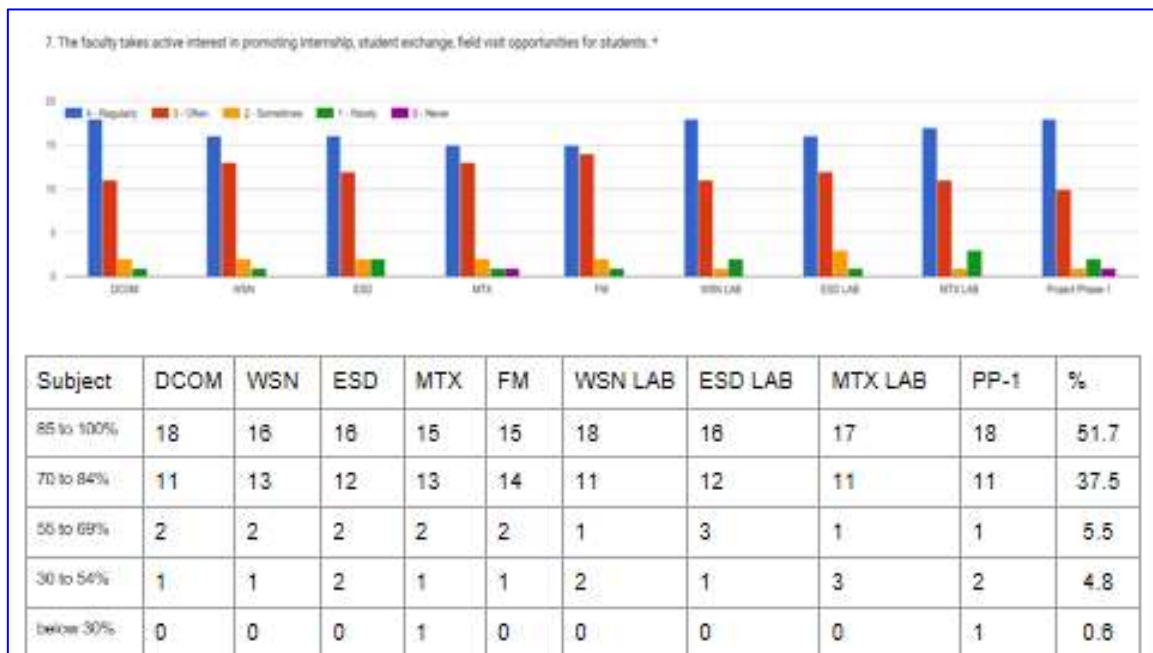
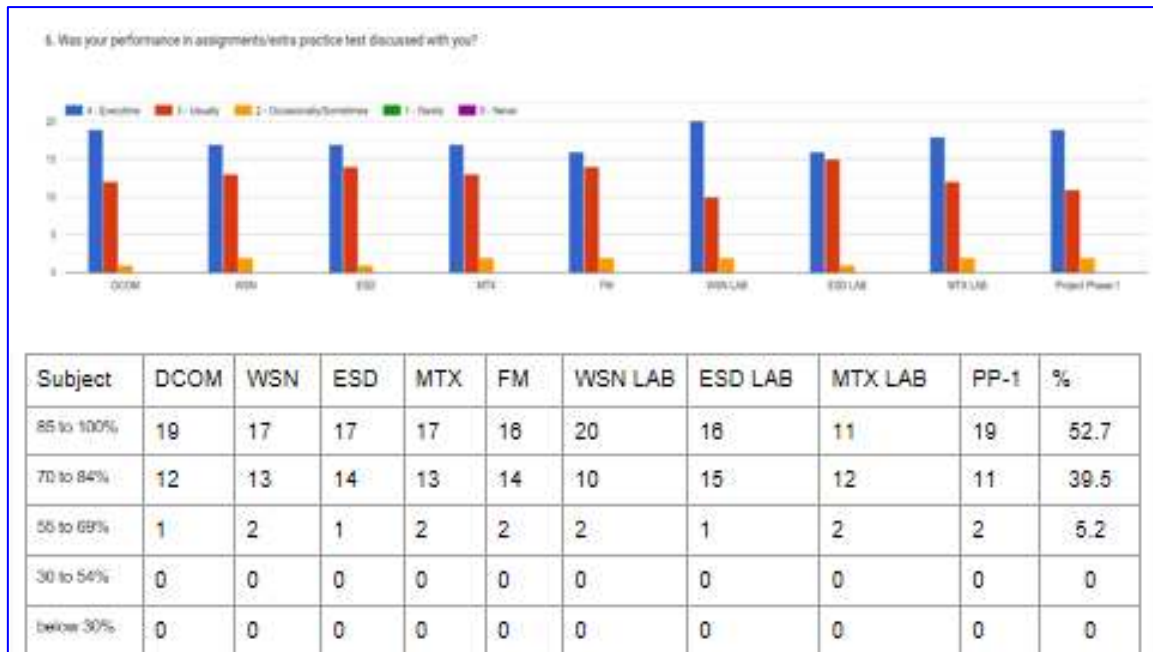
G. Student feedback on the teaching-learning process and actions are taken (06)

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).

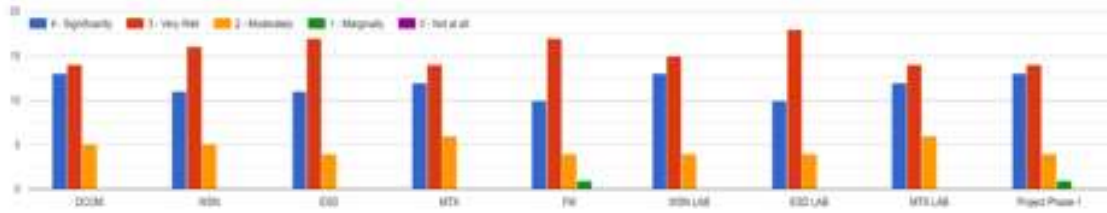






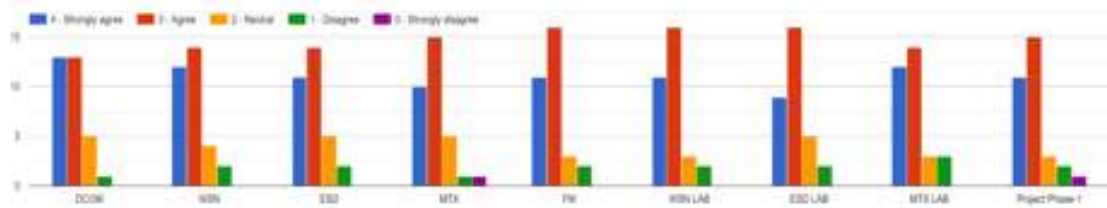


8. The teaching and mentoring process in your institution facilitates you in cognitive, social and emotional growth.

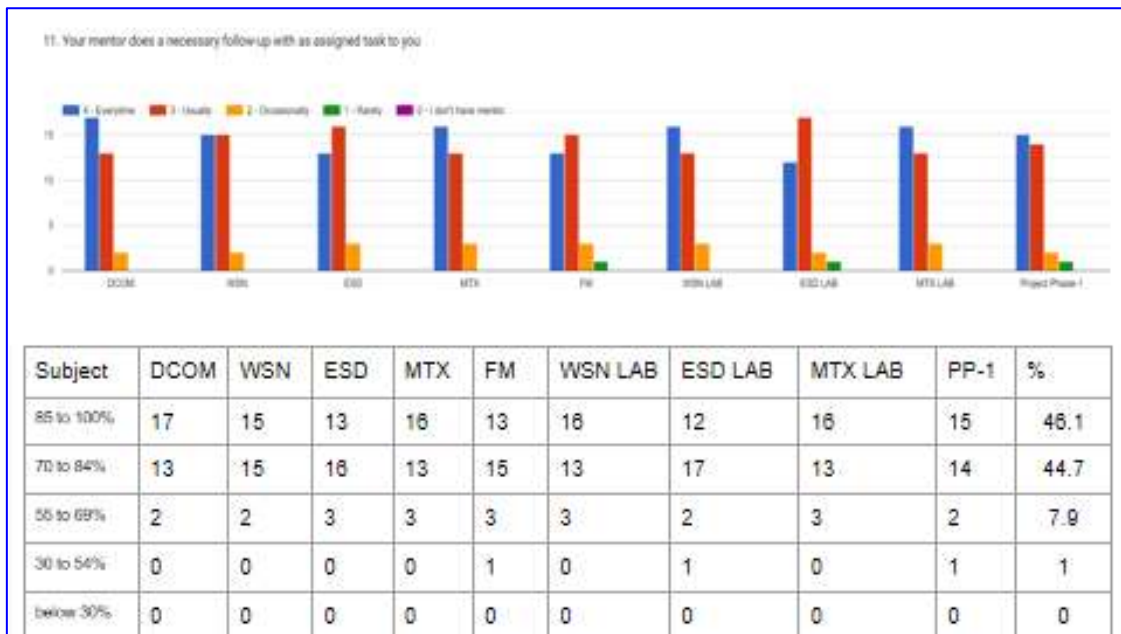
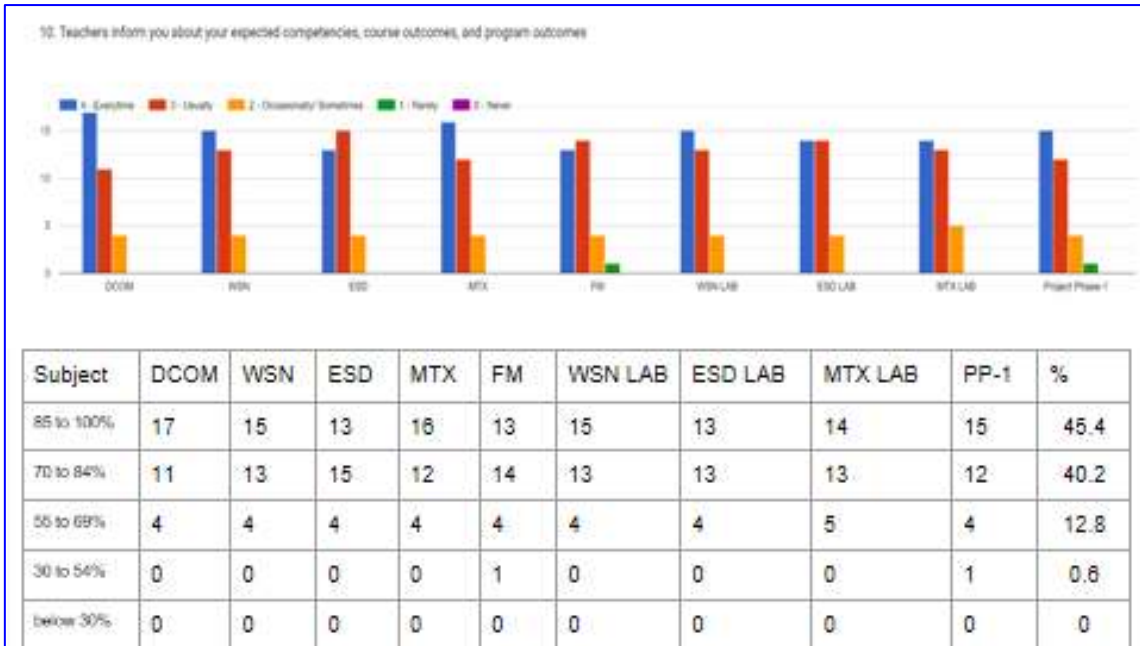


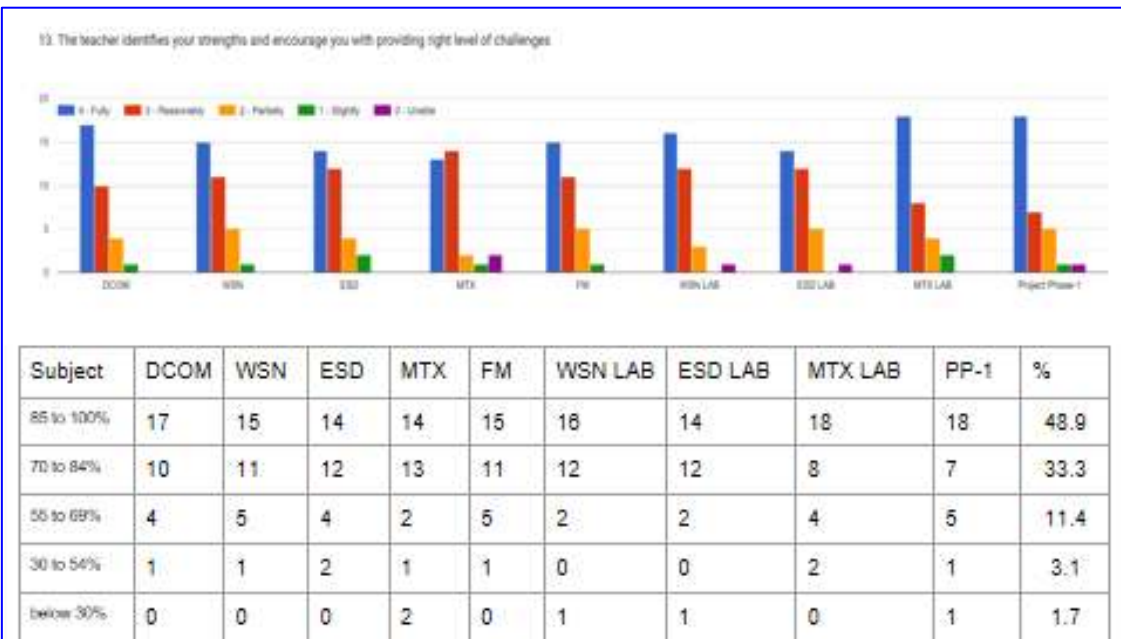
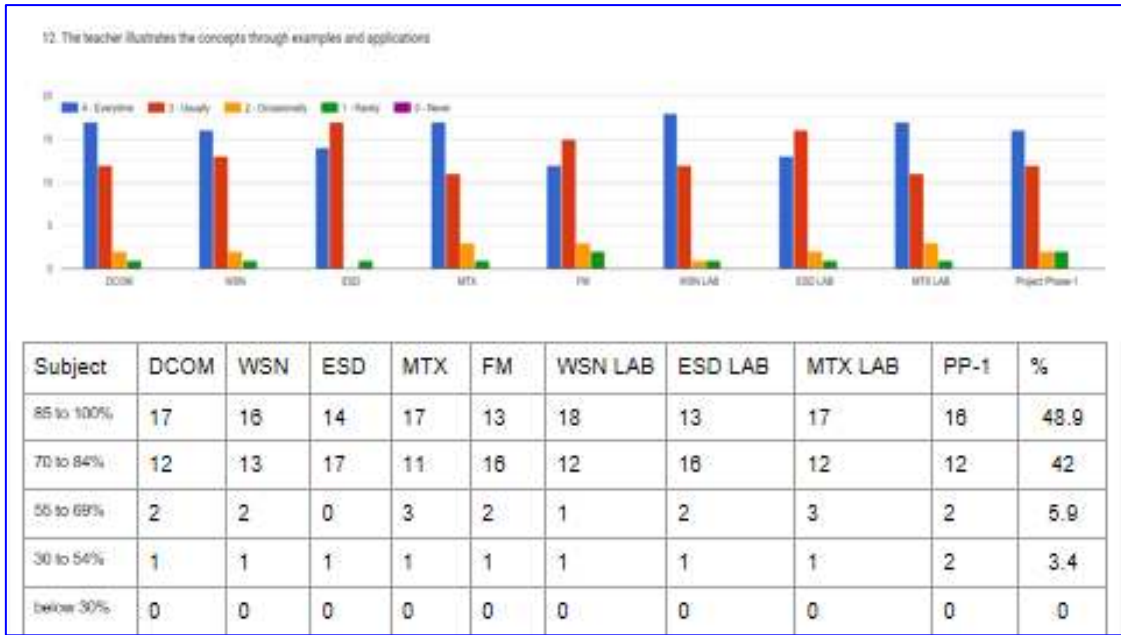
Subject	DCOM	WSN	ESD	MTX	FM	WSN LAB	ESD LAB	MTX LAB	PP-1	%
85 to 100%	13	11	11	12	10	13	10	12	13	38.4
70 to 84%	14	16	17	14	17	15	18	14	14	48.2
55 to 69%	5	5	4	6	4	4	4	6	4	14.5
30 to 54%	0	0	0	0	1	0	0	0	1	0.6
below 30%	0	0	0	0	0	0	0	0	0	0

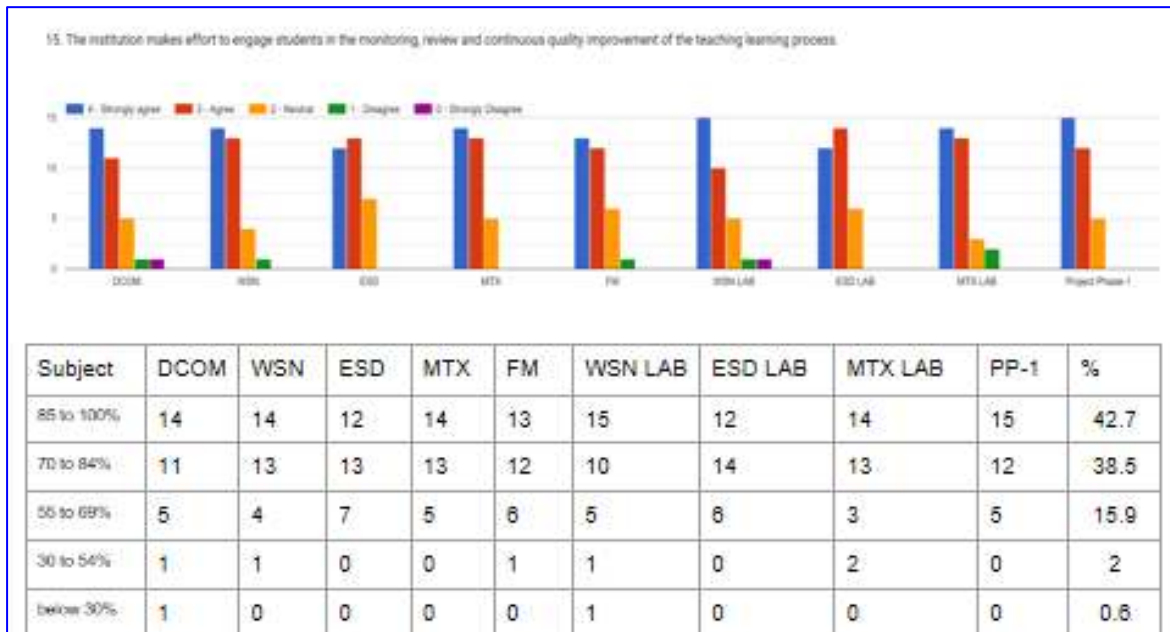
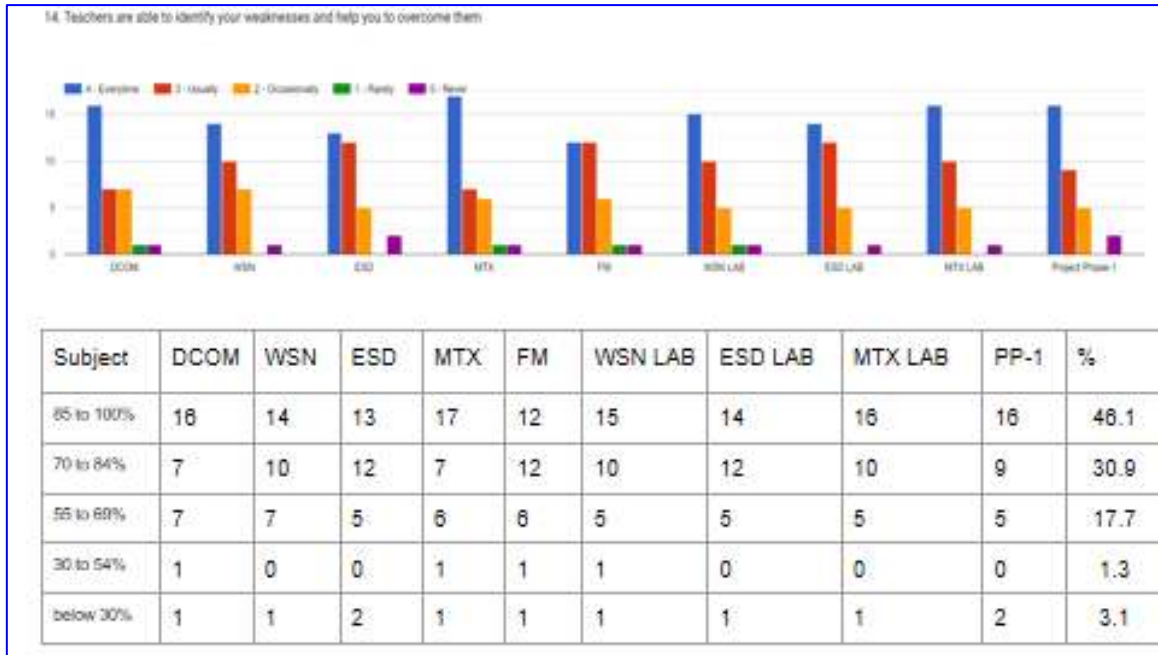
9. The institute provides multiple opportunities to learn and grow



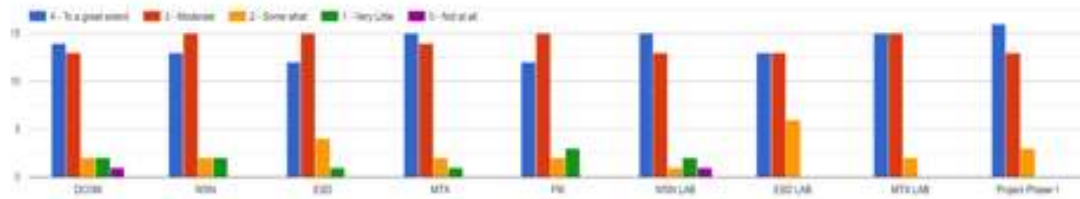
Subject	DCOM	WSN	ESD	MTX	FM	WSN LAB	ESD LAB	MTX LAB	PP-1	%
85 to 100%	13	12	11	10	11	11	17	12	11	37.5
70 to 84%	13	14	14	15	16	16	14	14	15	45.4
55 to 69%	5	4	5	5	3	3	3	3	3	11.8
30 to 54%	1	1	2	1	2	2	3	3	2	5.9
below 30%	0	0	0	1	0	0	0	0	1	0.6





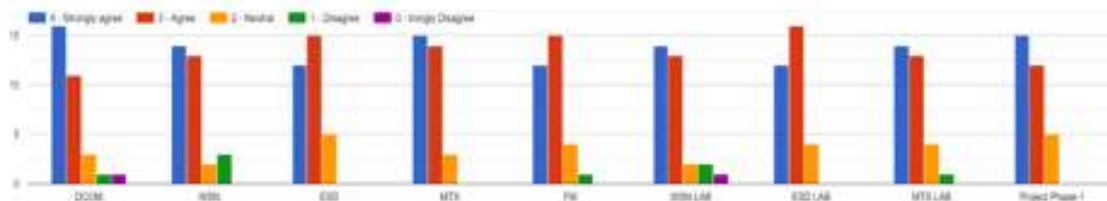


16. The institute teachers use student centric methods, such as experiential learning, participative learning and problem-solving methodologies for enhancing learning experiences



Subject	DCOM	WSN	ESD	MTX	FM	WSN LAB	ESD LAB	MTX LAB	PP-1	%
85 to 100%	14	13	12	15	12	15	13	15	18	43.4
70 to 84%	13	15	15	14	15	13	13	15	13	43.7
55 to 69%	2	2	4	2	2	1	1	2	3	6.5
30 to 54%	1	2	1	1	3	2	0	0	0	3.4
below 30%	1	0	0	0	0	1	0	0	0	0.6

17. Teachers encourage you to participate in extracurricular activities.



Subject	DCOM	WSN	ESD	MTX	FM	WSN LAB	ESD LAB	MTX LAB	PP-1	%
85 to 100%	18	14	12	12	12	14	12	14	15	42
70 to 84%	11	13	15	14	15	13	16	13	12	42.3
55 to 69%	3	3	5	5	4	2	4	4	5	12.1
30 to 54%	1	1	0	0	1	1	0	1	0	1.7
below 30%	1	0	0	0	0	1	0	0	0	0.6

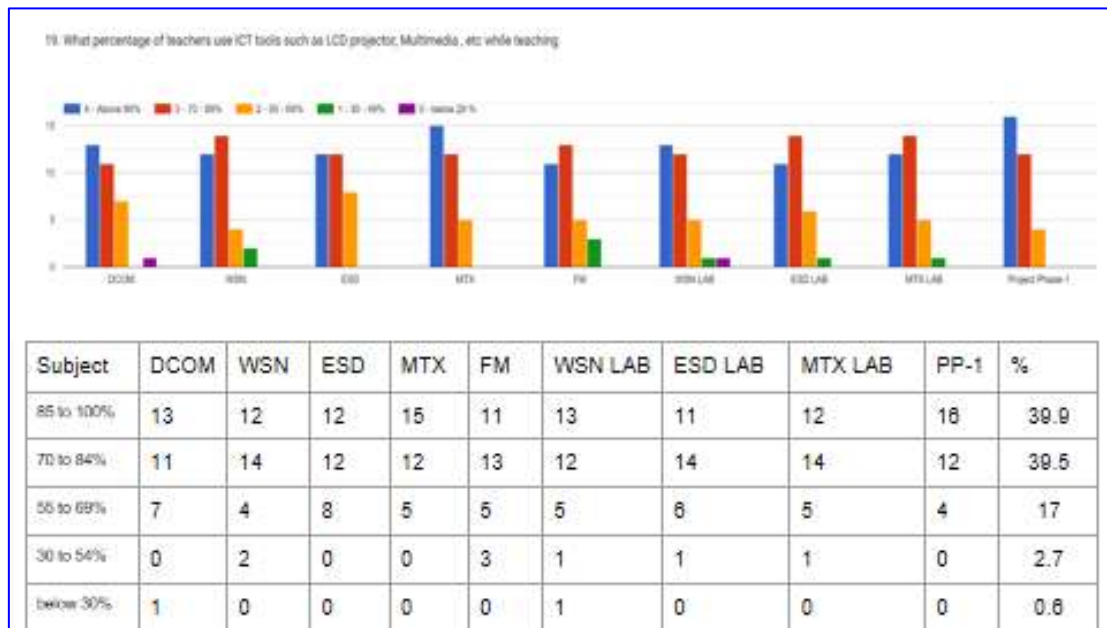
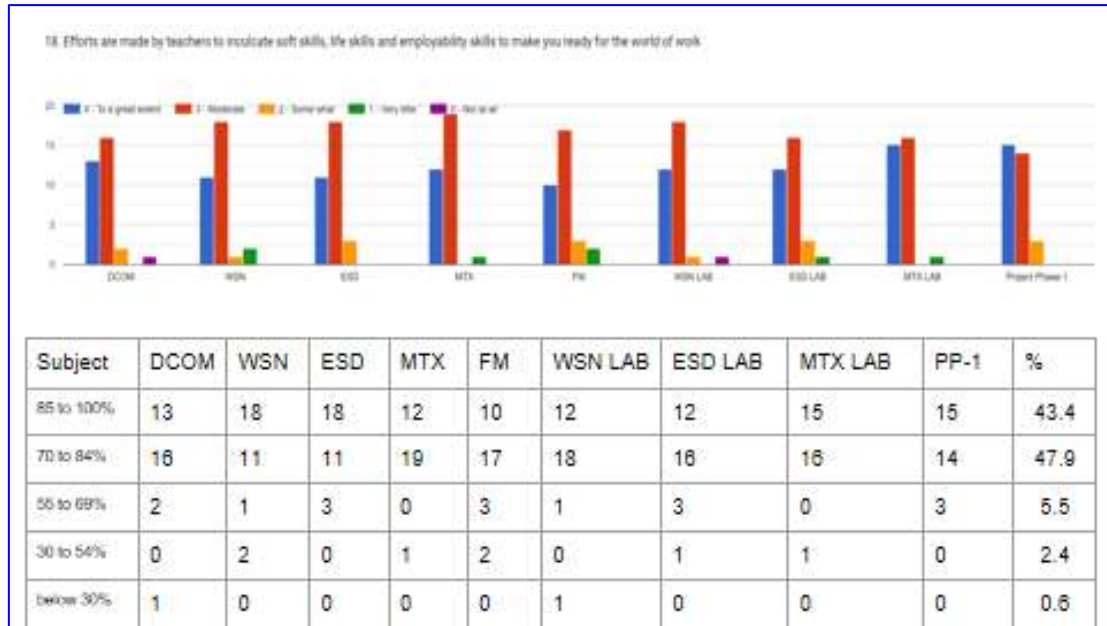


Fig.2.2.1 p. Online Feedback Form

Give 3 Observation/Suggestion to improve the overall teaching learning experience of respective teachers

1. Students should be encouraged more to develop new skills and acquire knowledge with respect to their career goals and job perspective.
2. Communication and soft skills should be given importance, so teachers should communicate with students and help them to overcome their weakness.
3. Teachers should include practical view and applied knowledge of the subject in the teaching.

Overall Analysis

Sub	Fac	Appreciation	Suggestion for improvement	Sign
DCOM	JDB	i. Good communication ii. Good efforts by teacher to encourage student in participating soft skill program ,life skill. iii. Inform about CO and PO to students	i. Should take efforts in monitoring the teaching learning process. ii. Make use of ICT tools.	<i>Jagtap</i>
WSN	CSG	i. Maximum Syllabus Covered. ii. Teacher able to identify student weakness and help them. iii. <i>Content beyond Laboratory Practicals tests</i>	i. Faculty discuss course competencies ,course objective and program outcome with student. ii. Make use of student centric methods.	<i>CSG</i>
ESD	PMD	i. Student Centric Teaching ii. Overall good teaching approach. iii. Good communication.	i. Needs to improvement on encouraging student to participate in extra curricular activities. ii. Needs to take follow up of the assigned task.	<i>PMD</i>
MTX	NSB	i. Good teaching approach ii. Maximum Syllabus Coverage iii. Encouraging to participate in extra curricular activities.	i. Needs to take follow up of the assigned task. ii. Teacher needs to improve effort for internship, soft skill, employability.	<i>NSB</i>
FM	DNK	i. Prepares well for lecture. ii. Good internal evaluation.	i. Teacher should identify strengths and weakness of students.	<i>DNK</i>
PP-1	MGS & CSG	i. Industry sponsored projects has been considerably increased in this year. ii. Project quality is good but expectation is to students participation in state level & national level presentation project competition,	i. Follow-up of students to make the prototype of project	<i>CSG</i>

AMC
 AMC Coordinator

Jagtap
 HOD

Principal
 Principal

Action Taken

Subject	Faculty	Suggestion for improvement	Action	Remark of HOD
WSN	CSG	Take the lectures in interactive way upto students understanding	I will use other ways of interactive teaching by using interactive panel	This will develop interest in student in the said subject
FM	DNK	Identify strength in the students and assign work based on that	I will give more problems and assignments to students for practice	This will give better results
DCOM	JDB	Give more attention on weaker students by promoting them to attain internship program	I will conduct more lectures and promote them for the same	This will show improvement in student result

NSB
 AMC

Jagtap
 HOD

Principal
Dr. Vilas Pharande
 Principal
 Arvind Gavali College of Engineering
 Panmalewadi, SATARA




Fig.2.2.1 q. 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)

Electronics & Telecommunication Engineering department follows the evaluation of scheme of DBATU University 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 minimum 50% syllabus is covered before the mid-semester examination, and the 100% syllabus is covered before the continuous assessment test-II by the course coordinator.

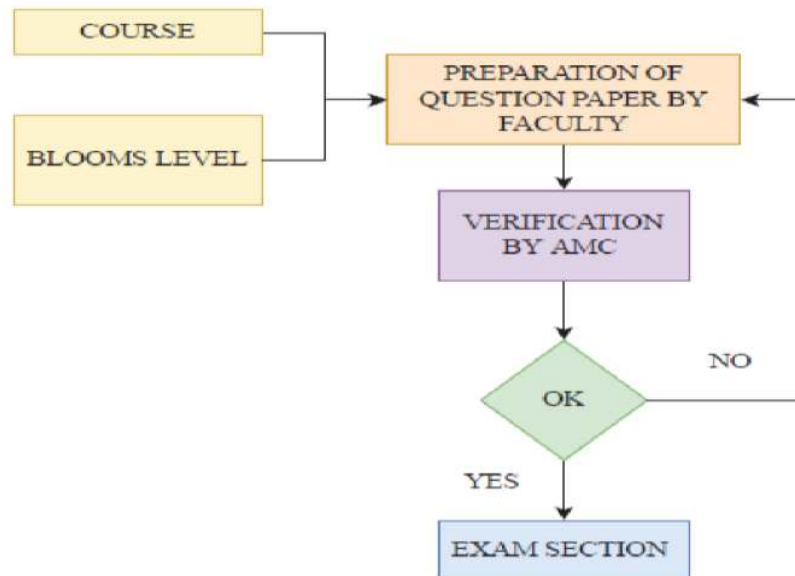
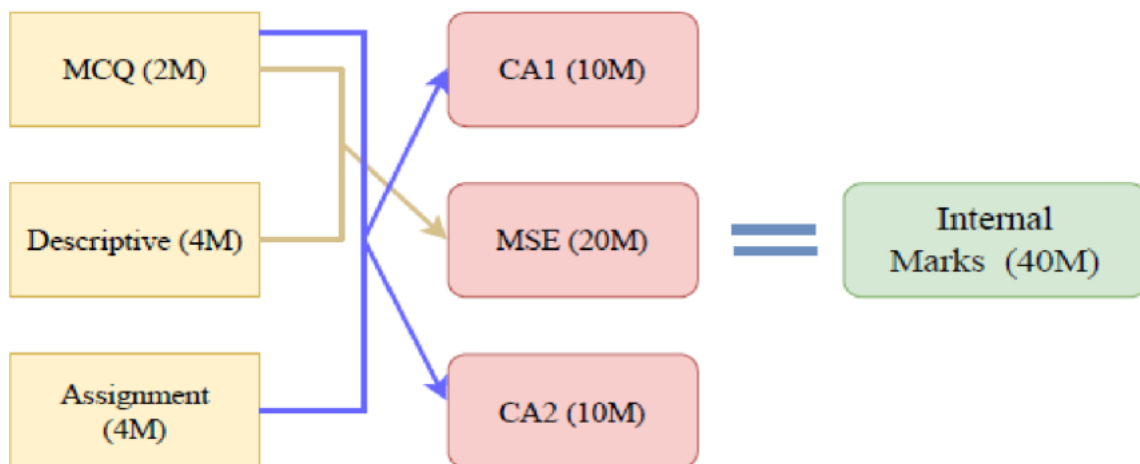


Fig B.2.2.2.a: Internal Question Paper Setting and Evaluation Process



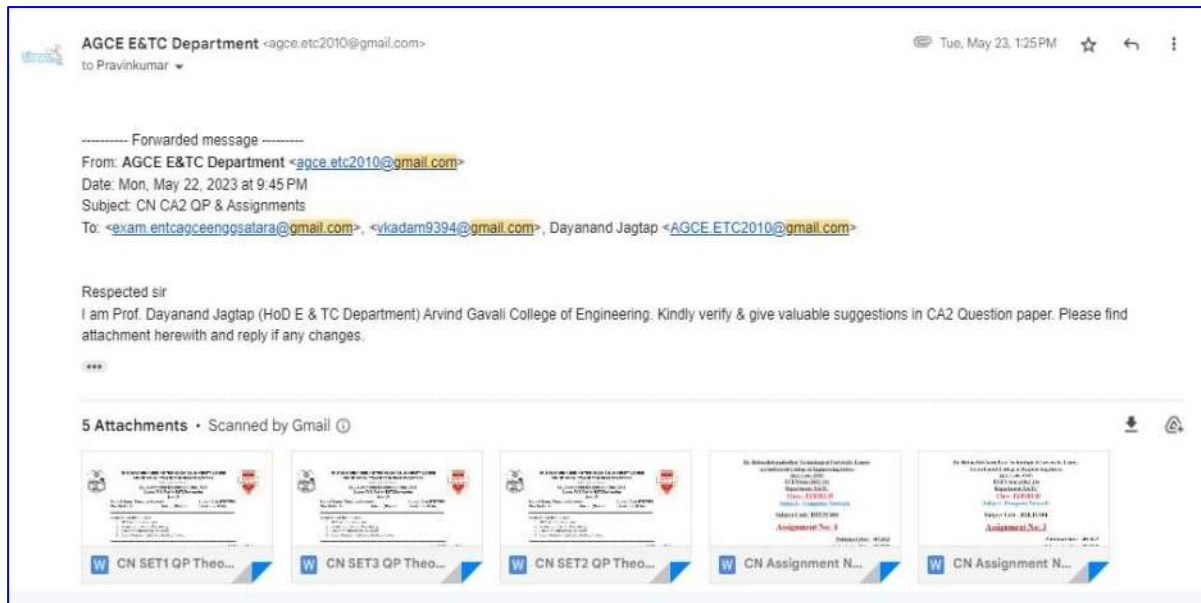



Fig B.2.2. 2.b: Internal Examination Question Paper Pattern

Evaluation:

- a) The faculty member after each internal assessment test evaluates the test books as per the scheme of evaluation.
- b) The faculties after every internal assessment test they explain the solution of the questions in the class.
- c) For any genuine reasons, if a student was unable to perform well in the given three internal assessment tests, improvement test is given to him/her.
- d) The average of the marks obtained from any best two test is chosen for the award of internal assessment marks.
- e) Assignments are used as a tool for practice and evaluation is based purely on Internal Assessment Test.

Figures B.2.2.2.b shows the question papers.



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Bhamburda University, Kolhapur & Dr Babasaheb Ambedkar Technological University (BTU), Lonere.
Website:- www.agce.edu.in

* Address : Al Paranelewad, Post, Nerya,
Tal. & Dist. Satara - 415 015 (Maharashtra)
* Phone : 02152-290100
* Tele Fax : 02152 -281122
* e-mail : agceengg@satara@gmail.com

* Institute Code : Engg. DTE EN-6545.
* Poly. Code : DTE DN-6543
* Poly. MSBTE-1817 (2nd Shift)

Date: - 20/05/2023


NOTICE

Even Sem 2022-23
Theory And Practical CA-2 Exam (Objective & Descriptive)

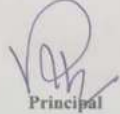
- Theory CA-2 Exam. (Objective & Descriptive) is scheduled from 24th May 2023 to 30th May 2023.
- Theory CA-2 Exam. Marks -10 Marks (Objective Part-02 Marks, Descriptive Part -4Marks, Assignment-2)
- CA-2 Objective exam will be conducted through online mode via Moodle. Exam is MCQ based on CO 3& CO4, Total Questions: 30 (CO3 :15 MCQ , CO4:15 MCQ) Time 10 Min Total Marks:-02
- CA-2 Exam. Descriptive will be conducted on offline mode Daily one paper exam is of 12 Marks based on CO-3 and CO-4 Time: 30 min.
- Respective Subject Teacher has to Submit Assignment 3 & 4,
- Respective Subject Teacher has to Submit 3 sets of Theory CA-2 Exam. Question Paper, CO3 & CO4 MCQ's to Exam department after reviewing the quality of paper as per the guideline of flow chart with respective departmental DAB Members before Paper
- CA-2 Practical Exam. will be conducted on offline mode Daily Practical batches as per academic time table Practical CA-exam is of 15 Marks based on 5 Experiment

Dr. Vilas

CONTROLLEER OF REGISTRATION
Arvind Gavali College of Engineering
Pawani Chowk, SATARA



EN-6545



Principal
Dr. Vilas Pharande

Fig B.2.2.2.c: Examination Notice 2022-23

- 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 (05)

- 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.

Internal assessment tools (Direct) are:

Table 2.2.2a Internal Assessment tool (Direct)

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 (05)

- Faculty members prepare COs for allocated subject. They then prepare assignments according to these COs using Bloom's Taxonomy levels. PERC checks mapping of assignments with the defined COs.
- Faculty prepares Total 5-6 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 and

marked. Marks are given as per student's performance and record is maintained in the course files and attendance registers.

Dr. Babasaheb Ambedkar Technological University, Lonere
Arvind Gavali College of Engineering, Satara
(Inst. Code: 6545)
EVEN Sem (2022-23)
Department: Electronics and Telecommunication Engineering
Class: TY
Subject: DCOM
Subject Code : BTETC602
Assignment No: 3

Published Date: 25/05/2023

Submission Date: 25/05/2023

Q.1)	Define MAP, LRT, ERROR Probability.	CO-3	[6 Marks]
------	-------------------------------------	------	------------

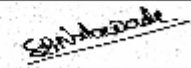

Name & Sign of Faculty
Ms. Nalawade S.B

Fig B.2.2.2.f Assignment with CO relevance

Dr. Babasaheb Ambedkar Technological University, Lonere
Samarth Educational Trust's
Arvind Gavali College of Engineering Satara
Result Analysis of Continuous Assessment-1 (Assignment) Exam Even Sem

18 to 22 April 2023

Class:-SY BTech Sem: IV Subject: Signal System Department :- E&TC

Sr. No.	PRN	Name of Student	Assignment on Unit 1 (12 Marks)	Assignment on Unit 2 (12 Marks)	Total Out of 24	Final out of 4
			CO-1	CO-2		
1	2165451372001	KUMBHAR AADARSH RAJENDRA	10	9	19	3
2	2165451372002	KANASE ABHISHEK BAPUSO	11	9	20	3
3	2165451372003	PATIL AKSHADA ASHOK	10	9	19	3
4	2165451372004	KATKAR AKSHALI DILIP	10	10	20	3
5	2165451372005	MALUSARE ANKITA JAGANNATH	10	11	21	4
6	2165451372006	SHIRKE ATHARVA CHANDRAKANT	10	11	21	4
7	2165451372007	JADHAV DHANSHRI RAJESH	10	11	21	4
8	2165451372008	SHETE HARSHADA RAHUL	10	11	21	4
9	2165451372009	KESKAR MAYUR NITIN	10	11	21	4
10	2165451372010	PAWAR NIKITA NARAYAN	9	10	19	3
11	2165451372011	OMBALE OMKAR PANDURANG	8	10	18	3
12	2165451372012	PATIL POOJA BHUPAL	9	10	19	3
13	2165451372013	PAWAR POOJA BAJIRAO	9	9	18	3
14	2165451372014	JADHAV POURNIMA ANKUSH	9	8	17	3
15	2165451372015	BABAR PRATIKSHA UMESH	9	9	18	3
16	2165451372016	NIKAM PRERANA BALASAHEB	11	9	20	3

Fig B.2.2.2.g Assignment Evaluation Record

2.2.3. Quality of student projects

(25)

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

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

- a) Internet of Things
- d) Embedded System
- e) Automations

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

A. Project Identification & guide allocation methodology (03)

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

1. R& D committee displays a list of faculty members along with their areas of expertise on notice board.
2. A list of previous year's projects is displayed at 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 minimum 3 and maximum 5 and contact the concerned faculty member.
4. If any group is failing to submit the guide name than project coordinator will assign the guide to the groups.
5. Students can choose/come out with a problem for the project. If they are not able to come out with the problem, then the supervisor will give a problem to the students for execution of the project work.
6. Committee finally allots the projects by considering various parameters like relevance to POs, originality, feasibility, technology and resource required.
7. The guide monitors the progress of the project work on a regular basis and keeps the 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 the compliance of university format for submission of the project report

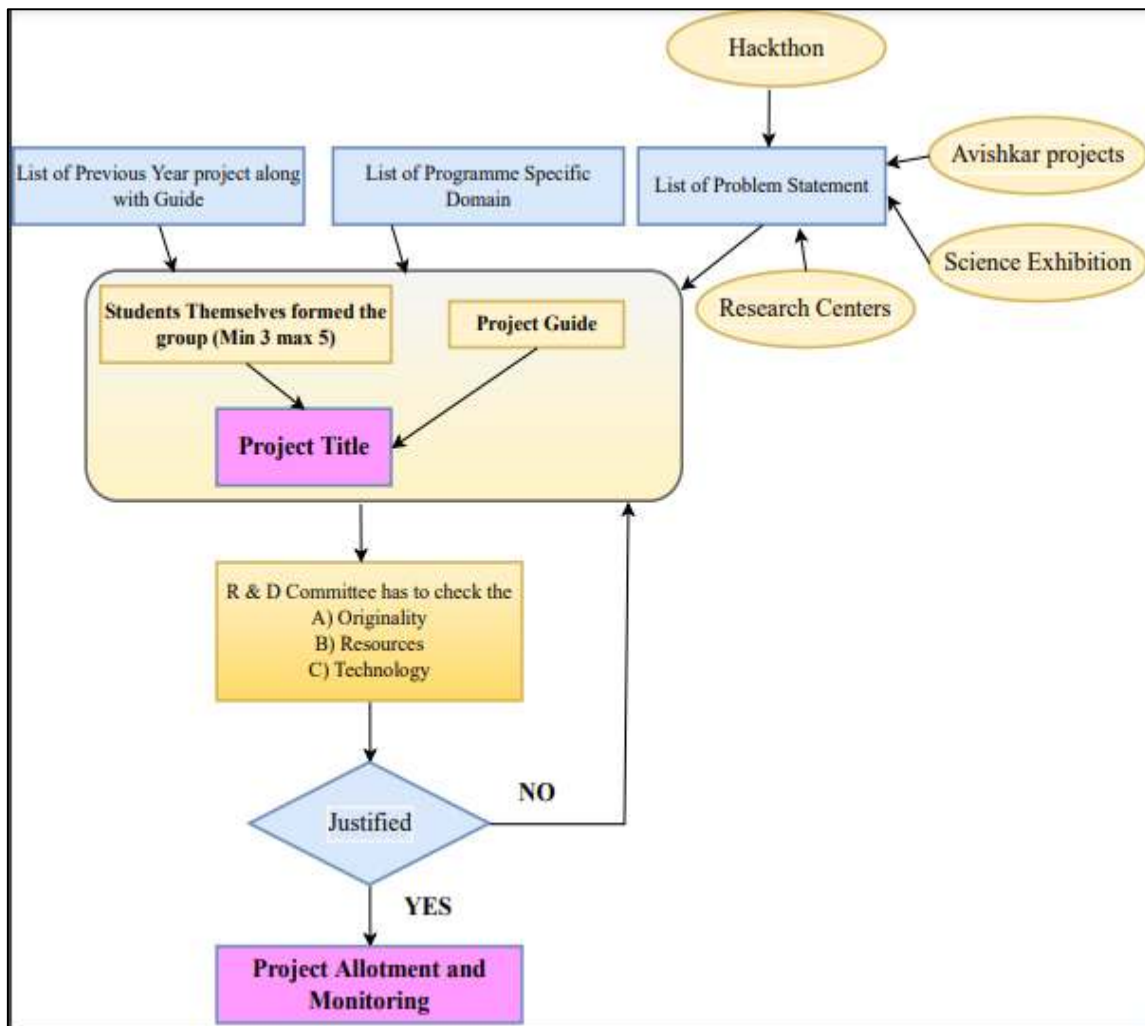



Fig B.2.2.3.a: Project Identification & allocation method



SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING & POLYTECHNIC, SATARA

Department of Electronics & Telecommunication Academic Year : 20 22 / 20 23

NAAC Accredited No. 147

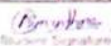
PROJECT PROGRESS SHEET


TITLE OF PROJECT : Voice based medical Assistant chatbot


Name of Student : <u>Mandhane Akshata S.</u>	Sponsored by <u>Source code Technology</u>	Name of Alumni Mentor <u>Varsha chavan</u>	Name of Guide : <u>Dr. Gayatri Mirajkar</u>
E-mail ID : <u>avhatamandhane2@gmail.com</u>	Address : <u>Gahum Ganth, Neer, Gunadwara mandir, pune</u>	E-mail ID : <u>vachavan8199@gmail.com</u>	E-mail ID : <u>gayatrimirajkar@gmail.com</u>
Contact No : <u>9887369235</u>	E-mail ID : <u>Vinodhete199@gmail.com</u>	Contact No : <u>9156763915</u>	Contact No : <u>986036153</u>
	Contact No : <u>9673921886</u>		

Week	Date	Topic Discussed	Task Assigned	Industrial Mentor Signature	Alumni Mentor Signature	Guide Signature	Project Co-ordinator Signature
1	1-9-22	Project Planning and	Define the project scope, objectives	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
2	9-9-22	Research	and key functionalities of the chatbot				
3	22-9-22	Data collection and	Collect a comprehensive dataset	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
4	7-10-22	preprocessing.	of medical que, ans and relevant medical literature				
5	8-10-22	Voice Recognition	Select and integrate a voice	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
6	19-10-22	module	recognition technology or library				
7			Develop a module that converts				
8			voice input to text.				
9	30-10-22 20-11-22	Natural Language	choose an NLP Framework	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

Week	Date	Topic Discussed	Task Assigned	Industry Mentor Signature	Alumni Mentor Signature	Guide Signature	Project Co-ordinator Signature
10	21-11-22	Processing (NLP)	Train an NLP model using your	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
11	12-11-22		preprocessed data to understand and respond to medical queries.				
12							
13	13-11-22	Knowledge Base Integration	Integrate a medical knowledge	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
14	3-1-23		base or leverage existing medical ontologies. Develop methods to extract relevant information.				
15							
16							
17	4-1-23	User Interface and Experience	Design & Develop an intuitive user interface for voice input and response display.	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
18	23-1-23						
19							
20							
21	26-1-23	Testing and Evaluation	conduct extensive testing with diverse medical queries and scenarios.	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
22	16-2-23		Evaluate the chatbot's accuracy and response quality through user feedback.				
23							
24							
25	17-2-23	Integration with External System.	Integrate the chatbot with external systems, such as appointment booking system. Implement secure data handling practices.	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
26	19-3-23						
27							
28							
29	1-3-23	Deployment and maintenance	Deploy the voice-based medical assistant chatbot on the desired platform.	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
30	1-4-23						


 Signature


 Signature


 Principal



 External Examiners

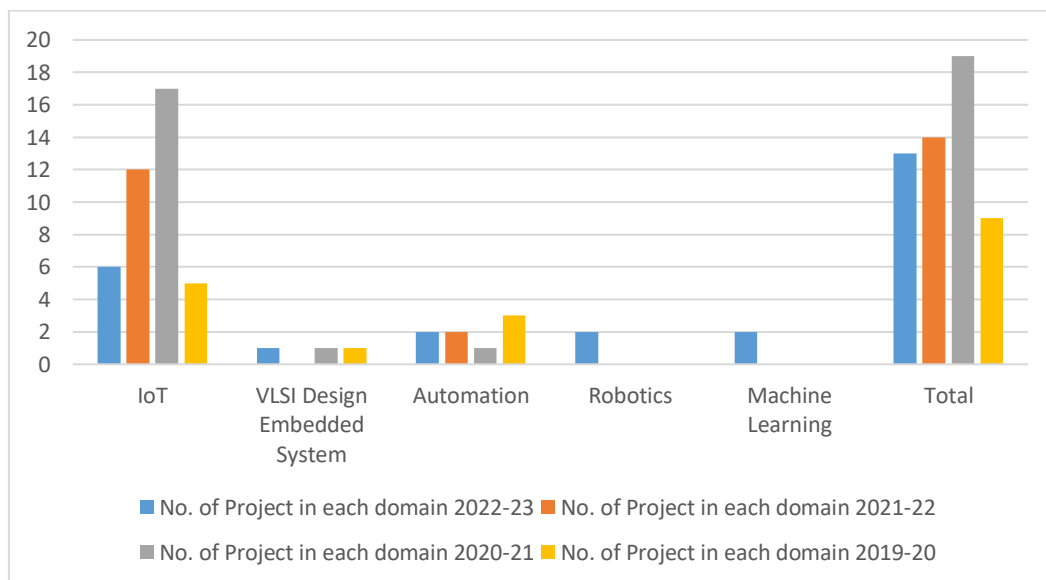
Fig B.2.2.3.b: Project Progress Sheet

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

Manufacturing, Mechatronics(Interdisciplinary), Thermal, Automobile, Design and Manufacturing , Artificial Intelligence and Automation, are major domains of project development in the Mechanical engineering department.

Table 2.2.3. a Project Categories

Project Domain	No. of Project in each domain			
	2022-23	2021-22	2020-21	2019-20
IoT	06	12	17	5
VLSI Design Embedded System	01	0	01	1
Automation	02	02	01	3
Robotics	02	0	0	0
Machine Learning	02	0	0	0
Total	13	14	19	9



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 project guide and project assessment committee members and also the projects are mapped to PO's and PSO's.

Course Objectives:

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

Course Outcomes:

1. Improve the professional competency and research aptitude in 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 team to solve problems with 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 broader social context of

Table 2.2.3.b: Project CO-PO mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2
CO1	3	3	2	3	2	3	3	2	2	3	3	2
CO2	1		3	3	3	2			3		2	
CO3	2	2	3					3	3		3	3
CO4	1	3	3		2				3	3	3	2
CO5	3	3	3	3	3	3	3	2	3	3	3	3
CO6	2	3	1		3				3	2		3
Strength of Correlation												
High3				Medium 2					Low1			

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

CAYm1(2022-23) :

Table B.2.2.3c Mapping of Projects (PR1-PR13) with PO and PSO

Grp NO	Project Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
PR1	Voice Based Medical Assistant Chatbot	Y	Y	Y		Y	Y			Y	Y	Y	Y	Y	Y
PR2	Gesture Recongition based Virtual Mouse & Keyboard	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	Y	Y
PR3	Environmental Quality Index Mapping	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR4	Smart Agricultural System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR5	Iot Based Lift Management System	Y	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y	Y
PR6	Drowsiness detection system	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR7	Automatic Dam Irrigation System using Ardiuno	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR8	Military field Spying Robot	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR9	Detection of Melanoma using deep Learning Techniques	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
PR10	Internet controlled robot	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR11	Iot based Electricity Theft detection System	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y
PR12	Accelerometer Based Hand Gesture Controlled Robo-Car	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR13	Sign Language for deaf and mute people	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	Y	Y

CAYm1(2021-22) :

Table B.2.2.3c Mapping of Projects (PR1-PR14) with PO and PSO

Grp NO	Project Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
PR1	IoT Based Smart Bike Helmet	Y	Y	Y		Y	Y			Y	Y	Y	Y	Y	Y
PR2	Bridge Collapse and Crack Detection Using Arduino IoT	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	Y	Y
PR3	IoT Temperature & Mask Scan Entry System with Student Attendance	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR4	IoT Color Based Product Sorting Machine	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR5	Crop Protection System From Animal Using PIC	Y	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y	Y
PR6	Fog Disinfection Hand Washing Machine	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR7	Password Based Circuit Braker	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR8	IoT enable air pollution meter with digital dashboard on Smartphone	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR9	Gas Leakage Detection Control and Weight Alert System	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
PR10	IoT Based Health Tracking Wrist Watch	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR11	Augriculture Automation Using Sensors & Actuators	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y
PR12	IoT Based Automatic Vehicle Accident Detection and Rescue System	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR13	IoT based safety device for miners.	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	Y	Y
PR14	Arduino based automated password type system	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

CAYm2(2020-21):

Table B.2.2.3d Mapping of Projects (PR1-PR20) with PO and PSO

Grp NO	Project Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
PR1	IoT-Based Industrial Security System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR2	Transformer Theft Protection and Monitorin	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR3	IoT-Based Vehicle Tracking System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR4	IoT-Based Vehicle Tracking System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR5	Smart Shopping Cart For Automatic Billing In Supermarket	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR6	IoT Based Health Monitoring System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR7	Sanitizer Dispensing Robot	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR8	Smart Receptionist Using IoT	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y
PR9	Smart Apartment Management System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR10	Alexa Based Home Automation System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR11	School Bus Monitoring System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR12	IoT-Based Solar Smart Irrigation System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR13	Advanced Spying and Bomb Disposal Robot	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y
PR14	4KW Solar Control Panel Designing and Mounting	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR15	UV Light Disinfection Chamber Using ARM7	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR16	IoT-Based Smart Agriculture System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR17	IoT-Based Smart Grocery Monitoring System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR18	IoT-Based Night Patrolling Robot With Arduino and ESP-32	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR19	IoT-Based Garbage Monitoring System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

CAYm3(2019-20):

Table B.2.2.3e Mapping of Projects (PR1-PR10) with PO and PSO

Grp NO	Project Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
PR1	Greenhouse Monitoring, Controlling, and automation System using Microcontroller	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR2	Swarm Robotics	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR3	Execution of Different Commands in 3G/4G Network with GSM based System	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR4	Automatic Packaging Using PIC Microcontroller	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR5	coal Mine Safety Monitoring and Alerting System by Using IOT	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR6	IOT Based Digital Notice Board	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
PR7	Agriculture based robot by Using IOT	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
PR8	Bridge Monitoring System	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y	Y
PR9	Smart Flood control and Intelligent Dam Coordination System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

A. Process for project work monitoring and evaluation

(05)

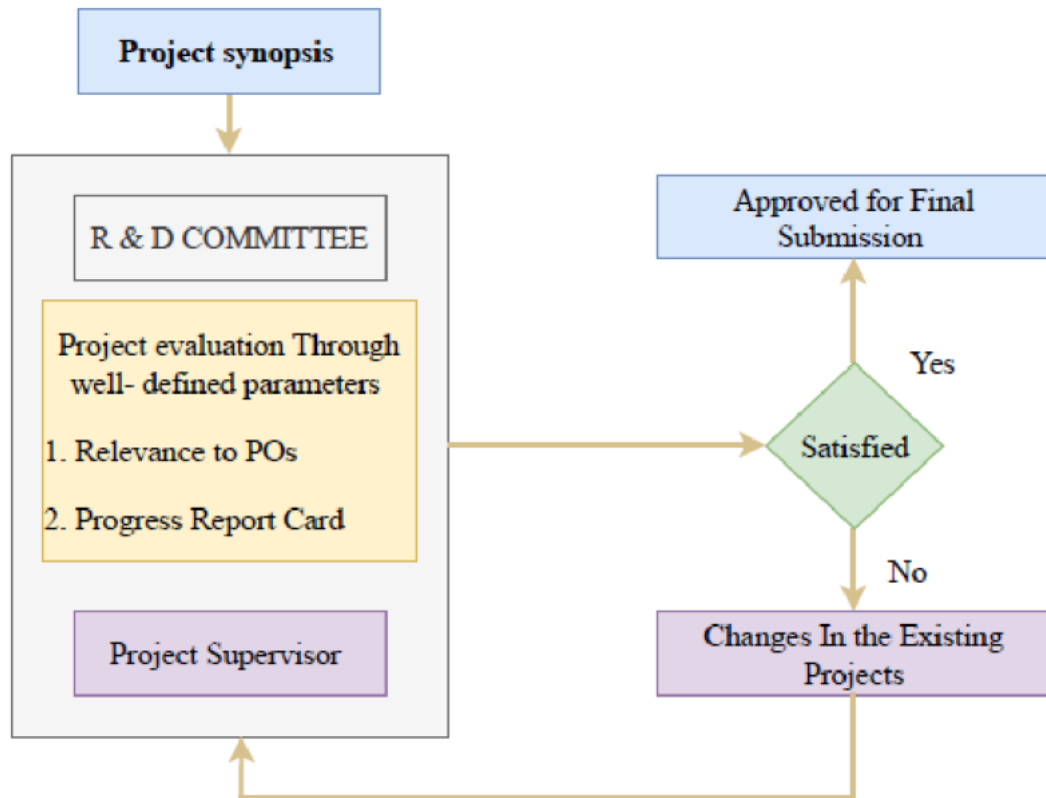


Fig B.2.2.3.c: Project Assessment Mechanism

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.

Finally, the RR committee evaluates the projects for respective domains

Evaluation by project assessment committee:

Phase 1:

Table B.2.2.3 f Project Evaluation Scheme

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

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:

Table B.2.2.3 g Project Evaluation Scheme

Sr. No	Performance Indicators/Rubrics	CO Mapping
---------------	---------------------------------------	-------------------

1	Design Methodology	CO1,CO2
2	Experimental Setup/Laboratory Tests/Validation	CO2
3	Prototype Demonstration and Presentation	CO2
4	Incorporation of Suggestions	CO3
5	Project Budget and Finance	CO5
6	Final Project Demonstration	CO4
7	Effectiveness of Communication	CO6
8	Impact on Environment and Sustainability	CO6
9	Project Report	CO6
10	Results	CO6
11	Conclusion and Discussions	CO3
12	Modern Tool Usage	CO2
13	Participation in Competition	CO4
14	Self-Motivation and Determination	CO6
15	Working Within a Team	CO4
16	Impact of Project on Society	CO6
17	Regularity	CO6
18	Applied Ethical Principles	CO6
19	Future Scope	CO1
20	References	CO1,CO2,CO3

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

Arvind Gavali College of Engineering, Satara						
Prototype Evaluation Sheet						
Final Year B.Tech (All Branches)						
Academic Year: 2022 - 2023						
Name of the Project Guide: <u>Dr. Mirajkar Gp</u>						
Department: <u>ETC</u>						
Project Title: <u>Gesture Recognition Based Virtual Mouse of Keyboard.</u>						
Domain: <u>Automation.</u>						
Sr. No.	Evaluation Criteria	GROUP MEMBERS NAME				
		STUDENT-1	STUDENT-2	STUDENT-3	STUDENT-4	STUDENT-5
1	Technical knowledge on Proposed work	4	4	3	5	
2	Literature Review	5	4	3	5	
3	Design Solutions of Suggested project	5	4	3	5	
4	Analysis of the project	5	3	3	5	
5	Modern Tool Usage	4	4	3	5	
6	Technical knowledge to assess societal issues	4	5	3	4	
7	Impact of Engineering solutions on environmental contexts	4	3	3	4	
8	Applied Ethical Principles in engineering practice	4	5	3	4	
9	Planning of the Project Work and Team Structure	4	3	3	4	
10	Effectiveness of Communication	4	3	3	4	
11	Project Management and Finance	5	3	3	3	
12	Preparation on situation of technological change	5	3	3	3	
13	Synopsis	5	3	3	3	
14	Industry Sponsored/Research/Peer Review Paper Based	5	4	2	3	
15	Project Report	4	4	3	3	
16	Project Implementation and Testing	4	4	3	3	
17	Project Demonstration	4	5	3	4	
18	Participation in Competition	5	5	4	4	
19	Conclusion and Future scope	5	3	4	4	
20	References	5	4	3	2	
Total		80	76	59	79	

Note*
The grading should be:
Excellent: 5, Very Good: 4, Good: 3, Satisfactory: 2, Not Satisfactory: 1

1. Student Name & Sign	2. Student Name & Sign	3. Student Name & Sign	4. Student Name & Sign	5. Student Name & Sign
<u>Pawar Samir</u> <u>[Signature]</u>	<u>Kadam Rutuja</u> <u>[Signature]</u>	<u>Kadam Rishikesh</u> <u>[Signature]</u>	<u>Phalke Vishwani</u> <u>[Signature]</u>	

[Signature]
Guide Sign

[Signature]
Examiner Sign

Fig B.2.2.3.d Evaluation Record

The process to assess individual and team performance

(05)

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.

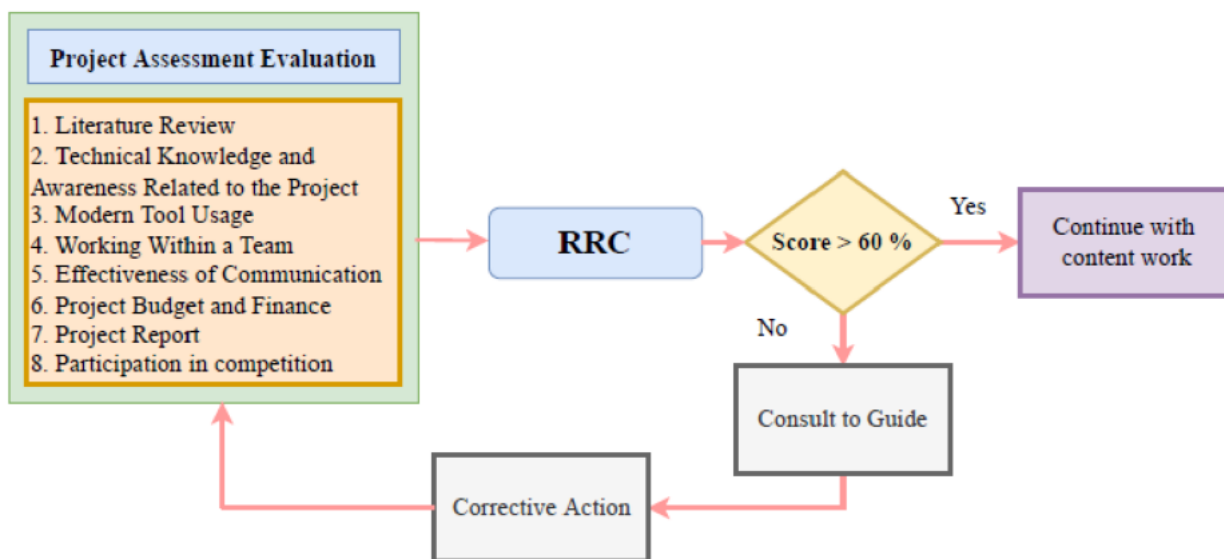


Fig B.2.2.3.e: Student Performance Evaluation Mechanism

A. Quality of completed projects/working prototypes (05)

A committee of R&D department head, Head of the Department, 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

CAY (2022-23):

Table B.2.2.3 j. Three Best Project

Three Best Project 2022-23			
Group No	Name of Student	Name of Guide	Title of Project
G1	Channe Pratiksha Satish	Prof. Dr. Mirajkar G.S.	Voice Based Medical Assistant Chatbot
	Mandhare Akshata Sachin		
	Shinde Monika Ankush		

	Kadam Omkar Nilesh		
G5	Kadam Durga Subhash	Prof. Jagtap D.B.	IoT Based Lift Management System
	Chavan Amruta Sambhaji		
	Patil Sandhya Ashok		
	Deshpande Namrata Nandkumar		
G9	Deshmukh Rupali Santosh	Prof. Hingmire V.S.	Detection of Melanoma using deep Learning Techniques
	Jagtap Anisha		
	Mahamulkar Pooja		

CAY m1(2021-22):

Table B.2.2.3 h. Three Best Project

Three Best Project 2021-22			
Group No	Name of Student	Name of Guide	Title of Project
G3	Shrihari Kadam	Prof. Hingmire V. S.	Design and Development of prototype for plastic waste management using IoT application.
	Madhavi Kadam		
	Sachin Sakunde		
	Abhishek Rajeshirke		
G4	Misba Khan	Dr. Mirajkar G. S.	IoT Color Based Product Sorting Machine
	Omkar Kadam		
	Ghanshyam Jadhav		
	Omkar Mahadik		
G12	Sawant Gouri	Prof. Chavan S. G.	IoT Based Automatic Vehicle Accident Detection and Rescue System
	Madhavi Kadam		
	Sachin Sakunde		
	Abhishek Rajeshirke		

CAY m2(2020-21):

Table B.2.2.3 i. Three Best Project

Three Best Project 2020-21			
Group No.	Name of the Project Group Members	Name of the Guide	Title of the Project
G1	Akash Bhimrao Chougule	Mr. Hingmire V. S.	IoT-Based Industrial Security System
	Akshay Arun Jadhav		
	Namrata Ramdas Chavan		
	Amit Rajendra Pawar		
G2	Gavali Manisha Krushnakant	Mr. Barkade V. T.	Transformer Theft Protection and Monitoring
	Gurav Kanchan Dattatray		
	Waragade Mrunali Dilip		
	Nikam Priyanka Chandrakant		
G3	Bandal Tushar Jayawant	Dr. Mirajkar G S	Alexa Based Home Automation System
	Gowarkar Rutvik Ajit		
	Pawar Kuldeep Shivaji		
	Kulkarni Vishwjeet Amol		

CAY m3(2019-20):

Table B.2.2.3 j. Three Best Project

Three Best Project 2019-20			
Group No.	Name of Student	Guide	Name of Project
G1	Shinde Dhiraj	Mr.Khade V.C.	Execution of Different Commands in 3G/4G Network with GSM based System
	Yadav Vaishali		
	Jadhav Vishakha S		
G2	Bhosale Snehal	Dr.Mirajkar G.S.	

	Yadav Nikita		Automatic Packaging Using PIC Microcontroller
	Bankar Nilam Pradip		
G3	More Vivek	Mr.Jagtap D.B.	IOT Based Digital Notice Board
	Nalawade Vishal		
	Mane Priyanka		



Figure B.2.2.3.f Intra-College Project Competition

Photo of Best Project:

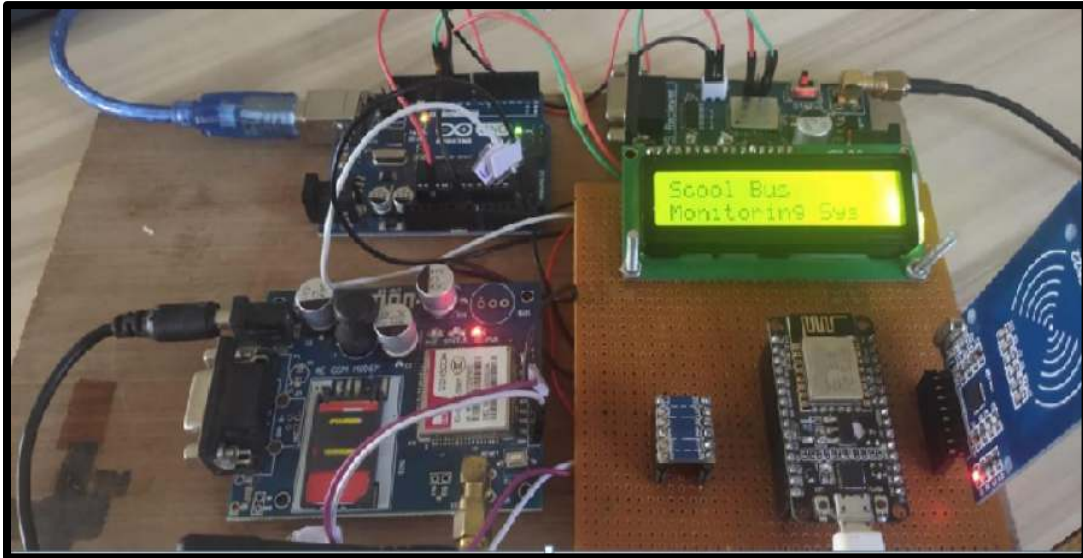


Fig B.2.2.3.g School Bus Monitoring System

A. Evidences of papers published/Awards received by projects etc. (02)

Sr. No.	Academic Year	Name of the Competition	Number of students participated
1	2022-23	National Level Project Competition Rotarex 2023	42
2		CRETECHNOVA 2K23 National Level Technical Competition held at SVPM Malegaon.	12
3		National Level Project Competition held at YSPM Satara	08
4	2021-22	National Level Project Competition (by Doulatrao Aher College of Engineering Karad)20/05/2022	04
5		National Level Project Competition (by Yashodha Technical Campus Satara 9/05/2022)	04
6	2020-21	AVISHKAR 2019-2020	03

	Zonal Level Competition by DBATU	
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Figure B.2.2.3. h Project Participation Certificate



Figure B.2.2.3.i Project Participation Certificate

2.2.4. Initiatives related to industry interaction

(15)

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

A. Industry supported laboratories (05)

Table B. 2.2.4 a. Industry Supported Lab Details

S.No	Industry Attached Laboratories	Name of Company/Organization	Objective	Relevance to PO/PSO
1	Robotics Laboratory	IIT Bombay eLSI Lab Initiative and IIT Bombay remote center	<ol style="list-style-type: none"> 1. To get acquainted with the world of robotics and embedded systems. 2. Ability to create and contribute too, complex applications that run on this platform, helping to acquire expertise. 3. Fire Bird V is designed by NEX Robotics and Embedded Real-Time Systems lab, CSE IIT Bombay. 4. To provides an excellent environment for experimentation, algorithm development and testing. 	PO1,PO3,PO4,PO5,PO12 PSO1

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.
5. Opportunity to have a face-to-face session with technical or administrative experts of the organization to ask questions and clarify doubts. Understand the end-to-end process at all levels.
6. Opportunity to understand policies and practices of Industry in terms of production, quality, and service management.
7. Keeping these objectives at hand, the department organizes industrial visits which are within the framework of the curriculum.

Table 2.2.4 b. Industrial Visit

S. No	Academic Year	Batch	Name of Company Visited	Date of Visit	No. of Students
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1	2022-23	SY TY BTECH E&TC	Intelux Electronics Pvt. Ltd. Pune	10 March 2023	23
2	2019-20	SY TY BTECH E&TC	Institute Of Satellite Telecom Pvt Ltd	4 Oct 2020	22
			YC-CIII, YCIS, Satara	13 March 2020	40
			Suzlon, Maloshi plant,Chalkewadi ,Satara	5 Oct 2019	30

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

A. Figure 2.2.4 a Format of student feedback on industrial visit

B. Invited talks- Resource person from industries in specific domain of Electronics & Telecommunication Engineering.



Figure 2.2.4 c. Industrial Talk Session

C. Student Development Programs- in collaboration of industry for skill/curriculum development.



Figure 2.2.4 d. Student Development Session

D. Industry experts invited as judges for project Exhibition.



Figure 2.2.4 e. Industry Expert Visit for Project Exhibition

E. MOU With Industry:

Following MOU are signed with Companies

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

Sr. No	Name of Company	Authorized Person	Duration
1	New HKS Electronics, Satara	Mrs Kavita Hanmant Pharande	3Jan2020-4Jan 2025
2	Prime Enterprises	Mr Sachin Suresh Maskar	3Jan2020-4Jan 2025
3	Space Automation, Satara	Mr Akshay Gajanan Jadhav	3Jan2020-4Jan 2025
4.	Ajinkya Electro Systems	Mr Sushant Jadhav	3Jan2020-4Jan 2025
5	Whizkey(OPC) pvt ltd, Pune	Mr Avinash Magdum	27 Nov 2019-28 Nov 2022

Memorandum of Understanding (MOU)

Institute

Arvind Gavali College of Engineering
Satara

Industry

SANGRAM ELECTRICALS,
SATARA

Duration of MOU:

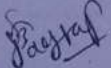
The **Arvind Gavali College of Engineering, Satara** and **SANGRAM ELECTRICALS, SATARA** are intended to facilitate the process of close Industry Institute Interaction (I-I-I) and actively promoting fresh avenues for the same. This MOU shall strive to enhance interaction with students, faculty and bridge the gap between Academia, Industry and Corporate World. This will have a positive impact on the engineering curriculum, exposure of industrial atmosphere to engineering students and subsequent placement in industries across the globe.

Vision: To create avenues for the students to have greater exposure for industrial environment and establish preferred institute for recruitment and research.

Mission: To create A.G.C.E. as a hub in industrial research, consultancy and continuing education and to create an environment to synchronize the skills of students with the needs of industry.

The Institute can:

- Encourage, enhance, and create avenues and environment for greater involvement of faculty and staff with industry for R&D and consultancy
- Make available the laboratories, incubation centre and manpower as per industry needs.
- Provide representation for or invite representatives from Industries on Board of Studies, Faculties, Academic Councils, and Governing Body etc.


Head E & TC Engg. Department
GAVALI COLLEGE OF ENGINEERING SATARA
Panmalawadi (Varye)



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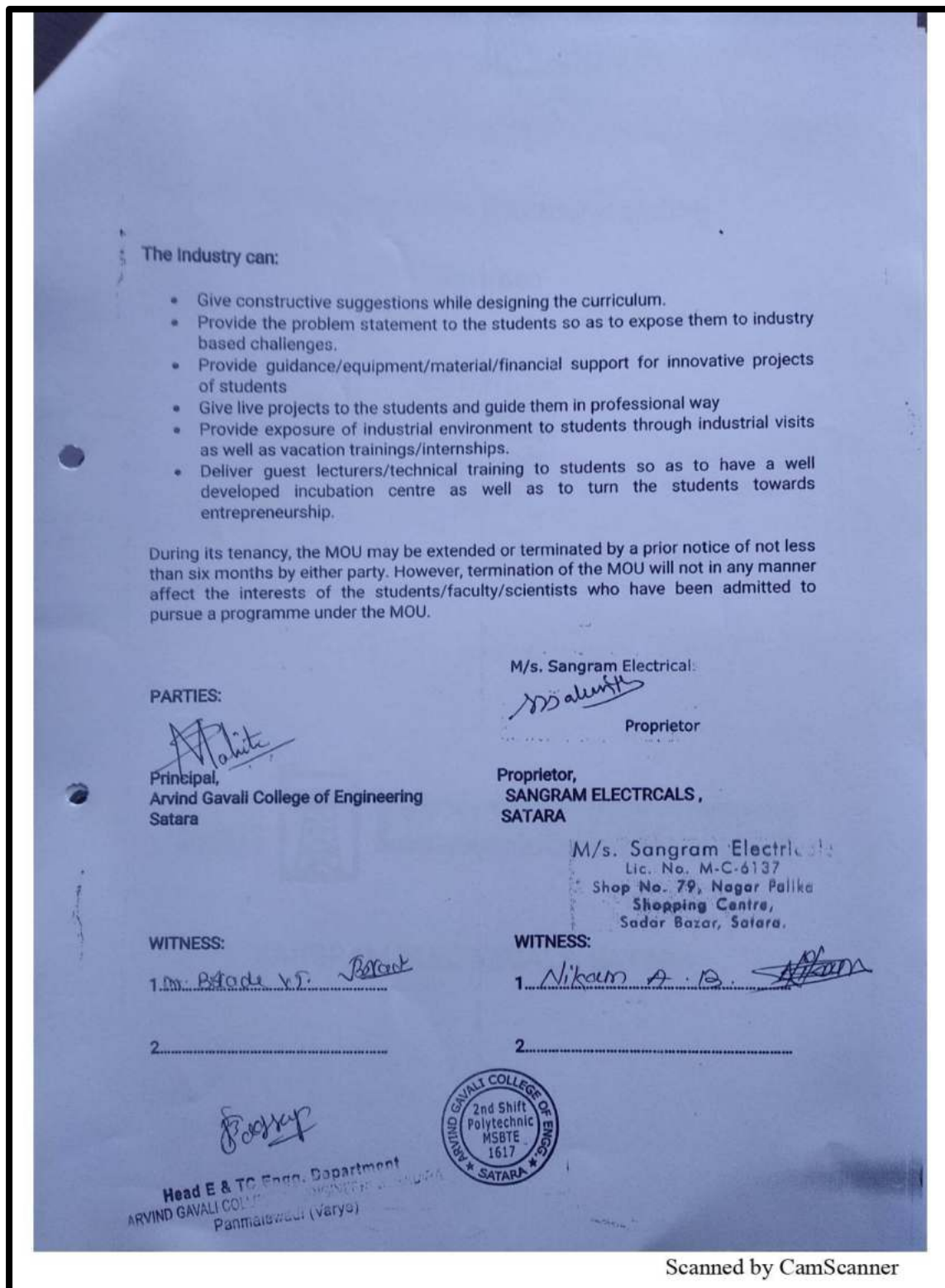


Figure 2.2.4 f. MOU

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

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

Sr. No	Industry Interaction Initiative	Industry Involved	Outcome	Impact Analysis
1	Industrial Visits	Institute Of Satellite Telecom Pvt Ltd	Skills to use modern engineering tools, software and equipment to analyze Satellite Problems	Experience the Industrial Culture
2	Industrial Visits	YC-CIII , YCIS, Satara	Interaction with team and discussion on doubts Regarding immerging Technology	Get idea about mentorship for Start Up
3	Industrial Visits	Suzlon, Maloshi plant, Chalkewadi , Satara	Get idea about opportunities available in Suzlon group	Students get idea about generation of wind energy



Fig 2.2.4 g Photographs of Industry Interactions:



Fig 2.2.4 h Industry Visit at ISTC Kharadi



Fig 2.2.4 i Industry Visit at YC-CIII, YCIS, Satara

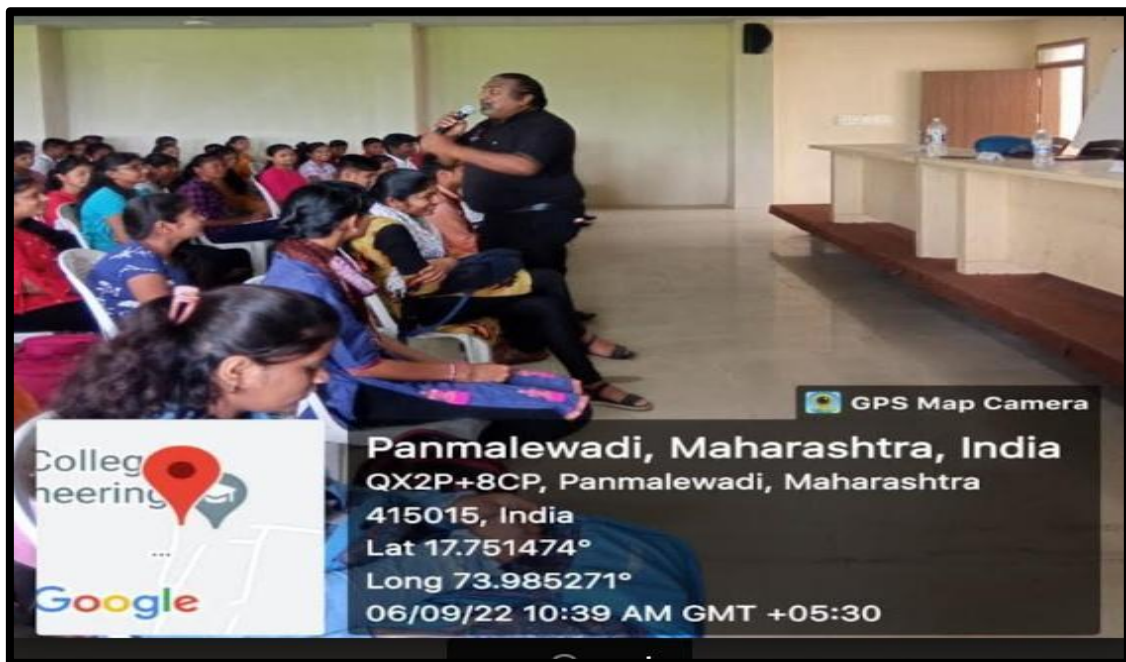


Fig 2.2.4 j Industry Expert'S Talk

Industrial/Internship/Summer Training:

A. Industrial/Internship/Summer Training Course Objectives

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

B. Industrial/Internship/Summer Training Course Outcomes:

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

C. Implementation of Industrial Training:

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

Table B 2.2.4 e Industry Interaction Details

Sr.No	Company Name

1	BROOKON TECHNOLOGIES PVT LTD
2	NEXTECH AUTOMATION SOLUTIONS PVT.LTD
3	SONALI ELECTRONICS
4	AMCON POWER INDUSTRIES
5	PRIME ENTERPRISES
6	IDBI RESTI
7	DUTHGANGA SAHKARI SAKAHAR KHARKHANA BIDRI
8	PATIL ENGINEERING SERVICES
9	SHREE GANESH ECOTECH SYSTEM
10	NEW HKS ELECTRONICS
12	USAS SOLUTIONS
13	PRICOL LIMITED
14	SANDEN VIKAS PVT LTD, PUNE
15	VERSATILE SERVICES, CHAKAN
16	ABACUS ELECTRONICS PVT LTD, PUNE
17	CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT
18	AUTOCAD INDUSTRIAL SOLUTION PUNE
19	SHUBHAM ENTERPRIZES, CHAKAN
20	OEN INDIA LTD CHAKAN
21	ELECMEC CONTROLS, MUMBAI
22	IN YANTRA TECHNOLOGIES PVT LTD, SHIRVAL

Student Training Information (2022-23)

Sr No	Name of the Candidate	Name of the Company
1	VAISHANVI PHALKE	INFOSYS LTD.
2	RUTUJA KADAM	SOURCE CODE TECHNOLOGY PVT. LTD. PUNE

3	RUSHIKESH KADAM	VARROC ENGINEERING, LTD, PUNE
4	SANKET PAWAR	YANTRA TECHNOLOGIES PVT. LTD.
5	ABHIJEET WASKE	VARROC ENGINEERING, LTD, PUNE
6	PRIYA DESHMUKH	TATA AUTOCOMP SYSTEMS LTD, PUNE
7	PRATIK DANGARE	OASIS INFOBYTE
8	NIKESH GHADAGE	SQUAREWAVE AUTOMATION TECHNOLOGIES PVT. LTD, SATARA/SEDNA INFOSYSTEMS
9	AKANKSHA PAWAR	SQUIRREL'S INFOTECH
10	POOJA SAWANT	TEST YANTRA
11	TEJASVI BANDGAR	SQUIRREL'S INFOTECH, SATARA
12	MUKTA PHARANDE	GENESIS TECHNOLOGIES
13	NAMITA SHIVATHARE	GENESIS TECHNOLOGIES
14	PRIYA YADAV	GENESIS TECHNOLOGIES
15	PAYAL SABALE	ECS SOFTWARE TECHNOLOGIES PVT. LTD,
16	SHASHANK PECHFULE	WIKA INSTRUMENTS INDIA PVT. LTD
17	AKSHAYA YADAV	PATPERT TEKNOV SYSTEMS PVT. LTD. PUNE/ SQUAREWAVE AUTOMATION TECHNOLOGIES PVT. LTD. SATARA
18	TUSHAR INAMDAR	PATPERT TEKNOV SYSTEMS PVT. LTD. PUNE/ SQUAREWAVE AUTOMATION TECHNOLOGIES PVT. LTD. SATARA
19	AKSHATA MANDHARE	SOURCE CODE TECHNOLOGY PVT. LTD. PUNE
20	OMKAR KADAM N	VARROC ENGINEERING, LTD, PUNE
21	MONIKA SHINDE	SOURCE CODE TECHNOLOGY PVT. LTD. PUNE/SQUAREWAVE AUTOMATION TECHNOLOGIES PVT. LTD. SATARA
22	PRATIKASHA CHANNE	SOURCE CODE TECHNOLOGY PVT. LTD. PUNE/SQUAREWAVE AUTOMATION TECHNOLOGIES PVT. LTD. SATARA
23	ARYAN BHOITE	TEST YANTRA SOFTWARE SOLUTIONS
24	ROHIT BHAPKAR	BORGWARD TECHNOLOGY
25	AMRUTA CHAVAN	S-TECH ELECTRONICS, SATARA
26	SANDHYA PATIL	S-TECH ELECTRONICS, SATARA
27	DURGA KADAM	S-TECH ELECTRONICS, SATARA
28	NAMRATA DESHPANDE	S-TECH ELECTRONICS, SATARA

29	OMKAR KADAM D	ARTIFICIAL MACHINES PVT. LTD
30	VRUSHALI DHAYGAVE	INNOTRINIX LABS & TRADING PVT. LTD, PUNE
31	RUPALI DESHMUKH	VARROC ENGINEERING, LTD, PUNE
32	POOJA MAHAMULKAR	VARROC ENGINEERING, LTD, PUNE
33	SNEHAL NIMBALAKAR	SKILL UP TECHNOLOGY, PUNE
34	SHWETA KATE	SKILL UP TECHNOLOGY, PUNE
35	SANKET NIKAM	BSA CORPORATION LTD, SATARA
36	KSHITIJA DAGADE	BSA CORPORATION LTD, SATARA
37	HARSHADA MAHAMULKAR	VARROC ENGINEERING, LTD, PUNE
38	SHIVAM SHINDE	PERFECT HOUSE PVT. LTD, SATARA
39	SANJIVANI ITHAPE	YANTRA TECHNOLOGIES PVT. LTD.
40	RIDDHI KARANJKAR	YANTRA TECHNOLOGIES PVT. LTD.
41	AKANKSHA NANAWARE	YANTRA TECHNOLOGIES PVT. LTD.
42	POOJA PAWAR	TRANSMONKE INDIA PVT. LTD., MUMBAI
43	ANIL JADHAV	WIPRO PARI LTD
44	ANISHA JAGATAP	VARROC ENGINEERING, LTD, PUNE
45	RUTIKA CHAVAN	TEST YANTRA SOFTWARE SOLUTION

Student Training Information (2021-22)

Sr No	Name of the Candidate	Name of the Company
1	BHINGARE RAKSHATA MAHADEV	PRICOL LIMITED
2	SHINDE PRAJAKTA KRUSHNA	SANDEN VIKAS PVT LTD, PUNE
3	SAWANT SHITAL MAHADEV	PRICOL LIMITED, WAGHOLI

4	CHAVAN PRIYANKA RAJENDRA	PRICOL LIMITED, WAGHOLI
5	MALI BHAGYASHREE RAGHUNATH	PRICOL LIMITED, WAGHOLI
6	URANE AKSHATA	VERSATILE SERVICES, CHAKAN
7	SHINDE MAYURI KRUSHNAT	PRECISE CONTROL SATARA
8	WAGHMARE AVINASH SHIVAJI	PRICOL LIMITED, WAGHOLI
9	JADHAV AKSHAY ARUN	PRICOL LIMITED, WAGHOLI
10	CHAVAN NAMRATA RAMDAS	PRICOL LIMITED, WAGHOLI
11	CHOUGULE AKASH SHRIMAN	PRICOL LIMITED, WAGHOLI
12	PAWAR KULDEEP SHIVAJI	VERSATILE SERVICES, CHAKAN
13	GOWARKAR RUTVIK AJIT	VERSATILE SERVICES, CHAKAN
14	KULKARNI VISHWAJEET AMOL	ABACUS ELECTRONICS PVT LTD, PUNE
15	BANDAL TUSHAR JAYWANT	VERSATILE SERVICES, CHAKAN
16	WAYDANDE VIDYA TULASHIRAM	CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT
17	JAGDALE KAJAL SOMNATH	AUTOCAD INDUSTRIAL SOLUTION PUNE
18	GAVALI MANISHA KRUSHNAT	SHUBHAM ENTERPRIZES, CHAKAN
19	NIKAM PRIYANKA CHANDRAKAT	OEN INDIA LTD CHAKAN
20	GURAV KANCHAN DATTATRAY	OEN INDIA LTD CHAKAN
21	WARAGADE MRUNALI DILIP	OEN INDIA LTD CHAKAN
22	DEOGHARE MRUNALI KISHOR	ELECMEC CONTROLS, MUMBAI
23	SHINGATE MAYURI CHANDRAKANT	OEN INDIA LTD CHAKAN
24	MANKAR KOMAL RAMCHANDRA	IN YANTRA TECHNOLOGIES PVT LTD, SHIRVAL
25	SURYAVANSHI PRAJAKTA PRATAP	IN YANTRA TECHNOLOGIES PVT LTD, SHIRVAL
26	CHAVAN POONAM MADHUKAR	B.S.N.L. CHINCHWAD PUNE
27	MAHADIK SAYALI YASHVANT	IN YANTRA TECHNOLOGIES PVT LTD, SHIRVAL
28	SHIRKE AMIT KRISHNA	OEN INDIA LTD CHAKAN
29	RAJPURE ABHIJIT SANJAY	OEN INDIA LTD CHAKAN

30	SHINDE AKSHAY SANJAY	OEN INDIA LTD CHAKAN
31	DESHMUKH RAJASHRI DAJIRAO	OEN INDIA LTD CHAKAN
32	CHAVAN TANAYA VISHWAS	PRICOL LTD PUNE
33	PATIL AKSHATA PANDURANG	OEN INDIA LTD CHAKAN
34	SALUNKHE RUSHIKESH RAMESH	OEN INDIA LTD CHAKAN
35	SALUNKHE ATUL MADHUKAR	PRICOL LTD PUNE

Student Training Information (2020-21)

Sr No	Name of the Candidate	Name of the Company
1	ANJALI SAHABERAO SANAS	USAS SOLUTIONS
2	PRAJAKTA DATTATRAY VIDHATE	USAS SOLUTIONS

Student Training Information (2020-21)

Sr No	Name of the Candidate	Name of the Company
1	JADHAV ANURADHA NARENDRA	BROOKON TECHNOLOGIES PVT LTD
2	SHINDE MAYURI	GREEN POWER SUGAR LTD
3	ABHISHEK	ABHISHEK ELECTRONICS
4	BABAR PARAG DILIP	NIPRO INDIA
5	POOJA DESHMUKH	POURNIMA INDUSTRIES

6	PHARANDE TEJASWEENI PHANMANT	RH ELECTRONICS
7	POONAM MADHUKAR CHAVAN	AMCON POWER INDUSTRIES
8	CHAVAN TANUJA VISHVAS	SAITRONICS
9	NAMRTA RAMDAS CHAVAN	MAGNEWIN ENERGY PVT LTD.
10	DESHMUKH RAJASHRI DAJIRAM	PRICISE CONTROLS
11	MOHITE CHAITANYA DNYANESHWAR	PRECISE AUTOMATION PVT LTD
12	MAHADIK SAYALI YASHWANT	ADARSH ELECTRONICS
13	SURYAVANSHI PRAJAKTA PRATAP	ADARSH ELECTRONICS
14	JADHAV ASHWINI SUDHAKAR	MAGNEWIN ENERGY PVT. LTD
15	KHARAT SHITAL SHASHIKANT	SAITRONICS
16	BHINGARE RAKSHATA MAHADEV	ACPL PVT. LIMITED
17	SHITAL SAWANT	DHOOT TRANSMISSION PVT. LTD
18	BANE SHUBHANGI NATHAJI	PRECISE PVT LTD
19	VIBHUTE POOJA DHONDIRAM	TRIMURTI STAMPINGS
20	AKSHATA. URANE	SAMSUNG GALAXY SHOP
21	DEOGHARE MRUNALI KISHOR	SAMSUNG GALAXY
22	PAWAR KULDEEP SHIVAJI.	PRECISE CONTROL PVT.LTD
23	RANKHAMBE MEGHA JALINDAR	APTRON TECH
24	SALUNKHE MAYURI TUKARAM	APTRON TECH
25	GURAV KANCHAN DATTATRAY	APTRON TECH SATARA
26	PAWAR PRASAD SANJAY	APTRON TECH
27	YADAV PRIYANKA MANOHAR	POURNIMA INDUSTRY
28	AKSHATA PANDURANG PATIL	SNEHA ELECTRONIC
29	MALI BHAGYASHRI RAGHUNATH	SP ELECTRICAL
30	WAYADANDE VIDYA TULSHIRAM	PRICES CONTROL

31	SALUNKHE SNEHAL VIJAY	PRECISE CONTROL PVT
32	JAMDADE SHRAVANI RAMESH	SHREE DHANANJAY ELECTRICAL'S ,SATARA.
33	PATIL AKSHATA PANDURANG	SNEHA ELECTRONICS
34	JADHAV AKSHAY	3 STAR SOLUTIONS

Student Training Information (2020-21)

Sr No	Name of the Candidate	Name of the Company
1	JADHAV NAMRATA PRAKASH	APTRON TECH
2	YUNUS CHANDSAHEB NADAF	APTRON TECH
3	BHANDE MAHENDRA PRAKASH	APTRON TECH
4	NIKAM AISHWARYA SHRIMANT	PRECISE CONTROL
5	KADAM SWATI PRATAP	PRECISE CONTROL
6	PRAJAKTA SHINDE	PRECISE CONTROLS
7	JADHAV VISHAKHA SHRIRANG	PRECISE CONRTOL
8	KADAM KIRAN VIKAS	PRECISE CONTROL
9	MANE PRIYANKA SURYAKANT	AV TECH SOLAR
10	YADAV NIKITA SANJAY	PRESICE CONTROL
11	PAWAR SNEHAL MAHADEV	PRECISE CONTROL PVT LTD
12	BANKAR NILAM PRADIP	PRECISE CONTROL

13	KUMBHAR PRADNYA SHANKAR	PRECISE CONTROL PVT.LTD.
14	SHINDE DHIRAJ	ASTAVINAYAK ENGINEERING
15	DESHPANDE AISHWARYA RAJENDRA	PRECISE CONTROL
16	CHABUKSWAR SANOVAR MOAJJAM	SAITRONICS
17	BHOSALE DHANASHREE MANOJ	DONBOSCO PRIVATE INDUSTRIAL TRAINING CENTER CHINCHWAD (E) PUNE 19
18	CHAVAN PRITI ANKUSH	DON BOSCO
19	NANDINI PRAPHULA MENGANE	APTRON TECH,
20	DHANASHREE MANOJ BHOSLE	DONBOSCO PRIVATE INDUSTRIAL TRAINING CENTER CHINCHWAD (E) PUNE 19
21	NMRATA CHAVAN	MAGNEWIN

Student Training Information (2019-20)

Sr No	Name of the Candidate	Name of the Company
1	JADHAV ANURADHA NARENDRA	BROOKON TECHNOLOGIES PVT LTD
2	JADHAV ALPESH ANADRAO	BROOKON TECHNOLOGIES PVT LTD
3	SALUNKHE MAYURI TUKARAM	NEXTECH AUTOMATION SOLUTIONS PVT.LTD
4	MEGHA JALINDER RANKHAMBE	NEXTECH AUTOMATION SOLUTIONS PVT.LTD
5	CHAVAN TANUJA VISHWAS	SONALI ELECTRONICS
6	BHAGYSHREE RAGHUNATH PATIL	AMCON POWER INDUSTRIES
7	JYOTI RAJKUMAR BHOSALE	AMCON POWER INDUSTRIES
8	SHRAVANI RAMESH JAMDARE	PRIME ENTERPRISES
9	SALUNKHE SNEHAL VIJAY	IDBI RESTI
10	AVINASH WAGHMARE	SONALI ELECTRONICS
11	JADHAV ASHWINI	SONALI ELECTRONICS
12	WAYADANDE VIDYA TULSHIRAM	SONALI ELECTRONICS
13	SHINDE MAYURI	SONALI ELECTRONICS


14	AKSHATA PATIL	DUTHGANGA SAHKARI SAKAHAR KHARKHANA BIDRI
15	KHARAT SHITAL SHASHIKANT	PATIL ENGINEERING SERVICES
16	PAWAR POOJA DATTATRAY	PATIL ENGINEERING SERVICES
17	PAWAR KULDEEP SHIVAJI	SHREE GANESH ECOTECH SYSTEM
18	VIBHUTE POOJA DHONDIRAM	IDBI RESTI
18	VISHWAJEET AMOL KULKARNI	NEW HKS ELECTRONICS
20	RAJASHRI DAJIRAM DESHMUKH	NEW HKS ELECTRONICS
21	RUTWIK AJIT GOWARKAR	NEW HKS ELECTRONICS
22	PRIYANKA YADAV	NEXTECH AUTOMATION SOLUTIONS PVT.LTD
23	PUJA SURESH DESHMUKH	NEXTECH AUTOMATION SOLUTIONS PVT.LTD
24	TUSHAR JAYWANT BANDAL	NEW HKS ELECTRONICS
25	KANCHAN DATTATRAY GURAV	NEXTECH AUTOMATION SOLUTIONS PVT.LTD
26	PRIYANKA CHAVAN	SONALI ELECTRONICS
27	SHINDE AKSHAY	SHREE GANESH ECOTECH SYSTEM
28	BHOITE AKASH	SHREE GANESH ECOTECH SYSTEM
29	AKSHAY JADHAV	POWER ELECTRONICS
30	RAJPURE ABHIJEET	POWER ELECTRONICS
31	SHIRKE AMIT KRISHNA	SHREE GANESH ECOTECH SYSTEM
32	SALUNKHE RUSHIKESH RAMESH	SHREE GANESH ECOTECH SYSTEM
33	TEJASWINI HANMANT PHARANDE	NEW HKS ELECTRONICS
34	SHITAL MAHADEV SAWANT	NEW HKS ELECTRONICS
35	SURYAWANSHI PRAJAKTA PRATAP	NEW HKS ELECTRONICS
36	MANKAR KOMAL RAMCHANDRA	NEW HKS ELECTRONICS
37	POONAM CHAVAN	MAYURESH INDUSTRIES
38	MAHADIK SAYALI YASHWANT	NEW HKS ELECTRONICS
39	AKASH CHOUGULE	MAYURESH INDUSTRIES
40	PRAJAKTA KRUSHNATH SHINDE	NEW HKS ELECTRONICS

41	RAKSHATA MAHADEV BHINGARE	NEW HKS ELECTRONICS
42	NAMRATA RAMDAS CHAVAN	NEW HKS ELECTRONICS
43	ATUL SALUNKHE	SONALI ELECTRONICS
44	MRUNALI KISHOR DEOGHARE	NEW HKS ELECTRONICS
45	AKSHATA MAHESH URANE	NEW HKS ELECTRONICS
46	MAYURI CHANDRAKANT SHINGTE	NEW HKS ELECTRONICS

Student Training Information (2018-19)


Sr No	Name of the Candidate	Name of the Company
1	KADAM KOMAL BHARAT	UNIVERSAL CONTROLS
2	SONALI RAJARAM NIMAJ	MUTHA ENGINEERING PVT LTD
3	PATIL RUTUJA DADASO	UNIVERSAL CONTROLS
4	SHIVANI SANJAY RAJSHIRKE	ENERGETIC SOLAR SYSTEM
5	JADHAV KAJAL MACHINDRANATH	SHREE DHANANJAY ELECTRICALS
6	AKSHAY LAXMAN NALAWADE	SAI INDUSTRIES
7	ABOLI RAJENDRA KESUGADE	PRECISE CONTROL
8	POOJA DIPAK SHINDE	SWASTIK ELECTROTECH AUTOMATION
9	SAPKAL DHANSHREE KEDARNATH	MUTHA ENGINEERING PVT LTD
10	NISHIGANDHA APPASO SAWANT	MUTHA ENGINEERING PVT LTD
11	PHALKE ASMITA MOHAN	SHREE DHANANJAY ELECTRICALS
12	PAWAR POOJA VASANT	SHREE DHANANJAY ELECTRICALS
13	POOJA SADASHIV PAWAR	MUTHA ENGINEERING PVT LTD

14	MORE DHANASHRI ASHOK	MAHADISCOM
15	SNEHAL SANJAY NALAWADE	PRECISE CONTROL
16	MULANI AFSANA GULAB	UNIVERSAL CONTROLS
17	SWARALI ARJUN THORAT	MUTHA ENGINEERING PVT LTD
18	MANE PRAGATI JAYSING	INDUTCH ELECTRICAL AND ELECTRONICS PVT LTD



SAMARTH EDUCATIONAL TRUST

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Founder Chairman
Hon. Mr. Arvind Gavali (Sawkar)

ARVIND GAVALI COLLEGE OF ENGINEERING

NAAC Accredited

Approved by AICTE, New Delhi & Govt. of Maharashtra & Affiliated to
Dr. Babasaheb Ambedkar Technological University, Lonere




Panmalewadi, Varye, Tal & Dist. - Satara. - 415015, Ph.No. : 02162 - 261122
 ■ Website : www.agce.edu.in ■ E-mail: agcenggsatara@gmail.com

INTERNSHIP / PROJECT RECORD BOOK

STUDENT	INDUSTRY
Student Name: <u>Karanjkar</u> <u>Riddhi Mahesh</u>	Industry Name : <u>InYantra</u> <u>Technologies Pvt., Ltd.</u>
Department : <u>BTech (E & TC)</u>	HR Manager Name : <u>Mr. Gaikwad</u>
Roll No.: <u>2065451372019</u>	Contact No.: <u>9762736485</u>

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



SAMARTH EDUCATIONAL TRUST
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 Dr.Babasaheb Ambedkar Technological University (BATU), Lonere.
 Website: www.agce sets.edu.in

• Address : At Panamalewadi, Post-Varge,
 Tal & Dist - Satara -415 015 (Maharashtra)
 • Phone : 02162 - 261122 , 200100
 • e-mail : agcegsatara@gmail.com
 • Institute Code : Engg DTE EN-4545
 • Poly Code : DTE DN-4545
 • Poly MSBTE-1617

Ref No.: AGCE /106

To: in Yantra Technologies Pvt., Ltd
At Shindewadi Post - Shirwal,
Tal - Khambhala Dist - Satara
Pin - 412 301

Subject : Request for Internship & Project in the Industry

Respected Sir,

The Samarth Educational Trust has been actively associated with Educational Activities since its inception in 1988 and is developing fast into a Prime Educational Centre in the Western region of Maharashtra. It has presently the following constituent institutes under its umbrella.


- Arvind Gavali College of Engineering & Polytechnic
- Sawkar Pharmacy College
- Sawkar Homoeopathic Medical College
- Arvind Gavali College of Pharmacy

To merge industry - institute gap, Dr.Babasaheb Ambedkar Technological University, Lonere have design Curriculum for B.Tech student to undergo Internship in the industry and carry out the Project/Assignment. This enables them to acquire practical knowledge and achieve Program Education Objective (PEOs). Internship & Project in the Industry provides exposure to the students as well as help them to develop their carrier in high - tech Industrial requirements, which leads to enhancement in their employability.

Student Name: Karanjkar Riddhi Mahesh Class B.Tech (E & TC)
 Contact No.: 9309174178 Email ID: riddhi.karanjkar.93@gmail.com
 Period from: 7 March 2023 to _____

The Institute shall be grateful for your kind co-operation.
 For any additional detail, please feel free to communicate with -
 Prof. Mr. Jagtap D.B. Mob: 9561042122

Thanking you



Yours truly



Principal
 Arvind Gavali College of Engineering
 A.G.C.E. Satara

Figure B.2.2.5 | Recommendation letter for industrial/summer training

Attendance Sheet				
Sr. No.	Date	Task Completed	Student's Signature	Officer's Signature
1.	7/3	Observation of PCB	P. S. Shinde	(Signature)
2.	8/3	Understood the steps of		
3.	9/3	First article inspection report • create sample		
4.	10/3	throughout component introduction		
5.	11/3	Two FAIR sheet done		
6.	13/3	Understood to take Gun temperature		
Sr. No.	Date	Task Completed	Student's Signature	Officer's Signature
1.	14/3	Take the Gun temp. of 3	P. S. Shinde	(Signature)
2.	15/3	GPRS board with sim card report filled up		
3.	16/3	Understood to calculate yield, ppm		
4.	17/3	Totheim-Relay		
5.	18/3	Pre-dispatch inspection learnt		
6.	20/3	Veotiv 48 VDC observed		
Sr. No.	Date	Task Completed	Student's Signature	Officer's Signature
1.	21/3	Visited SMT dept. of company	P. S. Shinde	(Signature)
2.	22/3	Veotiv 48 VDC FAIR		
3.	23/3	CEBL inspected		
4.	24/3	Ecozen 3HP power		
5.	25/3	48 VDC ? inspected @ 4 am		
6.	27/3	Load fuse fail with WVD		

Suggestions for Candidate by Company Internship Officer :

Name of Faculty Mentor : P. S. Shinde Name of Company Mentor : Rajesh Korde
 Signature of Faculty Mentor : (Signature) Signature of Company Mentor : (Signature)

Figure B.2.2.5 m Industrial/Internship/Summer training Attendance Sheet

Post Training Assessment:

Internal Assessment:

Understanding of Topics of training (10M)	Organization Skill(10M)	Topic Presentation Skill(10M)	Question/Answer (10M)	Training Report(10M)
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Industry Assessment:

325

To whom it may Concern

This is to certify that Mr./Ms. Karanjkar Riddhi Mahesh from F.Y.Sc./T.Y./B. Tech. of E & TC Department at Arvind Gavali College of Engineering, Satara has been working with inVantira Technologies Pvt, Ltd. as trainee/ stipendiary/ intern during 7 march 23 to 7 sept 2023

Below is performance of the candidate evaluated on following parameters for academic purpose.

Parameters	Needs Improvement	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		✓		
Demonstrates organizational skills			✓	
Uses technical knowledge and expertise			✓	
Shows good judgement		✓		
Demonstrates creativity/originality		✓		
Analyzes problems effectively		✓		
Is self-reliant			✓	
Communicates well		✓		
Writes effectively		✓		
Has a professional attitude			✓	
Gives a professional appearance			✓	
Is punctual			✓	
Uses time effectively			✓	

(Ref: AICTE Internship Policy Guidelines and Procedure Page 30)

We wish him/her every success in life.

Industry Mentor
 Name: Mr. Gaikwad S.
 Designation: HR
 Sign: [Signature]




Figure B.2.2.5 n. Industrial/Internship/summer training Assessment Sheet

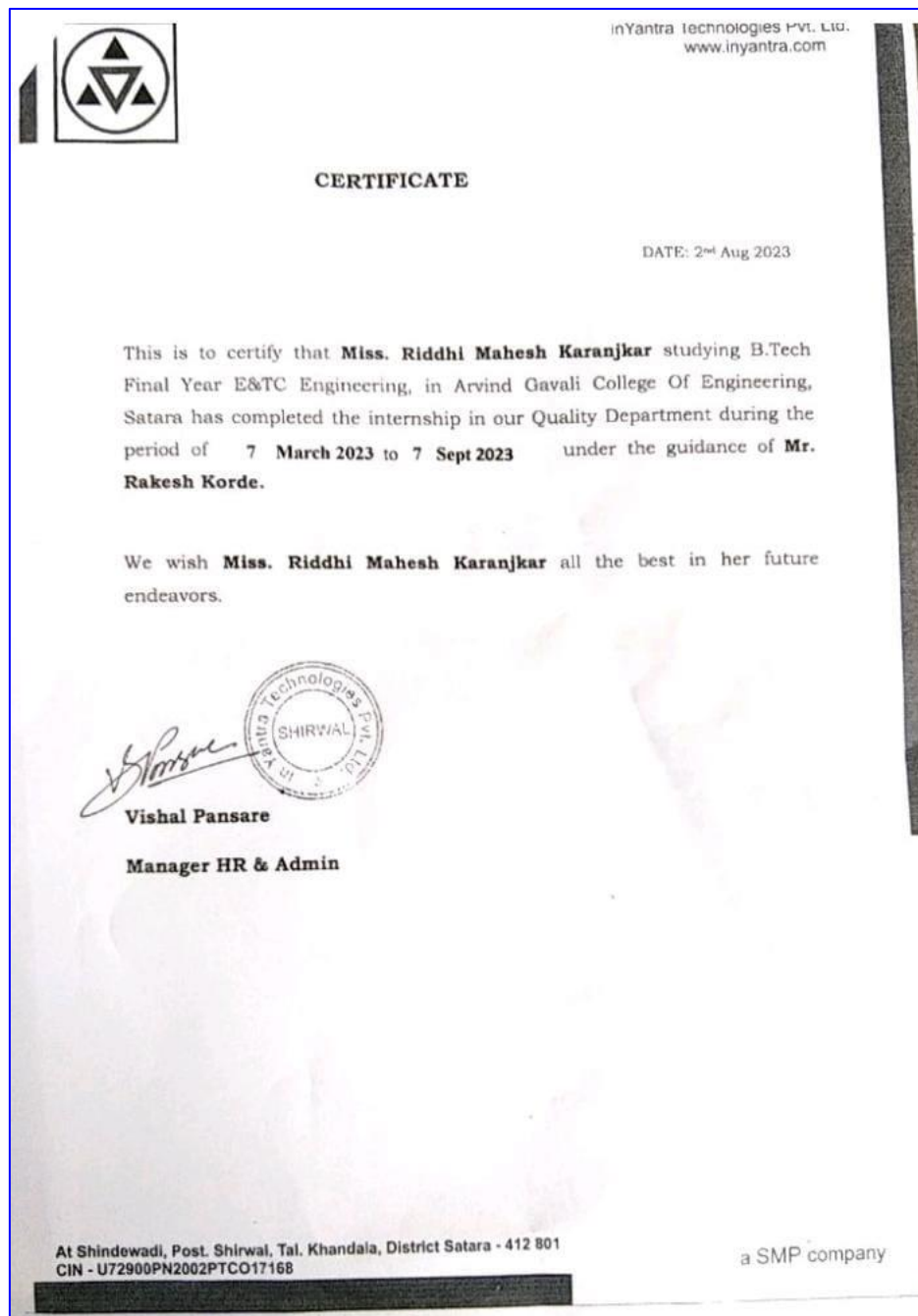


Figure B.2.2.5 o Industrial/Internship/Summer training completion certificate

Conclusion

In inYantra, this internship has been an excellent & rewarding experience. I can conclude that there have been a lot I have learnt from my work at inYantra. Two main things that I have learned the importance of time-management skills & self-motivation. I realized that I could have completed the work earlier than I did. I have seen the components like throughole & SMT also.


Internal Examiner


External Examiner

Subject		Internship / Project work	
CO	On completion of this course, students will be able to :		Cognitive Level
CO1	Identify engineering processes relevant to the industry		L1
CO2	Understand the modern tools and techniques used in all types of Industries.		L2
CO3	Study of the resources required and planning to facilitate Project management.		L2
CO4	Analysis of industrial ecosystem		L4

Target Level :-

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	-	3	-	2	2	-	3	-	-	2	2	2	2
CO2	2	2	1	-	-	-	-	-	-	-	-	2	1	-	-
CO3	2	2	2	-	-	-	-	-	-	-	-	2	2	-	-
CO4	1	-	-	-	-	-	3	-	-	-	2	-	2	-	-
Avg.	2	2.33	1.5	3	0	2	2.5	0	3	0	2	2	1.75	2	2

Attainment Level :-

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	1	2	2	-	3	2	3	-	3	2	3
CO2	2	2	1	2	1	-	-	-	1	2	3	-	3	1	1
CO3	2	-	-	-	-	1	2	1	-	-	-	-	-	-	2
CO4	1	-	-	2	2	-	-	-	-	-	1	2	-	-	-
Avg.	2	2.5	2	1.7	1.5	1.5	2	0.5	1	1	1.5	0.5	1.5	0.7	1.5

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



Figure B.2.2.5 q 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.
- Most of the student's undergone training has got recruited by different software & core companies.
- 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 team work and leadership skills.

C. 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 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**

Are you satisfied with training initiative? *

Yes

No

Have you received internship/ training letter from organization? *

Yes

No

Have you got guidance from supervisor/ senior 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? *

Yes

No

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 ? *

Yes

No

Suggestions *

Your answer

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Google Forms

Figure B.2.2.5 r Feedback Form of Industrial Training/Internship

CRITERION 03	COURSE OUTCOMES AND PROGRAM OUTCOMES	120
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3.1. Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20)

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

A. PROGRAM OUTCOMES (POs)

The students of Electronics and Telecommunication 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)

Electronics and Telecommunication Engineering graduates will be able to	
PSO1	Students will be able to analyse and design the electronics and telecommunication systems by understanding and applying the fundamental knowledge.
PSO2	Students will be able to contribute to projects in the core and associated domain by using modern tools like PCB design, embedded programming, etc.

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
SEM-3	Digital Logic Design (BTEXC305)	BTEXC305.1	Select various reduction technique to design combinational and sequential circuits
		BTEXC305.2	Use appropriate design steps to design finite state machine
		BTEXC305.3	Differentiate between digital logic families
		BTEXC305.4	Select PLD & Memories and use of VHDL for application
SEM-4	Analog Communication Engineering (BTEXC402)	BTEXC402.1	Understand the concepts of modulation and demodulation techniques.
		BTEXC402.2	Explain mathematical model of angle modulation.
		BTEXC402.3	Model AM Receiver & relate characteristics of receiver.
		BTEXC402.4	Classify various types of noise signals including AM, FM and PM.
SEM-5	Control System Engineering (BTEXC502)	BTEXC502.1	Understand basic elements of a control system and methods for analyzing the time response, the frequency response
		BTEXC502.2	Recall the concept of stability
		BTEXC502.3	Apply stability and its assessment for linear-time invariant systems
		BTEXC502.4	Analyze simple feedback controllers
SEM-6	Antenna and wave propagation (BTETC601)	BTETC601.1	Identify the basic terminology and concepts of antenna.
		BTETC601.2	Analyze radiation patterns of antennas and evaluate antennas for given specifications.

		BTETC601.3	Illustrate techniques for antenna parameter measurements
		BTETC601.4	Aware of the wave spectrum and respective band based antenna usage.
SEM-7	Digital Communication (BTETC701)	BTETC701.1	Use of information theory and coding for analysis of communication channel.
		BTETC701.2	Distinguish and analyze different source coding techniques.
		BTETC701.3	Explain and compare the baseband systems.
		BTETC701.4	Develop experiment with the different digital modulation techniques.
SEM-8	Internet of Things (BTETPE801A)	BTETPE801A.1	Identify the application areas and characteristics of IoT.
		BTETPE801A.2	Realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks
		BTETPE801A.3	Analyze big data advances, industry internet system, R and Julia Programming and data management with Hadoop.
		BTETPE801A.4	Implementation of IoT with Raspberry Pi.

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 3rd to the 8th semester. Record for all courses is available with the program.

CO-PO matrices

Course Name: BTEXC305												
Course Outcome	Programme Outcome PO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTEXC305.1	2	2	3	1	2							
BTEXC305.2		2	3	1	2							
BTEXC305.3		3										1
BTEXC305.4		2			3							1
Average	2	2	3	1	2						0	1
Course Name: BTEXC402												
Course Outcome	Programme Outcome PO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTEXC 402.1	3	1	2									
BTEXC 402.2	2	2	2									
BTEXC 402.3	2			2								1
BTEXC 402.4	2	1		3								1
Average	2.3	1.3	2.00	2.5								1.00

	Course Name: BTEXC502											
Course Outcome	Programme Outcome PO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTEXC502.1	3	2	2	1								3
BTEXC502.2	3	2	2	1								3
BTEXC502.3	3	2	3	2								3
BTEXC502.4	3	2	3	3								3
Average	3.00	2.00	2.50	1.75								3.00

	Course Name: BTETC601											
Course Outcome	Programme Outcome PO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTETC601.1	2	3			1						2	
BTETC601.2		3	3	2								
BTETC601.3	2	3	1		2						2	
BTETC601.4			3		3						1	
Average	2.00	3.00	2.33	2.00	2.00						1.67	

	Course Name: BTETC701											
Course Outcome	Programme Outcome PO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTETC701.1	3	1		3	1						2	
BTETC701.2	2			1	2	1						
BTETC701.3	1			3								
BTETC701.4	3		1		1	2						
Average	2	1	1	2	1	1.5					2	

	Course Name: BTETPE801A											
--	-------------------------	--	--	--	--	--	--	--	--	--	--	--

Course Outcome	Programme Outcome PO											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BTETPE801A.1	3				1							
BTETPE801A.2			3	2	3							
BTETPE801A.3		3	3	3	3							2
BTETPE801A.4			3		3							2
Average	3.00	3.00	3.00	2.50	2.50							2.00

CO-PSO matrices

Course Name: BTEXC305		
Course	PSO1	PSO2
BTEXC305.1	3	
BTEXC305.2	3	
BTEXC305.3		2
BTEXC305.4		2
Average	3	2

Course Name: BTEXC 402		
Course	PSO1	PSO2
BTEXC 402.1	2	
BTEXC 402.2	3	
BTEXC 402.3	2	2
BTEXC 402.4		
Average	2.00	2.00

Course Name: BTEXC502		
Course	PSO1	PSO2

BTEXC502.1	2	2
BTEXC502 .2	2	2
BTEXC502 .3	2	1
BTEXC502 .4	2	1
Average	2.00	1.50

Course Name: BTEXC601		
Course	PSO1	PSO2
BTEXC601.1	2	
BTEXC601.2	1	2
BTEXC601.3		
BTEXC601.4	2	
Average	1.67	2.00

Course Name: BTETC701		
Course	PSO1	PSO2
BTETC701.1		2
BTETC701.2		1
BTETC701.3	2	
BTETC701.4		
Average	1.0	1.5

Course Name: BTETPE801A		
Course	PSO1	PSO2
BTETPE801A .1	1	2
BTETPE801A .2		3
BTETPE801A .3		3
BTETPE801A .4		3
Average	1.00	2.75

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

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

Class	Course Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
FY SEM I	Engineering Mathematics-I(BTBS101)	2.75	1.75	2	1		1					1	1.5
	Engineering Physics(BTBS102)	1	2	1	1		1	1					1
	Engineering Graphics(BTES103)	1.67	3	2.5	1	1.67					2.5		2.5
	Communication Skills(BTHM104)	1				1.67	1.67		2		3		2.75
	Energy and Environment	2.33	1	2.5	1		1.5	3	2		2	1	

	Engineering(BTES105)												
	Basic Civil and Mechanical Engineering(BTES106)	2.25	1	1.5	1		1.5	1			1.67	1	
	Engineering Physics Lab(BTBS107L)	1	2	1	1		1	1		1			1
	Engineering Graphics Lab(BTES108L)	1.67	3	2.5	1	1.67				2.5	2.5		2.5
	Communication Skills Lab.(BTHM109L)	1				1	1		1.5		2.75		2
FY SEM II	Engineering Mathematics-II(BTBS201)	2.75	1.75	1	1.33		1					1	1.25
	Engineering Chemistry(BTBS202)	2.25	2				3	2		2			
	Engineering Mechanics(BTES203)	2.67	3	2			1			2			
	Computer Programming in C(BTES204)	1.75	1	2						2.5	2.5		
	Workshop Practices(BTES205)	3		1.67	2	2.33				2	1	1	1.67
	Basic Electrical and Electronics Engineering(BTES206)	3					1	2					
	Computer Programming Lab(BTES207L)	1.75	1	2						2.5	2.5		

	Engineering Chemistry Lab(BTBS208L)	2.25	2				3	2		2				
	Engineering Mechanics Lab(BTES209L)	2.67	3	2			1			2				
	Mini Project(BTES210P)	2.5	2			2.5	1	1	2.25	2.75	3			
SY SEM III	Engineering Mathematics-III (BTBSC301)	1	1.5	2		1.25				2		1	1.75	
	Analog Circuits (BTBSC302)	2.5	1	1.5	1	1.33						1		
	Electronic Devices & Circuits (BTBSC303)	2	1.67	2	1.33	2						1		
	Network Analysis (BTBSC304)	2	1	2	2	2						2.5		
	Digital Logic Design (BTBSC305)	2.5	2	3	1	2.33						1		
	Basic Human Rights (BTHM3401)			3		2			1	2	2			
	Analog Circuits Lab (BTEXL307)	2.5	2	2.25	2.25	1.75							1.5	
	Electronic Devices & Circuits Lab (BTEXL308)	2	1.67	2	1	1.5							1	
	Network Analysis Lab (BTEXL309)	2	2	2	2	1.5								1
	Digital Logic Design Lab (BTEXL310)	2	2.33	3	2.33	2								1
Electronics Workshop (BTEXW311)	2	2	2	2	1.5								1	

	Field Training/ Internship/Industrial Training Evaluation (BTES211P)	2.67	3	3	2	2.5	3	2	3	2.67	2.5	3	3
SY SEM IV	Electrical Machines and Instruments (BTEXC401)	2.33	2	2		3							
	Analog Communication Engineering (BTEXC402)	2.3	1.3	2.0	2.5								1.0
	Microprocessor (BTEXC403)	2	1	1.75	1.5	1							
	Signals and Systems (BTEXC404)	3	1	1	1								1.25
	Product Design Engineering (BTID405)	2	2	2	1		2			2	2		
	Numerical Methods and Computer Programming (BTBSC406)	1.33		2	2								
	Electrical Machines and Instruments Lab (BTEXL407)	1.33	2	2		3							
	Analog Communication Engineering Lab (BTEXL408)	3	2	2	2	2.5							2
	Microprocessor Lab (BTEXL409)	1.5		2.5	2								
	Signals and Systems Lab (BTEXL410)	1.67	2	1.67	2.5	1.5							2

	Soft-Skill Development (BTHML411)	1.00		2.00		2.00			1.75		2.25	2.00	
	Field Training/ Internship/Industrial Training(BTEXF412)	2.33	2.5	3	2.5	2	2.5	1.5	3	2.67	2.5	2	2.33
TY SEM V	Electromagnetic Field Theory (BTEXC501)	3	2	2.5	2.5								3
	Control System Engineering (BTEXC502)	3	2	2.5	1.75								3
	Computer Architecture (BTETC503)	1.33	2.75	2	1	2.67	3					2	
	Digital Signal Processing (BTEXC504)	3	2	2	2	3						2	
	Microcontroller and its Applications (BTEXC505)	1.75	2	1.5	2.25	2						1	
	Probability Theory and Random Processes (BTEXPE506A))	3	2	2	1.25								2
	Control System Engineering Lab (BTETL507)	2.75	2	1	1			1				1.33	2
	Digital Signal Processing Lab (BTETL508)	3	2.5	2	2.25	2	1			3	3	1	2

	Microcontroller and its Applications Lab (BTETL509)	3	2	2	2	2.5							
	Mini Project (BTETP510)	1.75	1.33	2	1.25	1.67		1	2	1	2		
	Seminar(BTETS511)	2.33		2.5		1					1	3	2
	Field Training/ Internship/Industrial Training Evaluation(BTEXF412)	2.33	2.5	3	2.5	2	2.5	1.5	3	2.67	2.5	2	2.33
TY SEM VI	Antennas and Wave Propagation (BTETC601)	2		2.33	2	2						1.67	
	Computer Network & Cloud Computing (BTETC602)	1.33	3	2	1	3	3					2	
	Digital Image Processing(BTETC603)	3	2	2.5	2.25								3
	Android Programming(BTETPE604F)	2.25	2	1.5	2	1.33							1
	Python Programming (BTETOE605E)	2	3	2.5		2.75						2	2
	Employability & Skill Development (BTHM606)	2	2				2	2	2		2		
	Computer Network & Cloud Computing Lab (BTETL607)	1.5	1.75	1.67	1	1.33						1	

	Android Programming Lab (BTETPE604F)	2.75	2.5	2	2		1.25	1.25		1.75	1.25		1.25
	Python Programming Lab (BTETL609)	2	3	2.5	3	2.75						0	2
	Mini-project (BTETP610)	1.75	1.33	2	1.25	1.67		1	2	1	2		
	Field Training/ Internship/ Industrial Training (BTETF611)	2.33	2.5	3	2.5	2	2.5	1.5	3	2.67	2.5	2	2.33
BTE CH SEM VII	Digital Communication (BTETC701)	2.25	1	1	2.33	2.33						2	
	Wireless Sensor Network	2		2	2	2.5				3		2.5	
	Embedded System Design (BTETPE703)	2	2	1.5	2	3				1			2
	Mechatronics (BTETPE704)	2.0		2.0	2.0	2.5				3.0		2.5	
	Financial Management (BTHM705)	2.5	2.25	2.5		2	2.5	2	2.5		1.5	2	1.5
	Satellite Communication Lab (BTETL706)	2.75		2	2	2	3		2				
	Embedded System Design Lab (BTETL707)	2.33	2	2	1.5	1						1	
	Mechatronics Lab (BTETL708)	2.75		2	2	2	3		2				

	Project Part I (BTETP709)	2.75	2	3	3	2.25	1.33	1.67	1	2	1.75	2	1.5
	Field Training/ Internship/Industrial Training Evaluation (BTETF611)	2	2	1.67	2	3		2		2	2	2	1.25
BTE CH SEM VIII	Introduction to Internet of Things (BTETPE801A)	1	2	2	1	2						1	
	Industrial Automation and Control (BTETPE802A)	3	3	3	2.5	2.5							2
	ACTUAL AVERAGE PO	2.2	2	2.1	1.7	2	1.9	1.6	2.1	2.1	2.2	1.6	1.8

Program level Course- PSO matrix:

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

Academic Year: 2022-23		Programme Specific Outcome (PSO)	
Class	Class	PSO1	PSO2
FY SEM 1	Engineering Mathematics-I(BTBS101)	1.0	1.0
	Engineering Physics(BTBS102)	2.0	2.0
	Engineering Graphics(BTES103)	1.0	
	Communication Skills(BTHM104)		1.0

	Energy and Environment Engineering(BTES105)		
	Basic Civil and Mechanical Engineering(BTES106)		
	Engineering Physics Lab(BTBS107L)	2.0	1.5
	Engineering Graphics Lab(BTES108L)	1.0	
	Communication Skills Lab.(BTHM109L)		
FY SEM II	Engineering Mathematics- II(BTBS201)	1.0	1.0
	Engineering Chemistry(BTBS202)		
	Engineering Mechanics(BTES203)		
	Computer Programming in C(BTES204)	1.0	
	Workshop Practices(BTES205)		
	Basic Electrical and Electronics Engineering(BTES206)	1.0	1.0
	Computer Programming Lab(BTES207L)	1.0	
	Engineering Chemistry Lab(BTBS208L)		
	Engineering Mechanics Lab(BTES209L)		
	Mini Project(BTES210P)	1.0	1.0
SY- SEMIII	Engineering Mathematics-III (BTBSC301)	2.0	1.0
	Analog Circuits (BTBSC302)	1.5	1.5
	Electronic Devices & Circuits (BTBSC303)	1.0	1.0
	Network Analysis (BTBSC304)	2.0	3.0
	Digital Logic Design (BTBSC305)	2.3	3.0
	Basic Human Rights (BTHM3401)	2.0	1.0
	Analog Circuits Lab (BTEXL307)	2.0	2.0
	Electronic Devices & Circuits Lab (BTEXL308)	1.0	1.0

	Network Analysis Lab (BTEXL309)	1.0	1.0
	Digital Logic Design Lab (BTEXL310)	3.0	2.3
SY- SEM IV	Electronics Workshop (BTEXW311)	2.0	2.0
	Field Training/ Internship/Industrial Training Evaluation (BTES211P)	2.7	2.0
	Electrical Machines and Instruments (BTEXC401)	2.0	2.0
	Analog Communication Engineering (BTEXC402)	2.3	2.0
	Microprocessor (BTEXC403)	3.0	1.0
	Signals and Systems (BTEXC404)	3.0	2.0
	Product Design Engineering (BTID405)	1.0	1.0
	Numerical Methods and Computer Programming (BTBSC406)	3.0	1.0
	Electrical Machines and Instruments Lab (BTEXL407)		
	Analog Communication Engineering Lab (BTEXL408)	2.0	2.0
TY- SEM V	Microprocessor Lab (BTEXL409)	1.5	1.8
	Signals and Systems Lab (BTEXL410)	2.0	1.3
	Soft-Skill Development (BTHML411)	1.0	
	Field Training/ Internship/Industrial Training (BTEXF412)	1.5	2.5
	Electromagnetic Field Theory (BTEXC501)	2.3	2.0
	Control System Engineering (BTEXC502)	2.0	1.5
	Computer Architecture (BTETC503)	1.7	1.5
	Digital Signal Processing (BTEXC504)	2.0	
Microcontroller and its Applications (BTEXC505)	2.0		

	Probability Theory and Random Processes (BTEXPE506A)	2.0	1.8
	Control System Engineering Lab (BTETL507)	2.0	2.0
	Digital Signal Processing Lab (BTETL508)	1.8	1.5
TY- SEM VI	Microcontroller and its Applications Lab (BTETL509)	3.0	2.0
	Mini Project (BTETP510)	2.0	1.5
	Seminar(BTETS511)	1.5	2.7
	Field Training/ Internship/Industrial Training Evaluation(BTEXF412)	1.5	2.5
	Antennas and Wave Propagation (BTETC601)	1.7	2.0
	Computer Network & Cloud Computing (BTETC602)	2.0	1.5
	Digital Image Processing(BTETC603)	3.0	3.0
	Android Programming(BTETPE604F)	2.0	1.5
	Python Programming (BTETOE605E)	1.0	3.0
	Employability & Skill Development (BTHM606)	2.0	2.0
	Computer Network & Cloud Computing Lab (BTETL607)	1.3	1.0
	Android Programming Lab (BTETPE604F)	3.0	1.0
BTech- SEM VII	Python ProgrammingLab (BTETL609)	2.0	2.0
	Mini-project (BTETP610)	2.0	1.5
	Field Training/ Internship/ Industrial Training(BTETF611)	1.5	2.5
	Digital Communication(BTETC701)	2.0	1.5
	Wireless Sensor Network	3.0	2.0

	Embedded System Design (BTETPE703)	1.8	2.0
	Mechatronics (BTETPE704)	3.0	2.0
	Financial Management(BTHM705)	2.5	1.3
	Satellite Communication Lab (BTETL706)	2.7	1.3
	Embedded System Design Lab(BTETL707)	3.0	
	Mechatronics Lab(BTETL708)	2.7	1.3
BTech- SEM VIII	Project Part I (BTETP709)	2.8	1.5
	Field Training/ Internship/Industrial Training Evaluation (BTETF611)	2.3	1.0
	Introduction to Internet of Things (BTETPE801A)	1.0	2.8

3.2 Attainment of Course Outcomes (50)

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

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

The key aspects in Outcome Based Education (OBE) are the assessment of course outcomes. At the initial stage of OBE implementation, the Course Outcomes (COs) for each course are defined based on the Program Outcome (POs) and other requirements. At the end of each course, the COs needs to be assessed and evaluated, to check whether it has been attained or not. Assessment is one more processes, carried out by the department, that identify, collect, and prepare data to evaluate the achievement of program educational objectives and program outcomes. Attainment is the action or fact of achieving a standard result towards accomplishment of desired goals. Primarily attainment is the standard of academic attainment as observed by test or examination result. Attainment of the COs can be measured by using direct and indirect tools. Direct attainment basically displays the student's knowledge and skills

from their academic performance. It can be determined from the performance of the students in all the relevant assessment tools – like internal assessments, assignments, quiz and final university examination etc. These methods provide a sampling of what students know and /or actions they can perform, offering substantial.

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

Major types of courses are

1. 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

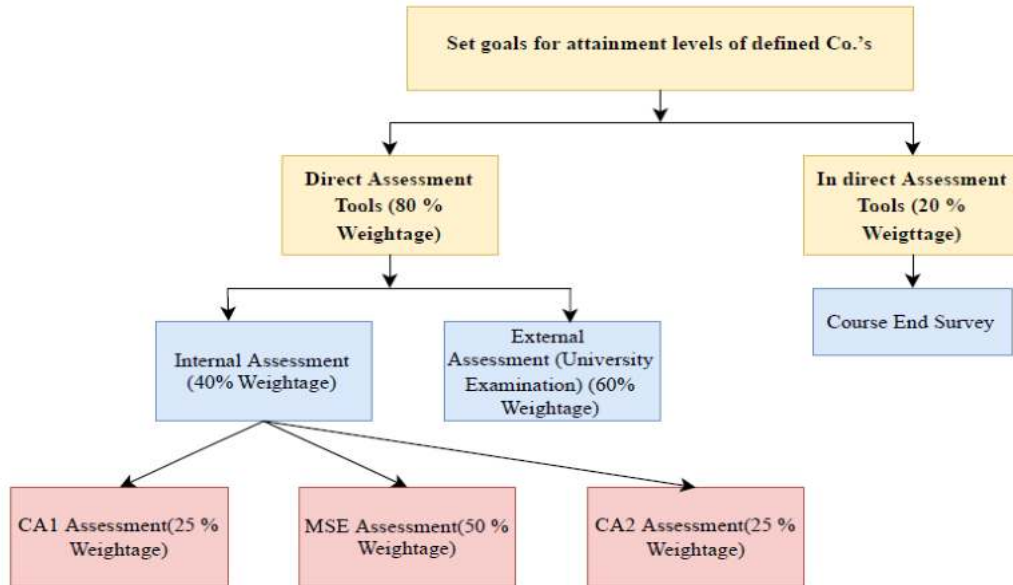


Fig1.Process of defining CO attainment Theory examination

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

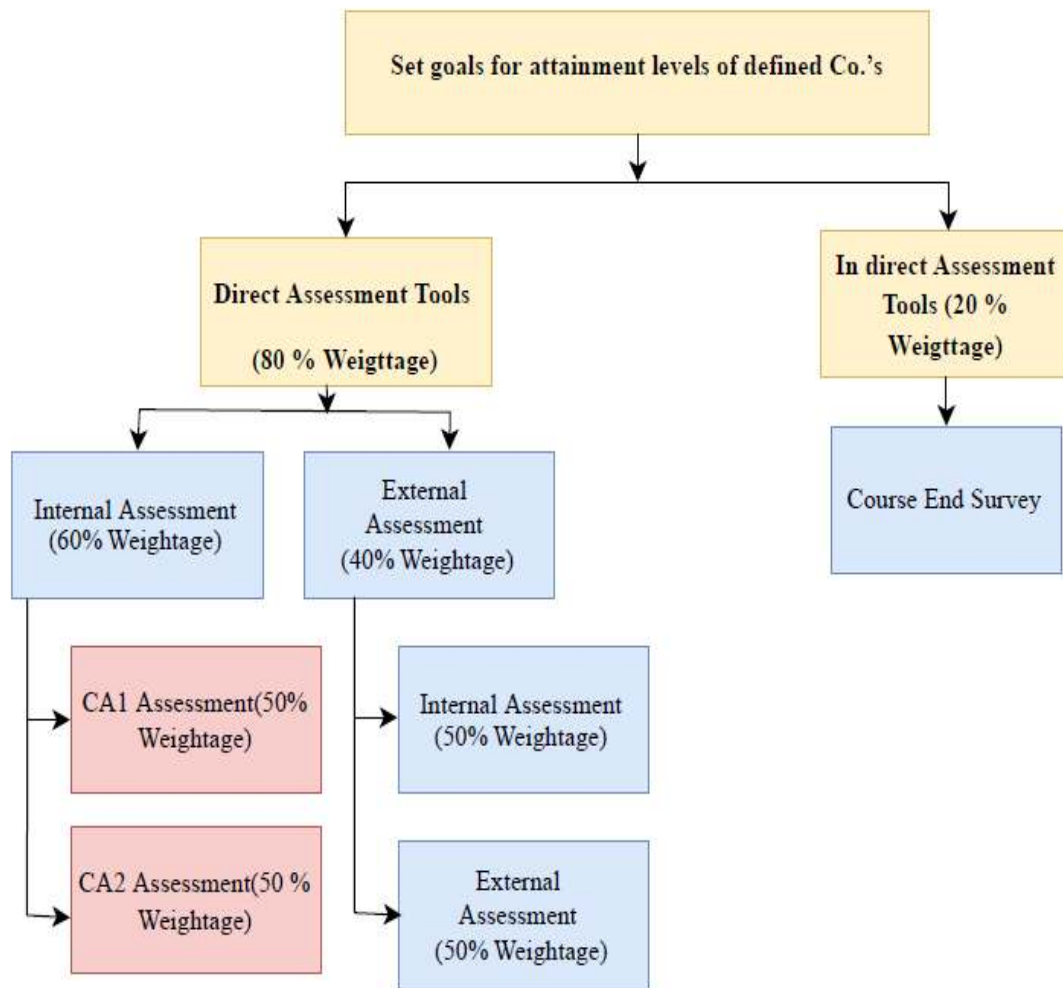


Fig 2. Process of defining CO attainment practical examination

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

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

Theory

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

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

(40)

Course Name: Digital Logic Design Year: 2020-21 Course Name: BTEXC305 Sem-III						
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Final Direct Course Attainment	Target	Remark
C305.1	[CA1]/ [CA2]/ [ESE]	1.1	3	2.90	1.8	Attained
C305.2		1.2	3	3.00	1.8	Attained
C305.3		1.2	3	3.00	1.8	Attained
C305.4		1.2	3	3.00	1.8	Attained

Course Outcome

Attainment: 2.98

Course Name: Analog Communication Engineering Year: 2020-21 Course Code: BTEXC402 Sem-IV						
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
C402.1	[CA1]/ [CA2]/ [ESE]	1.1	3	2.90	1.8	Attained
C402.2		1.15	3	2.95	1.8	Attained
C402.3		1.2	3	3.00	1.8	Attained
C402.4		1.2	3	2.90	1.8	Attained

Course Outcome

Attainment: 2.96

Course Name: Control System Engineering						
Year: 2021-22						
Course Code: BTEXC502			Sem-V			
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
BTEXC502.1	[CA1]/ [CA2]/ [ESE]	1.2	2	2.40	1.9	Attained
C504.2		1.2	2	2.40	1.9	Attained
C504.3		1.2	2	2.40	1.9	Attained
C504.4		1	2	2.20	1.9	Attained

Course Outcome

Attainment: 2.35

Course Name: Antenna and wave propagation						
Year Year: 2021-22						
Course Code:BTETC601						
Sem-VI						
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
C603.1	[CA1]/ [CA2]/ [ESE]	1.2	3	3.00	1.9	Attained
C603.2		1.15	3	2.95	1.9	Attained
C603.3		1.2	3	2.95	1.9	Attained
C603.4		1.2	3	3.00	1.9	Attained

Course Outcome

Attainment: 2.98

Course Name: Digital Communication	
Year: 2022-23	
Course Code: BTETC701	Sem-VII

Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
C704B.1	[CA1]/ [CA2]/ [ESE]	1.2	2	2.40	2.1	Attained
C704B.2		1.15	2	2.35	2.1	Attained
C704B.3		1.1	2	2.30	2.1	Attained
C704B.4		1	2	2.20	2.1	Attained

**Course Outcome
Attainment: 2.31**

Course Name: Internet Of Things						
Year : 2022-23						
Course Code: BTETPE801A					Sem-VIII	
Course Outcomes	Assessment Tools	Internal Assessment Attainment	University Result Attainment	Course Attainment	Target	Remark
E801A.1	[CA1]/ [CA2]/ [ESE]	1.2	3	3.00	2.1	Attained
E801A .2		1.15	3	2.95	2.1	Attained
E801A.3		1.2	3	2.95	2.1	Attained
E801A.4		1.2	3	3.00	2.1	Attained

Course Outcome

Attainment: 2.98

Course No	Course Name	CO1	CO2	CO3	CO4	Average CO Attained
BTBSC301	Engineering Mathematics-III	2.99	2.84	2.80	2.85	2.87
		Attained	Attained	Attained	Attained	Attained
BTEXC302	Analog Circuits	2.96	2.87	2.87	2.74	2.86

		Attained	Attained	Attained	Attained	Attained
BTEXC303	Electronic Devices & Circuits	2.88	2.89	2.81	2.81	2.85
		Attained	Attained	Attained	Attained	Attained
BTEXC304	Network Analysis	2.70	2.69	2.91	2.75	2.76
		Attained	Attained	Attained	Attained	Attained
BTEXC305	Digital Logic Design	2.68	2.75	2.93	2.83	2.8
		Attained	Attained	Attained	Attained	Attained
<i>BTHM3401</i>	Basic Human	2.95	2.85	2.85	2.12	2.90
		Attained	Attained	Attained	Attained	Attained
BTEXL307	Analog Circuits Lab	2.98	2.39	2.85	2.41	2.66
		Attained	Attained	Attained	Attained	Attained
BTEXL308	Electronic Devices & Circuits Lab	2.89	2.37	2.89	2.41	2.64
		Attained	Attained	Attained	Attained	Attained
BTEXL309	Network Analysis Lab	2.90	2.41	2.86	2.35	2.63
		Attained	Attained	Attained	Attained	Attained
BTEXL310	Digital Logic Design Lab	2.91	2.39	2.85	2.34	2.62
		Attained	Attained	Attained	Attained	Attained
BTEXW311	Electronics Workshop	2.90	2.43	2.90	2.45	2.67
		Attained	Attained	Attained	Attained	Attained
BTES211P	Field Training /Internship /Industrial Training Evaluation	2.11	2.55	2.07	2.50	2.33
		Attained	Attained	Attained	Attained	Attained
BTEXC401	Electrical Machines and Instruments	3.00	2.80	2.88	2.65	2.83
		Attained	Attained	Attained	Attained	Attained
BTEXC402		2.84	2.82	2.82	2.66	2.79

	Analog Communication Engineering	Attained	Attained	Attained	Attained	Attained
BTEXC403	Microprocessor	2.84	2.85	2.9	2.73	2.83
		Attained	Attained	Attained	Attained	Attained
BTEXC404	Signals and Systems	2.88	2.79	2.85	2.65	2.79
		Attained	Attained	Attained	Attained	Attained
BTID405	Product Design Engineering	2.94	2.83	2.38	2.83	2.74
		Attained	Attained	Attained	Attained	Attained
BTBSC406	Numerical Methods and Computer Programming	2.91	2.81	2.84	2.69	2.81
		Attained	Attained	Attained	Attained	Attained
BTEXL407	Electrical Machines and Instruments Lab	2.87	2.89	2.89	2.90	2.89
		Attained	Attained	Attained	Attained	Attained
BTEXL408	Analog Communication Engineering Lab	2.98	2.91	2.83	2.81	2.88
		Attained	Attained	Attained	Attained	Attained
BTEXL409	Microprocessor Lab	2.9	2.44	2.94	2.46	2.68
		Attained	Attained	Attained	Attained	Attained
BTEXL410	Signals and Systems Lab	2.9	2.44	2.94	2.46	2.68
		Attained	Attained	Attained	Attained	Attained
BTHML411	Soft-Skill Development	1.07	1.08	1.08	1.12	1.09
		Attained	Attained	Attained	Attained	Attained
BTEXF412	Field Training /Internship /Industrial Training Evaluation	2.11	2.55	2.07	2.50	2.33
		Attained	Attained	Attained	Attained	Attained
BTEXC501	Electromagnetic Field Theory	2.85	2.85	2.89	2.87	2.86
		Attained	Attained	Attained	Attained	Attained

BTEXC502	Control System Engineering	2.77	2.84	2.86	2.63	2.78
		Attained	Attained	Attained	Attained	Attained
BTETC503	Computer Architecture	2.39	2.31	2.29	2.2	2.3
		Attained	Attained	Attained	Attained	Attained
BTEXC504	Digital Signal Processing	2.72	2.73	2.78	2.72	2.74
		Attained	Attained	Attained	Attained	Attained
BTEXC505	Microcontroller and its Applications	2.89	2.84	2.89	2.86	2.87
		Attained	Attained	Attained	Attained	Attained
BTEXPE506C	Data Structure & Algorithms Using Java Programming	2.83	2.83	2.86	2.74	2.82
		Attained	Attained	Attained	Attained	Attained
BTETL507	Control System Engineering Lab	2.95	2.4	2.91	2.4	2.66
		Attained	Attained	Attained	Attained	Attained
BTETL508	Digital Signal Processing Lab	2.94	2.46	2.93	2.47	2.7
		Attained	Attained	Attained	Attained	Attained
BTETL509	Microcontroller and its Applications Lab	2.94	2.46	2.95	2.48	2.71
		Attained	Attained	Attained	Attained	Attained
BTETP510	Mini Project	2.25	2.86	2.23	2.89	2.56
		Attained	Attained	Attained	Attained	Attained
BTETS511	Seminar	2.34	2.65	2.65	2.97	2.66
		Attained	Attained	Attained	Attained	Attained
BTEXF412	Field Training /Internship /Industrial Training Evaluation	2.86	2.88	2.87	3	2.9
		Attained	Attained	Attained	Attained	Attained
BTETC601	Antennas and Wave Propagation	2.85	2.85	2.85	2.85	2.85
		Attained	Attained	Attained	Attained	Attained

BTETC602	Computer Network & Cloud Computing	2.38	2.31	2.29	2.22	2.3
		Attained	Attained	Attained	Attained	Attained
BTETC603	Digital Image Processing	2.71	2.73	2.61	2.71	2.69
		Attained	Attained	Attained	Attained	Attained
BTETPE604C	Power Electronics	2.78	2.8	2.91	2.77	2.82
		Attained	Attained	Attained	Attained	Attained
BTETOE605E	Python Programming	2.39	2.31	2.29	2.21	2.3
		Attained	Attained	Attained	Attained	Attained
BTHM606	Employability & Skill Development	2.81	2.85	2.89	2.89	2.86
		Attained	Attained	Attained	Attained	Attained
BTETL607	Computer Network & Cloud Computing Lab	2.39	2.32	2.29	2.22	2.3
		Attained	Attained	Attained	Attained	Attained
BTETOE605E	Python Programming	2.39	2.31	2.29	2.21	2.3
		Attained	Attained	Attained	Attained	Attained
BTETL609	Python Programming Lab	2.39	2.31	2.29	2.21	2.3
		Attained	Attained	Attained	Attained	Attained
BTETP610	Mini-project	2.25	2.89	2.24	2.87	2.56
		Attained	Attained	Attained	Attained	Attained
BTETF611	Field Training/Internship/Industrial Training	2.84	2.85	2.88	2.92	2.87
		Attained	Attained	Attained	Attained	Attained
BTETC701	Digital Communication	2.39	2.31	2.29	2.21	2.3
		Attained	Attained	Attained	Attained	Attained
BTETPE702	Wireless Sensor Network	2.64	2.84	2.58	2.94	2.75
		Attained	Attained	Attained	Attained	Attained

BTETPE703	Embedded System Design	2.56	2.76	2.51	2.9	2.68
		Attained	Attained	Attained	Attained	Attained
BTETPE704	Mechatronics	2.8	2.83	2.89	2.89	2.85
		Attained	Attained	Attained	Attained	Attained
BTHM705	Financial Management	2.39	2.31	2.29	2.21	2.3
		Attained	Attained	Attained	Attained	Attained
BTETL706	Wireless Sensor Network	2.94	2.46	2.95	2.48	2.71
		Attained	Attained	Attained	Attained	Attained
BTETL707	Embedded System Design Lab	2.9	2.96	2.86	2.91	2.91
		Attained	Attained	Attained	Attained	Attained
BTETL708	Mechatronics Lab	2.91	2.9	2.45	2.43	2.67
		Attained	Attained	Attained	Attained	Attained
BTETP709	Project Part I	2.82	2.83	2.93	2.85	2.85
		Attained	Attained	Attained	Attained	Attained
BTETF611	Field Training/ Internship/Industrial Training Evaluation	2.82	2.83	2.93	2.85	2.85
		Attained	Attained	Attained	Attained	Attained
BTETPE801A	Introduction to the Internet of Things	2.39	2.31	2.29	2.21	2.3
		Attained	Attained	Attained	Attained	Attained
BTETPE802A	Industrial Automation and Control	2.92	2.9	2.94	2.85	2.9
		Attained	Attained	Attained	Attained	Attained

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

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

(Describe the assessment tools and processes used to gather the data upon which the

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

List of PO and PSO Assessment Tools:

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

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

Direct Assessment methods:

CO attainment of course shows knowledge and skills obtained by students from respective courses derived from their performance in the continuous assessment, unit tests, online examinations, 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 stakeholders like employer, alumni etc is taken to know the capabilities and necessary improvements.

For e.g.

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

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

Process for Evaluation and Assessment of POs & PSOs

- The activity, questionnaires and frequency of feedback is defined by the Program for POs and
- PSOs attainment through 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

$$\text{PO/PSO Attainment} = 0.8 * \text{Direct Attainment} + 0.2 * \text{Indirect Attainment}$$

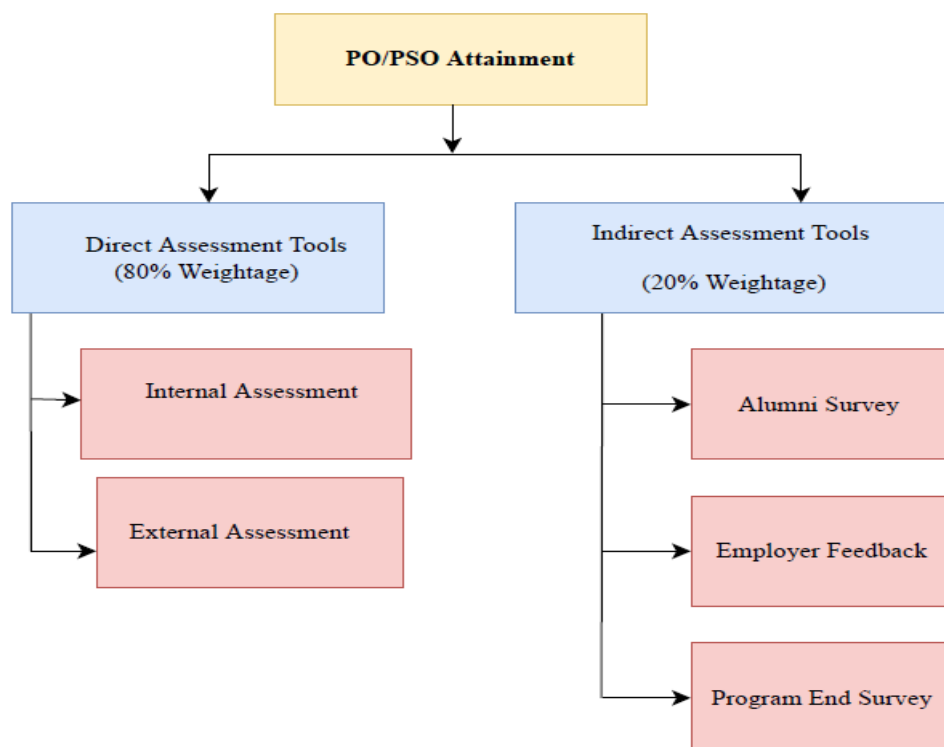


Fig 3 Process of defining PO/PSO Attainment

➤ **Direct Assessment Tools:**

Continuous Assessment Test1[CA1]

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

➤ **Indirect Assessment Tools:**

Course End Survey
Program End Survey
Employer Feedback
Examiner Feedback

3.3.2. Provide results of evaluation of each PO&PSO

(40)

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

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

PO Attainment:

Course Name & Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Engineering Mathematics-I	2.89	2.89	2.85	2.85		2.85					2.85	2.88
Engineering Physics	2.88	2.79	2.76	2.76		2.96	2.96					2.76
Engineering Graphics(BTES103)	2.92	2.92	2.91	2.91	2.91					2.92		2.92
Communication Skills(BTHM104)	2.93				2.89	2.87		2.88		2.9		2.89
Energy and Environment Engineering(BTES105)	2.89	2.92	2.83	2.92		2.91	2.88	2.93		2.86	2.92	
Basic Civil and Mechanical	2.87	2.93	2.73	2.73		2.73	2.93			2.81	2.73	

Engineering(BTES106)												
Engineering Physics Lab(BTBS107L)	2.71	2.47	2.95	2.95		2.94	2.94		2.95			2.95
Engineering Graphics Lab(BTES108L)	2.42	2.29	2.33	2.37	2.42				2.13	2.61		2.33
Communication Skills Lab.(BTHM109L)	2.95					2.45	2.95		2.78		2.68	2.63
Engineering Mathematics-II(BTBS201)	2.7	2.7	2.81	2.67			2.87				2.87	2.72
Engineering Chemistry(BTBS202)	2.72	2.57					2.85	2.67		2.57		
Engineering Mechanics(BTES203)	2.89	2.89	2.91				2.85			2.85		
Computer Programming in C(BTES204)	2.85	2.89	2.71						2.78	2.87		
Workshop Practices(BTES205)	2.93		2.93	2.93	2.93				2.93	2.93	2.93	2.93
Basic Electrical and Electronics Engineering(BTES206)	2.85						2.85	2.85				
Computer Programming Lab(BTES207L)	2.64	2.45	2.93						2.74	2.45		
Engineering Chemistry Lab(BTBS208L)	3	3					3	3		3		
Engineering Mechanics Lab(BTES209L)	2.5	2.5	2.45				2.52			2.52		
Mini Project(BTES210P)	2.94	2.86				2.84	2.84	2.72	2.84	2.85	2.85	
Engineering Mathematics-III (BTBSC301)	2.8	2.95	2.84			2.87				2.84		2.84 2.88

Analog Circuits (BTBSC302)	2.86	2.86	2.84	2.86	2.89						2.81	
Electronic Devices & Circuits (BTBSC303)	2.86	2.84	2.85	2.83	2.81						2.81	
Network Analysis (BTBSC304)	2.79	2.77	2.69	2.81	2.74						2.72	
Digital Logic Design (BTBSC305)	2.88	2.86	2.88	2.88	2.86						2.88	
Basic Human Rights (BTHM3401)			2.85		2.95			2.95	2.85	2.95		
Analog Circuits Lab (BTEXL307)	2.73	2.68	2.65	2.71	2.71						2.76	
Electronic Devices & Circuits Lab (BTEXL308)	2.82	2.75	2.7	2.62	2.61						2.79	
Network Analysis Lab (BTEXL309)	2.95	2.45	2.94	2.47	2.78							2.48
Digital Logic Design Lab (BTEXL310)	2.95	2.67	2.62	2.67	2.65							2.71
Electronics Workshop (BTEXW311)	2.95	2.45	2.94	2.47	2.78							2.48
Field Training/ Internship/Industrial Training Evaluation (BTES211P)	2.37	2.3	2.55	2.55	2.37	2.33	2.55	2.33	2.45	2.24	2.52	2.3
Electrical Machines and Instruments (BTEXC401)	2.92	2.73	2.84		2.88							
Analog Communication Engineering (BTEXC402)	2.8	2.8	2.8	2.7								2.7
Microprocessor (BTEXC403)	2.82	2.77	2.8	2.75	2.8							
Signals and Systems (BTEXC404)	2.79	2.79	2.79	2.88								2.81
Product Design Engineering (BTID405)	2.46	2.48	2.95	2.94		2.95			2.46	2.95	0	0
Numerical Methods and Computer	2.82		2.84	2.82								

Programming (BTBSC406)												
Electrical Machines and Instruments Lab (BTEXL407)	2.82	2.6	2.7		2.94							
Analog Communication Engineering Lab (BTEXL408)	2.45	2.6	2.82	2.47	2.75						2.45	
Microprocessor Lab (BTEXL409)	2.94		2.76	2.55								
Signals and Systems Lab (BTEXL410)	2.84	2.45	2.66	2.47	2.61						2.7	
Soft-Skill Development (BTHML411)	1.09		1.09		1.09			1.08		1.09	1.08	
Field Training/ Internship/Industrial Training(BTEXF41 2)	2.38	2.38	2.42	2.26	2.41	2.24	2.38	2.29	2.27	2.38	2.27	2.41
Electromagnetic Field Theory (BTEXC501)	3	2	2.5	2.5								3
Control System Engineering (BTEXC502)	2.0	2.3	1.5	1.3	1.7						1.0	1.0
Computer Architecture (BTETC503)	1.33	2.75	2	1	2.67	3					2	
Digital Signal Processing (BTEXC504)	3	2	2	2	3						2	
Microcontroller and its Applications (BTEXC505)	1.75	2	1.5	2.25	2						1	
Probability Theory and Random Processes (BTEXPE506A)	2.96	2.96	2.96	2.96								2.96

Control System Engineering Lab (BTETL507)	2.75	2	1	1			1				1.33	2
Digital Signal Processing Lab (BTETL508)	2.75	2.73	2.75	2.76	2.75	2.75			2.75	2.75	2.75	2.75
Microcontroller and its Applications Lab (BTETL509)	2.74	2.79	2.82	2.82	2.76							
Mini Project (BTETP510)	1.75	1.33	2	1.25	1.67		1	2	1	2		
Seminar(BTETS511)	2.33		2.5		1					1	3	2
Field Training/ Internship/Industrial Training Evaluation(BTEXF 412)	2.38	2.38	2.42	2.26	2.41	2.24	2.38	2.29	2.27	2.38	2.27	2.41
Antennas and Wave Propagation (BTETC601)	2	3	2.33	2	2						1.67	
Computer Network & Cloud Computing (BTETC602)	1.33	3	2	1	3	3					2	
Digital Image Processing(BTETC 603)	3	2	2.5	2.25								3
Android Programming(BTE TPE604F)	2.25	2	1.5	2	1.33							1
Python Programming (BTETOE605E)	2.83	2.83	2.83		2.83						2.85	2.85
Employability & Skill Development (BTHM606)	2	2				2	2	2		2		
Computer Network & Cloud Computing Lab (BTETL607)	1.5	1.75	1.67	1	1.33						1	
Android Programming Lab (BTETPE608F)	2.75	2.5	2	2		1.25	1.25		1.75	1.25		1.25
Python ProgrammingLab (BTETL609)	2.7	2.7	2.7	2.7	2.7							2.5
Mini-project	1.75	1.33	2	1.25	1.67		1	2	1	2		

(BTETP610)												
Field Training/ Internship/ Industrial Training(BTETF611)	2.38	2.38	2.42	2.26	2.41	2.24	2.38	2.29	2.27	2.38	2.27	2.41
Digital Communication(BT ETC701)	3.0	3.0	3.0	2.5	2.5							2.0
Wireless Sensor Network	2.0		2.0	2.0	2.5				3.0		2.5	
Embedded System Design (BTETPE703)	2.0	2.0	1.5	2.0	3.0				1.0			2.0
Mechatronics (BTETPE704)	2.0		2.0	2.0	2.5				3.0		2.5	
Financial Management(BTH M705)	2.5	2.3	2.5		2.0	2.5	2.0	2.5		1.5	2.0	1.5
Wireless Sensor Network	2.6		2.5	2.5	2.4	2.9		2.4				
Embedded System Design Lab(BTETL707)	2.8	2.7	2.7	2.6	2.7						2.9	
Mechatronics Lab(BTETL708)	2.6		2.5	2.5	2.4	2.9		2.4				
Project Part I (BTETP709)	2.75	2	3	3	2.25	1.33	1.67	1	2	1.75	2	1.5
Field Training/ Internship/Industrial Training Evaluation (BTETF611)	2.4	2.4	2.4	2.3	2.4		2.4		2.3	2.4	2.3	2.4
Introduction to Internet of Things (BTETPE801A)	1	2	2	1	2						1	
Industrial Automation and Control (BTETPE802A)	3	3	3	2.5	2.5							2
Approximate Attainment	2.56	2.53	2.51	2.36	2.47	2.63	2.25	2.29	2.41	2.34	2.24	2.33
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12

CO Attainment	2.52	2.45	2.38	2.33	2.42	2.56	2.19	2.21	2.32	2.26	2.21	2.31
Direct Attainment	2.56	2.53	2.51	2.36	2.47	2.63	2.25	2.29	2.41	2.34	2.24	2.33
Indirect Attainment	2.41	2.28	1.97	2.21	2.33	2.36	2.20	1.95	2.17	1.97	2.16	2.28

Year & Sem	Course code	Course	PSO1	PSO2
FY SEM1	BTBS101	Engineering Mathematics-I	2.93	2.85
	BTBS102	Engineering Physics	2.96	2.83
	BTES103	Engineering Graphics	2.92	
	BTHM104	Communication Skills		2.93
	BTES105	Energy and Environment Engineering		
	BTES106	Basic Civil and Mechanical Engineering		
	BTBS107L	Engineering Physics Lab	2.94	2.94
	BTES108L	Engineering Graphics Lab	2.13	
	BTHM109L	Communication Skills Lab.		

FY SEMII	BTBS201	Engineering Mathematics- II	2.87	2.87
	BTBS202	Engineering Chemistry		
	BTES203	Engineering Mechanics		
	BTES204	Computer Programming in C	2.85	
	BTES205	Workshop Practices		
	BTES206	Basic Electrical and Electronics Engineering	2.93	2.85
	BTES207L	Computer Programming Lab	2.45	
	BTBS208L	Engineering Chemistry Lab		
	BTES209L	Engineering Mechanics Lab		
	BTES210P	Mini Project	2.84	2.72
SY- SEMIII	BTBSC301	Engineering Mathematics-III	2.92	2.88
	BTBSC302	Analog Circuits	2.88	2.87
	BTBSC303	Electronic Devices & Circuits	2.85	2.89
	BTBSC304	Network Analysis	2.77	2.70
	BTBSC305	Digital Logic Design	2.88	2.84
	BTHM3401	Basic Human Rights	2.95	2.85
	BTEXL307	Analog Circuits Lab	2.45	2.43
	BTEXL308	Electronic Devices & Circuits Lab	2.70	2.70

	BTEXL309	Network Analysis Lab	2.95	2.45
	BTEXL310	Digital Logic Design Lab	2.62	2.60
	BTEXW311	Electronics Workshop	2.45	2.94
	BTES211P	Field Training/ Internship/Industrial Training Evaluation	2.42	2.33
SY- SEM IV	BTEXC401	Electrical Machines and Instruments	2.80	2.90
	BTEXC402	Analog Communication Engineering	2.83	2.82
	BTEXC403	Microprocessor	2.84	2.86
	BTEXC404	Signals and Systems	2.82	2.82
	BTID405	Product Design Engineering	2.70	2.71
	BTBSC406	Numerical Methods and Computer Programming	2.76	2.86
	BTEXL407	Electrical Machines and Instruments Lab	2.78	2.62
	BTEXL408	Analog Communication Engineering Lab	2.94	2.45
	BTEXL409	Microprocessor Lab	2.70	2.74
	BTEXL410	Signals and Systems Lab	2.71	2.66
	BTHML411	Soft-Skill Development	1.07	
	BTEXF412	Field Training/ Internship/Industrial Training	2.20	2.34
TY- SEM V	BTEXC501	Electromagnetic Field Theory	2.25	2.00
	BTEXC502	Control System Engineering	1.33	2.00
	BTETC503	Computer Architecture	1.67	1.50
	BTEXC504	Digital Signal Processing	2.00	
	BTEXC505	Microcontroller and its Applications	1.75	

	BTEXPE506A	Probability Theory and Random Processes	2.96	2.96
	BTETL507	Control System Engineering Lab	2.00	2.00
	BTETL508	Digital Signal Processing Lab	2.73	2.71
	BTETL509	Microcontroller and its Applications Lab	2.74	2.72
	BTETP510	Mini Project	2.00	1.50
	BTETS511	Seminar	1.50	2.67
	BTEXF412	Field Training/ Internship/Industrial Training Evaluation	2.20	2.34
TY- SEM VI	BTETC601	Antennas and Wave Propagation	1.67	2.00
	BTETC602	Computer Network & Cloud Computing	2.00	1.50
	BTETC603	Digital Image Processing	3.00	3.00
	BTETPE604F	Android Programming	2.00	1.50
	BTETOE605E	Python Programming	2.87	2.83
	BTHM606	Employability & Skill Development	2.00	2.00
	BTETL607	Computer Network & Cloud Computing Lab	1.25	1.00
	BTETPEL608	Android ProgrammingLab	3.00	1.00
	BTETL609	Python ProgrammingLab	2.73	2.71
	BTETP610	Mini-project	2.00	1.50
	BTETF611	Field Training/ Internship/ Industrial Training	2.20	2.34
BTech- SEM VII	BTETC701	Digital Communication	2.00	1.50
	BTETC702	Wireless Sensor Network	3.00	2.00

	BTETC703	Embedded System Design	1.79	2.00
	BTETC704	Mechatronics	3.00	2.00
	BTHM705	Financial Management	2.50	1.25
	BTETL706	Wireless Sensor Network Lab	2.55	2.65
	BTETL707	Embedded System Design Lab	2.71	
	BTETL708	Mechatronics Lab	2.56	2.66
	BTETP709	Project Part I	2.75	1.50
	BTETF611	Field Training/ Internship/Industrial Training Evaluation	2.20	2.34
BTech- SEM VIII	BTETPE801A	Introduction to Internet of Things	2.00	1.00
	BTETPE802A	Industrial Automation and Control	1.00	2.75

Course	PSO1	PSO2
CO Attainment	2.44	2.34
Direct Attainment	2.46	2.38
Indirect Attainment	2.37	2.19

CRITERION 04	Students' Performance	150
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STUDENTS' PERFORMANCE

(150)

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY (2022- 23)	CAY m1 (2021 -22)	CAY m2 (2020- 21)	CAY m3 (2019- 20)	CAY m4 (2018- 19)	CAY m5 (2017- 18)	CAY m6 (2016- 17)
Sanctioned intake of the program (N)	30	60	60	60	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 (N1)	34	43	29	3	5	7	7
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	24	37	57	51	50	29
Separate division students, if applicable(N3)	0	0	0	0	0	0	0
Total number of students admitted in the Program(N1+N2+N3)	34	67	66	60	56	57	33

TableB.4a

CAY – Current Academic Year

CAYm1- Current Academic Year minus1= Current Assessment Year

CAYm2 - Current Academic Year minus2=Current

Assessment Year minus 1 LYG – Last Year Graduate

minus 1

LYGm1 – Last Year

Graduate minus 1

LYGm2 – Last Year

Graduate minus

Year of entry	N1+N2+N3 (As defined above)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog +without Backlog]			
		I Year	II Year	III Year	IV Year
CAY (2022-23)	34				
CAYm1(2021-22)	67	40			
CAYm2(2020-21)	66	29	66		
CAYm3(2019-2020)	60	3	60	55	
CAYm4(2018-2019)	56	5	55	53	54
CAYm5 (LYG)(2017-18)	57	7	57	57	57
CAYm6 (LYGm1) (2016-17)	33	5	19	14	15

TableB.4b

TableB.4c

Year of entry	N1+N2+N3 (As defined above)	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)			
		I Year	II Year	III Year	IV Year
CAY (2022-23)	34				
CAYm1 (2021-22)	67	40			
CAYm2(2020-21)	66	29	66		
CAYm3(2019-2020)	60	03	60	55	
CAYm4(2018-2019)	56	01	52	53	51
CAYm5 (LYG)(2017-18)	57	04	47	47	57
CAYm6 (LYGm1)(2016-17)	33	04	06	12	15

4.1 Enrolment Ratio (20) Enrolment Ratio= $N1/N$ 77.78

	N from table B.4a	N1 from table B. 4a	Enrollment ratio
CAY(2022-23)	30	34	113.33
CAYm1(2021-22)	60	43	71.67
CAYm2(2020-21)	60	29	48.33
Average Enrollment= $(ER1+ER2+ER3)/3=(113.33+71.67+48.33)/3=77.78$			

TableB.4.1

Item (Students enrolled at the First Year Level on average basis during the previous three academic years starting from current academic year)	Marks
$\geq 90\%$ students enrolled	20

$\geq 80\%$ students enrolled	18
$\geq 70\%$ students enrolled	16
$\geq 60\%$ students enrolled	14
$\geq 50\%$ students enrolled	12
Otherwise	0

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

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

$SI = \frac{\text{Number of students who have graduated from the program without backlog}}{\text{Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, if applicable}}$

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

Success rate without backlogs in any year of study = $25 \times \text{Average SI} = 25 \times 0.99 = 24.75$

Item	Last Year of Graduate, LYG(CAYm4) (2021-22)	Last Year of Graduate, LYG(CAYm5) (2020-21)	Last Year of Graduate, LYGm1(CAYm6) (2019-20)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	63	66	60

Number of students who have graduated without backlogs in the stipulated period	62	66	60
Success Index (SI)	0.98	1	1
Average SI	0.99		

4.2.2 Success rate in stipulated period of study (15)

$SI = (\text{Number of students who graduated from the program in the stipulated period of}$

TableB.4.2.2

course duration) / (Number of students admitted in the first year of 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 × Average SI

Success rate = 15 × Average SI = 15 × 0.86 = 12.9

Item	Last Year of Graduate, LYG (CAYm4) (2018-2019)	Last Year of Graduate, LYG (CAYm5) (2017-18)	Last Year of Graduate minus 1, LYGm1 (CAYm6) (2016-17)
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	55	57	33
Number of students who have graduated in the stipulated	55	57	19

period			
Success Index (SI)	1	1	0.58
Average Success Index	0.86		

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)

$$\text{Academic Performance} = 1.5 * \text{Average API (Academic Performance Index)} = 1.5 * 8.35 = 12.53$$

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

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

Academic Performance	CAYm1 (2021-22)	CAYm2 (2020-21)	CAYm3 (2019-20)
Mean of CGP A or Mean Percentage of all successful students(X)	8.39	8.76	8.07
Total no. of successful students(Y)	55	53	57
Total no. of students appeared in the examination(Z)	55	54	57
API=x*(Y/Z)	8.39	8.6	8.07
Average API=(AP1+AP2+AP3)/3	8.35		

TableB.4.3

4.4 Academic Performance in Second Year (15)

Academic Performance Level = 1.5 * Average API (Academic Performance Index) = 1.5 * 8.3 = 12.45

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

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

TableB.4.4

Academic Performance	CAYm1 (2021-22)	CAYm2 (2020-21)	CAYm3 (2019-20)
Mean of CGPA or Mean Percentage of all successful students(X)	8.22	9.01	8.10
Total no. of successful students(Y)	66	60	52
Total no. of students appeared in the examination(Z)	66	60	55
API=X*(Y/Z)	8.22	9.01	7.66
Average API=(AP1+AP2+AP3)/3	8.3		

4.5 Placement, Higher Studies and Entrepreneurship

(40)

Assessment Points = 40 × average placement

34.67

Item	CAYm1 (2021-22)	CAYm ₂ (2020-21)	CAYm3 (2019-20)
Total No. of Final Year Students(N)	54	57	20
No of students placed in companies or Government Sector(x)	49	54	15
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	0	0	0
No. of students turned entrepreneur in engineering/technology (z)	0	0	0
X + y + z =	49	54	15
Placement Index:(x+y+z)/N	0.91	0.94	0.75
Average placement=(P1+P2+P3)/3	0.87		

TableB.4.5

4.5a Provide the placement data in the below mentioned format with the name of the program and the assessment year:

Program Year 2021-22

Placement Details

Sr.no.	Name of student	Name of the company	Designation	Salary (Per Annum)	Ref Number
1	KADAM SANCHIT A HANMANT	APTRON TECHNOLOGY, SATARA	TRAINEE ENGINEER	1.5 L	APT-SO/2021-22/11-05
2	CHAVAN MAHESH TANAJI	SURYAURJAA TECHNOLOGY, SATARA	SALES-TRAINEE	1.25L	SURYA-OL/2223/08-04
3	PATEL SIMRAN ALLAUDDIN	HCL TECHNOLOGIES LTD., NOIDA	GRADUATE ENGINEER TRAINEE	4.25L	HCL-GE/REC/201-22/05
4	POTEKAR SNEHAL SANJAY	TATA MOTORS, PUNE	APPERNTICE TRAINEE	1.44L	HR-TRG/TA/REC/2021-22/
5	SHAIKH FARIYAD RASHID)	LEAN QUALITY SOLUTIONS PVT LTD PUNE	Junior SQL Developer	2.5L	LQS-SQ-2022-23/REC/06
6	JADHAV TRUPTI SANDIP	CAPGEMINI TECHNOLOGY, MUMBAI	ANALYST/A 4	4.0 L	6227576/449401
7	KADAM OMKAR NAVNATH	WIPRO PUNE	PROJECT ENGINEER	3.5L	WIPRO-PE/2122/05

8	SAWANT PRATIKSH A SHANKAR	TATA MOTORS, PUNE	TECHNICIA N APPRNTICE	1.44 L	HR- TRG/TA/REC/2021-22/
9	JADHAV KOMAL SANJAY	WELLNESS FOREVER MEDICARE LTD.,MUMBAI	INTERNSHI P TRAINEE	1.44 L	WFM- TA/REC/2122/06
10	MAHADIK OMKAR SANJAY	APTRON TECHNOLOGY, SATARA	TRAINEE Engineer	1.26L	APT-SO/2022/11-07
11	GHORPAD E PRANALII RAMCHA NDRA	RELIEANCE SMSL PUNE	SALES ASSOCIATE	1.75	HR/FEB/23/K2/605993 31/1001411098
12	KUMBHA R DHANASH REE SHARAD	TATA AUTOCOMM SYSTEM LTD PUNE	AUTOMOTI VE ASSEMBLY OPERATOR	2.26 L	073-14613690
13	CHAVAN VARSHA KASHINA TH	HUDI INDIS PVT LTD PUNE	SPORTS ANALYST	2.88 L	HUDI/2021-22/6633
14	KHAN MISBA KHALIL	INFOSYS PUNE	ANALYST	2.25 L	HRD/3T/1003303427/2 2-23
15	KADAM VAISHNA VI RAJENDR A	SURYAURJAA TECHNOLOGY , SATARA	Sales- Trainee	1.25L	SURYA-OL/2223/08- 04
16	KADAM SHIVANI VIJAY	TATA MOTOR PUNE	TECHNICIA N APPRNTICE	1.44 L	HR- TRG/TA/REC/2021-22/
17	KADAM SHRIHARI VIJAY	DEQUODE PUNE	SOLUTION ENGINEER	3.40 L	DE-SE/REC/2021-22
18	BHOSALE POOJA GORAKH	HR OUTPROFF TECH PUNE	INTERNSHI P TRAINEE	2.5 L	HR/IT-2021-22
19	CHAVAN SANDHYA RANI SHASHIK ANT (print)	TATA MOTOR PUNE	TECHNICIA N APPRNTICE	1.44 L	HR- TRG/TA/REC/2021-22/

20	KHAMKAR POOJA SHANKAR	APTRON TECH, SATARA	Trainee Engineer	1.5 L	APT-SO/2021-22/11-06
21	SAYYAD MUSKAN TAIYAB	QUANTIFY MUMBAI	TEST AUTOMATION ENGINEER	2.44 L	QP/REC/2021-22
22	PAWAR ARATI TATYA	CODE SOFT TECH	WEB DEVELOPER	1.44 L	C507WX3963
23	LAVAND MRUNALI SHIVAJI	SURYAURJAA TECHNOLOGY, SATARA	Sales-Trainee	1.25L	SURYA-OL/2223/08-06
24	MORE SHREYASH DILIP	ROCKWELL AUTOMATION	SOFTWARE ENGINEER TRAINEE	6.34 L	ROCK/RE/2021-22
25	SAPTE VIPUL SHASHIKANT	SURYAURJAA TECHNOLOGY, SATARA	SALES-TRAINEE	1.25L	SURYA-OL/2223/08-07
26	SAWANT POOJA KRISHNANT	RSL SOLUTIONS PVT LTD, PUNE	SOFTWARE DEVELOPER	2.44 L	RSL/REC/021-22
27	JADHAV GHANSHYAM VIKAS	SAI TECHNOLOGY, SATARA	TRAINEE Engineer	1.44 L	SAI/ REC/ 2021-22
28	VIBHUTE PRADNYA GAJANAN	YASHAWI ACADEMY FOR SKILLS	ASSEMBLY LINE SUPERVISOR	1.59 L	YASHAWI/REC/2021-22
29	ANJALI SAHEBRAO SANAS	INYATRA TECH PVT LTD	PCB TESTING	1.22 L	INYANTRA/REC/2021-22
30	GOUDAN AVARU SHIVANAND AMASIDDH	OMKAR ELECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/2021-22
31	SAVAKHANDE TEJAS	OMKAR ELECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/2021-22

32	RAJESHIR KE ABHISHE K PRADIP	OMKAR ELECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/2021-22
33	BABAR HEMA SURESH	SAI TECHNOLOGY , SATARA	TRAINEE Engineer	1.44 L	SAI/ REC/ 2021-22
34	PHARAND E ROHAN HANMAN T	OMKAR ELECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/2021-22
35	NIMBALK AR ANIKET MAHESH	SAI TECHNOLOGY , SATARA	TRAINEE Engineer	1.44 L	SAI/ REC/ 2021-22
36	BHANDAR E AISHWAR YA SANJAY	ABHAY SINGH BHOSALE NSTITUTE TECHNOLOGY , SATARA	ASSI. PROF	1.8 L	2023-24/205
37	CHAVAN KAJAL BALU	INYANTRA TECH PVT LTD SHINDEWADI	TRAINEE Engineer	1.8 L	INYANTRA/REC/2021 -22
38	BHILARE PRIYANK A RAVINDR A	INYANTRA TECH PVT LTD SHINDEWADI	TRAINEE Engineer	1.8 L	INYANTRA/REC/2021 -22
39	PAWAR ANKITA VILAS	OMKAR ELECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/2021-22
40	JADHAV VAISHNA VI SUHAS	APTE MANUFACTUR ING LTD SATARA	SALES COORDINA TOR	2.40 L	AMSPL/HR/F20
41	VIDHATE PRANALI SURESH	PROMPT PERSONNEL	Agency Contractor Provisioning & Configuration Management	2.37 L	PR/REC/2021-22
42	MADIWAL NILRAJ BASURAJ	CEM ELECTROTEC H PVT LTD	PROCESS QUALITY ENGINEER	3.20 L	CEM0REC02021-22
43	SAKUNDE SACHEEN RAMCHA NDRA	FLASH ELECTRONICS	SENIOR PCB DESIGNER- R&D	1.80 L	FEIPL/HR/APPT/1906

44	HAWALE SUVARNA SOMNATH	SAI TECHNOLOGY , SATARA	TRAINEE Engineer	1.30 L	SAI/ REC/ 2021-22
45	SAWANT GOURI ASHOK	BSA NEEM	TRAINEE Engineer	1.50 L	BSA/PUN/NT/7874
46	NIKAM SAYALI DHANAJI	HCL TECHNOLOGI ES	SOFTWARE ENGINEER TRAINEE	2.52 L	HCL/REC/2021-22
47	DHAYGU DE HARSHAD A ABHAY	APTRON TECH, SATARA	TRAINEE ENGINEER	1.80 L	APT-SO/2021-22/11-07
48	KADAM MADHAVI PRAKASH	CLEAN MOBILITY TECH	TRAINEE Engineer	2.87 L	PVCMT/HR/APP/2023 /007
49	SHAIKH ASIF RAFIK	INFINITY PUNE	QUALITY CONTROL ENGINEER	2.16 L	INFINITY/22-23/CF/03

Program Year 2020-21

Placement Record

S.no.	Name of student	Name of the company	Designation	Salary(Per Annum)	Ref Number
1	ATUL MADHUKAR SALUNKHE	PRICOL TECHNOLOGIES PUNE	ASSEMBLY LINE OPERATOT	1.88 L	PRE/REC/2020-21
2	JAMDAD SHRAVANI RAMESH	INYATRA TECH PVT LTD	PRODUCTION ENGINEER	1.80 L	INYANTRA/REC/ 2021-22
3	RAJASHRI DAJIRAM DESHMUKH	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/ 2020-21
4	MANKAR KOMAL RAMCHAND RA	SAI TECHNOLOGY	GRADUATE TRAINEE	2.5L	SAI/REC/2022
5	ROHIT PANDURAN G DESHMUKH	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/ 2020-21

6	MAHADIK SAYALI YASHAWAN T	SUN AND TECH AND SERVICES PVT LTD.	ASSOCIATE ENGI TRAINEE	1.20 L	SUN/REC/2020- 21
7	PRAJAKTA PRATAP SURYAVAN SHI	INFOSYS, MYSORE	SYSTEM ENGINEER	3.00 L	INFOSYS/REC/20 20-21
8	AVINASH SHAHAJI WAGHMARE	PROCOL PUNE	JUNIOR ENGI	3.1 L	PRL-HRD-151- PROB-RECT- 2021
9	BANDAL TUSHAR JAYWANT	Suresh Indu Lasers Pvt. Ltd, Pune	PRODUCTION AND SERVICE TRAINEE	2.5 L	SIL- HR/REC/2020-21
10	BHINGARE RAKSHATA MAHADEV	DANA India Technical Center, PVT LTD, Ratnagiri	POST GRADUATE TRAINEE ENGI	2.5 L	DANA/ENGI/22- 23
11	BHOITE AKASH PRATAPRAO	PROMPT PERSONNEL, MUMBAI	ASSOCIATE ENGINEER	2.1 L	PROMPT- HRD/REC/2020- 21
12	BHOSALE JYOTI RAJKUMAR	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/ 2020-21
13	CHAVAN	Tool Tech Global	GET-SOFTWARE	3.00 L	TOOLTECH-
	NAMRTA RAMDAS	Engineering	ENGI		HR/REC/2020-21
14	CHAVAN POONAM MADHUKAR	INSTMOJO PUNE	OPERATOR ENGINEER	4.8 L	INTA/REC/2020- 21
15	CHAVAN PRIYANKA RAJENDRA	STELLANTIS FACAIT AUTOMOTIVE INDIA PVT LTD	GRADUATE ENGINEER TRAINEE	5.5 L	FCAIT- HR/REC/2020-21
16	CHAVAN TANUJA VISHWAS	WIPRO, PUNE	PROJECT ENGINEER	3.5 L	WIPRO- HR/REC/2020-21
17	CHOUGULE AKASH BHIMRAO	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/ 2020-21

18	DONGHARE MRUNALI KISHORE	INFOSIS, MYSORE	SYSTEM ENGINEER TRAINEE	3.5 L	HRD/1003892506/ 21-22
19	GAVALI MANISHA KRUSHNKA NT	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/ 2020-21
20	GOVARKAR RUTVIK AJIT	ELECTRAA SOLAR SYSTEM	PRODUCTION AND SERVICE ENGI	1.8 L	ELECTRA;HRD/ REC/2020-21
21	JADHAV AKSHAY ARUN	PRICOL TECHNOLOGIES PUNE	ASSEMBLY LINE OPERATOT	1.88 L	PRE/REC/2020-21
22	JADHAV ALPESH ANADRAO	SAGITEC SOLUTIONS PVT LTDPUNE	TRAINEE ENGINEER	1.2 L	HR/SAGITEC/SP/ TL/015/08/22
23	JADHAV ANURADHA NARENDRA	DHRUVA Automation and control pvt ltd	TRAINEE ENGINEER	2.2 L	DRHUV/REC/202 0-21
24	JADHAV ASHWINI SUDHAKAR	PRICOL TECHNOLOGIES PUNE	ASSEMBLY LINE OPERATOT	2.2 L	PRE/REC/2020-21
25	JAGADALE KAJAL SOMNATH	TCS , CHENNAI	ASSISTANT SYSTEM ENGINEER- TRAINEE	3.4 L	TCSL/DT2021930 0033/CHENNAI
26	JAYANT SANJAY PAWAR	QLOGICIEL	SOFTWARE TESTER	1.8 L	QLOGIC- HRD/REC/2020- 21
27	KALE KSHITIJ SURYKANT	LUEWINT TECH PVT LTD	JUNIOR ENOVIA DEVELOPER	1.5 L	LUWINT/REC/20 20-21
28	KHARAT SHITAL SHASHIKAN T	OMKAR ELECTRONICS	PCB DEVELOPER	1.8 L	OMKAR/REC/020 -21
29	KULKARNI VISHWJEET AMOL	APTRON TECH SATARA	TRAINEE ENGINEER	3.0 L	APT-SO/2021- 22/11-05
30	MALI BHAGYASH RI RAGHUNAT H	TATA technologies, Pune	SOFTWARE DEVELOPER	4.7 L	TCS- HR/REC/2020-21

31	MORE PRATHAMES H ANANDRAO	VODAFONE PUNE	MANAGER-MOBILITY	7.2 L	VODA/REC/2020-21
32	MULANI MOHASIN	CEM Electromech PVT LTD, SANGALI	PROJECT ENGINEER	1.9 L	CEM/REC/2020-21
33	NIKAM PRIYANKA CHANDRAKANT	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER	1.8 L	VIDHYATI/REC/2020-21
34	PARAG DILIP BABAR	SVAKARMA FINANCE PVT LTD	FINANCE OFFICER	3.8 L	SVAKARMA/REC/2020-21
35	PAWAR KULDEEP SHIVAJI	CDAC, THIRUVANANTPURAM	PROJECT ENGINEER	2.2 L	HR/714/2022
36	PAWAR POOJA	CAIT EDUSIS PVT LTD	PROCESS ENGINEER	2.8 L	CAIT/REC/2021
37	PAWAR PRASAD SANJAY	SAI ELECTRONICS SATARA	TRAINEE ENGINEER	2.25 L	SAI/REC/2022
38	PHARANDE TEJASWEEN I	INTANGLES LAB PVT LTD	HERDWARE ENGINEER	2.8 L	INTANGLES/REC/2020
39	PUJA SURESH DESHMUKH	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER	1.8 L	VIDHYATI/REC/2020-21
40	RAJPURE ABHIJEET	SAGITECH PUNE	TRAINEE ENGINEER	1.2 L	SAGITECH/REC/2020
41	RANKHAMB E MEGHA JALINDAR	STAD SOLUTIONS			
42	SALUNKHE ABHISHEK	GOLDSQUIRREL	SOFTWARE TESTER	2.8 L	GOLDSQL/REC/2020

43	SALUNKHE MAYURI	SURYAURJAA TECH	SALES TRAINEE	1.25	SURYA/REC/202 0
44	SALUNKHE RUSHIKESH	SAI TECHNOLOGY	GRADUATE ENGINEER TRAINEE	2.25 L	SAI/REC/2022
45	SAWANT SHITAL	FAURECIA, PUNE	GRADUATE ENGINEER TRAINEE	5.5 L	FAURECA/REC/2 020
46	SHINDE AKSHAY SANJAY	YASH TECHNOLOGY	GRADUATE ENGINEER TRAINEE	3.5 L	YASH/REC/2020
47	SHINDE GANESH SANJAY	ACME INFOVISION	SOFTWARE DEVELOPER	1.95 L	ACME/REC/2020
48	SHINDE MAYURI KRUSHNKA NT	VIVEKANAND ACADEMY, SATAR A	STEM LAB TECH ASSITANT	1.8 L	VAHE/APP ORD/DOC/2021- 22/43
49	SHINDE PRAJAKTA	SAI TECHNOLOGY	GRADUATE TRAINEE	2.5L	SAI/REC/2022
50	SHIRKE AMIT KRISHNA	SAI TECHNOLOGY	GRADUATE TRAINEE	1.9 L	SAI/REC/2022
51	AKSHATA URANE	INFOSIS, MYSORE	SYSTEM ENGINEER TRAINEE	3.6 L	INFO/REC/2020- 21
52	VINCHU SONAM	SURYAURJAA TECH	SALES TRAINEE	1.25	SURYA/REC/202 0
53	WAYADAND E VIDYA	CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT	NEEM TRAINEE ENGINEER	2.5 L	NEEM/REC/2020- 21
54	PRIYANKA YADAV	SAI TECHNOLOGY	GRADUATE TRAINEE	2.5L	SAI/REC/2022

Programs Name and Assessment
Year (2019-20)

S.no.	Name of student	Name of the company	Designation	Salary(Per Annum)	Ref Number
1	Kadam KiranVikas	LOBO STAFFING SOLUTIONS pvt Ltd	NOC ENGINEER	2.7 L	TCT00749
2	Shinde Prajakta Rajaram	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER	1.8 L	VIDHYATI/REC/2020-21
3	Yadav Nikita Sanjay	Atos Global,Pune	TRAINEE ENGINEER	2.70 L	AG/REC/2020
4	Bankar Nilam P	TCS, PUNE	SOFTWARE DEVELOPER	3.5 L	TCS/HR/REC/2019-20
5	Nikam AishvaryaS.	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/2020-21
6	Bhosale Snehal S	PheonixMicrosystemsPune	ASSOCIATE ENGI TRAINEE	3.00 L	PHONIX/REC/2019-20
7	Deshpande Aishwarya Rajendra	Sai industries satara	SYSTEM ENGINEER	1.50 L	SAI/HRD/REC/2019-20
8	Bhosale Pooja Ashok	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/2020-21
9	Bane Shubhangi	MANSHU COMTEL PVT LTD, SATARA	PRODUCTION AND SERVICE TRAINEE	2.5 L	MANSHU-HR/REC/2020-21

10	Bhosale Dhanashree Manoj	MANSHU COMTEL PVT LTD, SATARA	PRODUCTION AND SERVICE TRAINEE	2.5 L	MANSHU-HR/REC/2020-21
11	Mengane Nandini P	KINETIC COMMUNICATIONS LTD, PUNE	PRODUCTION TRAINEE	2.1 L	KC/REC/2019-20/005
12	Jadhav Vishakha S.	OMKAR ELCETRONICS, SATARA	TRAINEE ENGINEER GRADE-T	1.5 L	OMKAR/REC/2020
13	Sande Nishad S.	OMKAR ELCETRONICS, SATARA	TRAINEE ENGINEER GRADE-T	1.5 L	OMKAR/REC/2020
14	Chabukswar Sanovar M.	Sai industries satara	TECHNOCAL SUPPORT ENGINEER	2.44 L	SAI/HRD/REC/2019-20
15	Mohite chaitanya D.	PROMPT PERSONNEL	NOC ENGINEER	2.5 L	PROMPT/REC/2020

4.6 Professional Activities (14/20)

4.6.1 Professional societies/chapters and organizing engineering events (3/5)

YEAR 2022-23

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

Sr. No.	Name of Activity	Date	Resource Person	Type of activity (Guest Lecture/Quiz/Project Competition)
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1	Industrial Visit	10-08-2023	Intelux Electronics Pvt. Ltd., Pune	Industrial Tour
2	PCB Design and Manufacturing (Lecture/Handson/Demonstration/Other)	07/08/2023 To 18/08/2023	Apron Tech Pvt. Ltd. Satara	Workshop
3	C, C++ and Python (Lecture/Handson/Demonstration/Other)	07/08/2023 To 18/08/2023	Squirrel's Infotech, Satara	Workshop
4	Automation in IOT (Lecture/Handson/Demonstration/Other)	01/08/2023 To 31/08/2023	Squarewave Automation Pvt. Ltd. Satara	Workshop
5	Guest Lecture on IoT Physical devices Arduiono & Rasberry Pi	22-05-2023	Dr. Ratnmala Bhimanpallewar	Guest lecture
6	Five Days workshop Python Programming	22-05-2023 To 26-05-2023	Mr. Abhijit Ubale & Mr. Nikhil Kambale	Workshop
7	Guest Lecture on Data & Analytics for IoT	19-05-2023	Mrs. Suruchi Degaonkar	Guest lecture
8	Recent Trends and opportunities in IT	19-05-2023	Mr. Shivraj Gaikwad (Rapportsoft Consulting Pune)	Guest lecture
9	International Conference	13-05-2023 to 14-05-2023	Dr. Zehila Selamoglu	International Conference
10	Guest lecture on software Testing	05-05-2023	Mr. Suraj Sawant & Mr. Omkar Mali	Guest lecture
11	Opportunities in IT Industry & Japan	3-05-2023	Mr. Bipin Kadam	Guest lecture

12	IT Career in digital marketing(AJDM)	10-03-2023	Mr. Ajinkya Pawar (AJDM, India)	Guest lecture
13	Alumni Guest Lecture	23-02-2023	Ms. Aarti Vilas Katkar	Guest lecture
14	Alumni Guest Lecture	23-02-2023	Ms. Aarti Vilas Katkar	Guest lecture
15	Alumni Guest Lecture	22-02-2023	Ms. Swarupa Ghorpade	Guest lecture
16	Corporate Grooming	21-02-2023 to 23-02-2023	Mr. George	Workshop
17	Skill Based Training Program	6-01-2023	Symboisis Skills and Professional University (SSPU)	Guest lecture
18	Alumni Guest Lecture	22-12-2022	Mr. Swaroop Dongare	Guest lecture
19	Industrial Tour	17-12-2022	IIT Bombay	Industrial Tour
20	Guest lecture on Management Studies	14-12-2022	Dr. Pranjali Ankule	Guest lecture
21	University Level Project Competition- Aavishkar	18-11-2022	Mr. S.V Khobragade	University Level Project Competition
22	Industrial Visit	12-10-2022	ACME INFOVISION SYSTEMS Pvt. Ltd	Industrial Tour

YEAR 2021-22

Sr No	Name of Activity	Date	Type of activity(Guest Lecture/Quiz/ Project Competition/ workshop
1	Alumni Guest Lecture on IoT Solution	17th Jan 2022	Guest Lecture
2	Expert lecture on Mechatronics	27th Jan 2022	Guest Lecture
3	Expert lecture on Wireless Sensor Networks	28th Jan 2022	Guest Lecture
4	Expert lecture on Digital Communication	29th Jan 2022	Guest Lecture
5	Expert lecture on Embedded System Design	31th Jan 2022	Guest Lecture
6	Expert lecture on Financial Management	2nd Feb 2022	Guest Lecture
7	Expert lecture on Digital Signal Processing	27th Jan 2022	Guest Lecture
8	Expert lecture on Computer Architecture	28th Jan 2022	Guest Lecture
9	Expert lecture on Data Structure & Algorithm Using Java Program	29th Jan 2022	Guest Lecture

10	Expert lecture on Electromagnetic Field Theory	31th Jan 2022	Guest Lecture
11	Expert lecture on Control System Engineering	1st Feb 2022	Guest Lecture
12	Expert lecture on Microcontroller & its applications	2nd Feb 2022	Guest Lecture
13	Expert lecture on Engineering Mathematics	27th Jan 2022	Guest Lecture
14	Expert lecture on Electronic Devices & Circuits	28th Jan 2022	Guest Lecture
15	Expert lecture on Digital Electronics	29th January 2022	Guest Lecture
16	Expert lecture on Electrical Machines & Instruments	31st Jan 2022	Guest Lecture
17	Alumni Guest Lecture on Data Analytics	8th March 2022	Guest Lecture
18	Alumni Guest Lecture on Application Development	18th March 2022	Guest Lecture
19	Alumni Guest Lecture Overseas Education & Employment Opportunities	24th March 2022	Guest Lecture
20	Internal Hackthon of Smart India Hackthon 2022	28-29 April2022	Project Competition
21	Alumni Guest Lecture on Embedded Development	29th April 2022	Guest Lecture
22	Alumni Guest Lecture on Carrer as Embedded Engineer	4th May 2022	Guest Lecture

YEAR 2020-21

Sr No	Name of Activity	Date	Type of activity (Guest Lecture/Quiz/Project Competition)
1	Online Guest lecture on IOT	20 March 2021	Online Guest Lecture
2	Online Guest lecture on Embedded Systems	21/01/2021	Online Guest Lecture
3	Online Guest lecture on OOP concepts and interview techniques	03-04-2021	Online Guest Lecture
4	Online Guest lecture on Project Domains	27/03/2021	Online Guest Lecture
5	Online Alumni guest lecture on Automation Testing	28/11/2020	Online Alumni Guest Lecture
6	Online Alumni guest lecture on Java Framework	26/12/2020	Online Alumni Guest Lecture
7	Online Alumni guest lecture on Web Development	23/1/2021	Online Alumni Guest Lecture
8	Online Alumni guest lecture on E-commerce SAP Hybris	20/2/2021	Online Alumni Guest Lecture
9	Online Alumni guest lecture on IT industry Overview, Automation Testing	27/3/2021	Online Alumni Guest Lecture
10	Online Alumni guest lecture on Software Development Cycle	24/4/2021	Online Alumni Guest Lecture
11	Career in Software Testing, Prerequisites and Opportunities	9/5/2021	Online Alumni Guest Lecture
12	Opportunities in Software & Core	26/10/2021	Alumni Guest Lecture

YEAR 2019-20			
Sr No	Name of Activity	Date	Type of activity (Guest Lecture/Quiz/Project Competition)
1	Yugam – 2020 Four Week Training Program on PCB Designing	29/6/2020 To 24/7/2020	1) Mr. Santosh Chavan (Co-Founder, A S M Tracks, Shirwal) 2) Prof. Venkatasai shreenath (Assistant Professor, BVSR, Ongol, AP) 3) Prof. Sameer Bagwan (Assistant Professor, ADCET, Ashta) 4) Dr. Dhanashree Gawali (Associate Professor, Singhgad, Pune) 5) Prof. Vishal Ambhore (Assistant Professor.) 6) Mr. Shridhar Dudam (Chief Technology Officer, Smart Logic Technologies, Pune) 7) Prof. Niraj Kapse (Director, Electrowing Servies, Ichalkaranji) 8) Mr.Prafull Bagade (Design Engineer, AutoTech, Nashik) 9) Mr.Tejas Shilamkar(Design Engineer , Vertiv Engergy Pvt Ltd) 10) Ms. Vinaya Kadam (Career Counsellor, Free Lancer)
2	Yugam – Four Week Training Program on Web Design	29/7/2020 To 4/8/2020	1)Mr. Nikhil Korade (SplendorNet Technologies, Pune) 2) Ms. Ashwini Padwal (JA Solutions) 3) Mr. Shailesh Wagle (KPIT Hinjewadi) 4) Mr. Danish Shaikh (PHP & Java Programmer) 5) Prof. Mr. SuhasChavan (Asst Professor, Singhgad College Pune.) 6) Mr. Roakhande S.A. (Hefshine Pvt Ltd.) 7) Mr. Vikas Pomane (CEO, Utriva Pvt Ltd.)

3	Yugam – Four Week Training Program on Internet of Things	29/7/2020 To 4/8/2020	1)Mrs.KirtiWanjale (VIIT, Pune) 2)Mrs.Varsha Patil (Lembhe) (JSPM, Hadapsar) 3)Mr.Pravin P. Mote (TATA Communicatios, Pune) 4)Mr. AshishKalambe (Modelcam Technologies Pvt. Ltd, Pune) 5)Mr. Nilesh Bhandare (Sloki Technologies Plt Ltd, Bangalore) 6)Mr. Akshay Jadhav (Space Automation, Pune) 7)Mr. Niraj Kapase (DKTE, Ichalkaranji) 8)Mr. Vaibhav V. Nalawade (Institute of Computer Science, Satara) 9)Mr. Pravin Koregave (Infinite Uptime India Pvt Ltd., Pune)
4	Guest Lecture onIntroduction to CareerOpportunities in SystemNetworki ng	11/09/2019	Guest Lecture
5	Guest Lecture on CyberCrime	24/07/2019	Guest Lecture
6	Guest Lecture on MNC	10/02/2020	Guest Lecture
7	One Day R Programming Workshop	09-11-2019	Workshop
8	One Day Workshop on C and C++	29-02-2020	Workshop

4.6.2 Publication of technical magazines, newsletters, etc.

(3/5)

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

Sr No	Name of News letter	Year	Name of Editor	Publisher	Type
1	Electronika	2022-23	Mrs. Sucharita Kandarkar	Arvind Gavali College of Engineering Satara	HALF YEARLY
2	Electronika	2021-22	Mrs.Mahamuni Pratima Nandkumar	Arvind Gavali College of Engineering Satara	HALF YEARLY
3	Electronika	2020-21	Mrs.Mahamuni Pratima Nandkumar	Arvind Gavali College of Engineering Satara	HALF YEARLY
4	Electronika	2019-2020	Mrs.Mahamuni Pratima Nandkumar	Arvind Gavali College of Engineering Satara	HALF YEARLY
5	Electronika	2018-2019	Mrs.Mahamuni Pratima Nandkumar	Arvind Gavali College of Engineering Satara	HALF YEARLY

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

(8/10)

Co-curricular activities

YEAR 2022-23

Sr. no	Roll Number	Course Name	Name	Final Score	Certificate Type
1	NPTEL21 HS76S443 10057	Soft Skills	Vaishnavi Rajendra Mahangade	58	Successfully completed
2	NPTEL23C51S 64600208	Introduction to Internet of Things	Kenjale Gauri Anandrao	65	Successfully completed

Sr.no	Name of students	Rank	Name of event	Level	Event organized institute	DATE OF EVENT
1	Channe pratiksha satish	Participant	Avishkar 2022	Institute	Arvind gavali college of engineering, satara	18-11-2022
2	Mandhare akshata sachin	Participant	Avishkar 2022	Institute	Arvind gavali college of engineering, satara	18-11-2022

3	Shinde monika ankush	Participant	Avishkar 2022	Institute	Arvind gavali college of engineering, satara	18-11-2022
4	Kadam omkar nilesh	Participant	Avishkar 2022	Institute	Arvind gavali college of engineering, satara	18-11-2022
5	Kadam rutuja umesh	Participant	Avishkar 2022	Institute	Arvind gavali college of engineering, satara	18-11-2022
6	Kadam rushikesh sanjay	Participant	Avishkar 2022	Institute	Arvind gavali college of engineering, satara	18-11-2022
7	Pawar sanket kushaba	Participant	Avishkar 2022	Institute	Arvind gavali college of engineering, satara	18-11-2022
8	Phalke vaishnavi shankar	Participant	Avishkar 2022	Institute	Arvind gavali college of engineering, satara	18-11-2022
9	Sawant pooja shankar	Participant	Avishkar 2022	Institute	Arvind gavali college of engineering, satara	18-11-2022
10	Pawar akanksha satish	Participant	Avishkar 2022	Institute	Arvind gavali college of engineering, satara	18-11-2022

11	Bandgar tejasvi shivaji	Participant	Avishkar 2022	Institute	Arvind gavali college of engineering, satara	18-11-2022
12	Waske abhijeet kisan	Participant	Avishkar 2022	Zonal	Shrad institute of techanology, yadrav	10-12-2022
13	Deshmukh priya satish	Participant	Avishkar 2022	Zonal	Shrad institute of techanology, yadrav	10-12-2022
14	Dangare pratik krushna	Participant	Avishkar 2022	Zonal	Shrad institute of techanology, yadrav	10-12-2022
15	Kenjale gauri anandrao	Participant	Cad war 3d	State level	Phaltan education societys college of engineering, phaltan	24-02-2023
16	Chavan rutika pursshottam	Runner	Cad war 3d	State level	Phaltan education societys college of engineering, phaltan	24-02-2023
17	Bhoite aryan rajenda	Participant	Assembly making	State level	Phaltan education societys college of engineering, phaltan	24-02-2023
18	Kate shweta milan	Participant	Assembly making	State level	Phaltan education societys college of engineering, phaltan	24-02-2023
19	Jadhav shrikant sanjay	Participant	Assembly making	State level	Phaltan education societys college of engineering, phaltan	24-02-2023
20	Hingalkar vishal shivaji	Participant	Project competition	State level	Phaltan education societys college of	24-02-2023

					engineering, phaltan	
21	Nimbalkar snehal anandrao	Participant	Project competition	State level	Phaltan education societys college of engineering, phaltan	24-02-2023
22	Shivathare namita rajaram	Participant	Project competition	State level	Phaltan education societys college of engineering, phaltan	24-02-2023
23	Yadav priya lahu	Participant	Project competition	State level	Phaltan education societys college of engineering, phaltan	24-02-2023
24	Sabale payal bhikaji	Winner	Techno vision 2023	National level	Jspm,nahre pune	01-03-2023
25	Pharande mukta sunil	Participant	Spectrum 2k23	Zonal	Dr. Daulatrao aher college of engineering,ka rad	21-03-2023
26	Inamdar tushar jayant	Participant	Spectrum 2k23	Zonal	Dr. Daulatrao aher college of engineering,ka rad	21-03-2023
27	Yadav akshaya pramod	Participant	Spectrum 2k23	National level	Dr. Daulatrao aher college of engineering,ka rad	21-03-2023
28	Ghadage nikesh suresh	Participant	Spectrum 2k24	National level	Dr. Daulatrao aher college of engineering,ka rad	22-03-2023
29	Pechfule shashank vijaykumar	Participant	Eureka and jidnyasa 2k23	National level	Tkit, warananager	13-04-2023
30	Deshmukh rupali santosh	Runner	Eureka and jidnyasa 2k23	National level	Tkit, warananager	13-04-2023

31	Jagtap anisha rajendra	Runner	Eureka and jidnyasa 2k24	National level	Tkit, warananager	13-04-2023
32	Mahamulkar nikhil ajit	Participant	Project competition	National level	Arvind gavali college of engineering, satara	16-04-2023
33	Mahamulkar pooja	Participant	Project competition	National level	Arvind gavali college of engineering, satara	16-04-2023
34	Kadam omkar dnyaneshwar	Participant	Project competition	National level	Arvind gavali college of engineering, satara	16-04-2023
35	Jadhav anil shivaji	Participant	Project competition	National level	Arvind gavali college of engineering, satara	16-04-2023
36	Dhayagave rushani nana	Participant	Project competition	National level	Arvind gavali college of engineering, satara	16-04-2023
37	Shinde shivam sunil	Participant	Project competition	National level	Arvind gavali college of engineering, satara	16-04-2023
38	Mahamulkar harshada kishor	Participant	Project competition	National level	Arvind gavali college of engineering, satara	16-04-2023
39	Dagade kshitija sunil	Participant	Project competition	National level	Arvind gavali college of engineering, satara	16-04-2023
40	Nikam sanket ravsaheb	Participant	Project competition	National level	Arvind gavali college of engineering, satara	16-04-2023
41	Kadam durga subhash	Participant	Project competition	National level	Arvind gavali college of engineering, satara	16-04-2023
42	Chavan amruta sambhaji	Participant	Project competition	National level	Arvind gavali college of engineering, satara	16-04-2023

43	Patil sandhya ashok	Participant	Project competition	National level	Arvind gavali college of engineering, satara	16-04-2023
44	Deshpande namrata nandkumar	Participant	Pioneer 2023	National level	Kit , kolhapur	23-04-2023
47	Channe pratiksha satish	Participant	Rotarex 2023	State level	Rotary club of satara	17 &18TH APRIL 2023
48	Mandhare akshata sachin	Participant	Rotarex 2023	State level	Rotary club of satara	17 &18TH APRIL 2023
49	Shinde monika ankush	Participant	Rotarex 2023	State level	Rotary club of satara	17 &18TH APRIL 2023
50	Kadam omkar nilesh	Participant	Rotarex 2023	State level	Rotary club of satara	17 &18TH APRIL 2023
51	Kadam rutuja umesh	Participant	Rotarex 2023	State level	Rotary club of satara	17 &18TH APRIL 2023
52	Kadam rushikesh sanjay	Participant	Rotarex 2023	State level	Rotary club of satara	17 &18TH APRIL 2023
53	Pawar sanket kushaba	Participant	Rotarex 2023	State level	Rotary club of satara	17 &18TH APRIL 2023
54	Phalke vaishnavi shankar	Participant	Rotarex 2023	State level	Rotary club of satara	17 &18TH APRIL 2023
55	Sawant pooja shankar	Participant	Cretechnova 2k23	National level	Svpms college of engineering, malegaon	20TH &21TH APRIL 2023
56	Pawar akanksha satish	Participant	Cretechnova 2k23	National level	Svpms college of engineering, malegaon	20TH &21TH APRIL 2023
57	Bandgar tejasvi shivaji	Participant	Cretechnova 2k23	National level	Svpms college of engineering, malegaon	20TH &21TH APRIL 2023
58	Waske abhijeet kisan	Participant	Cretechnova 2k23	National level	Svpms college of engineering, malegaon	20TH &21TH APRIL 2023
59	Deshmukh priya satish	Winner	Cretechnova 2k23	National level	Svpms college of engineering, malegaon	20TH &21TH APRIL 2023

60	Dangare pratik krushna	Winner	Cretechnova 2k23	National level	Svpms college of engineering, malegaon	20TH &21TH APRIL 2023
61	Kenjale gauri anandrao	Winner	Cretechnova 2k23	National level	Svpms college of engineering, malegaon	20TH &21TH APRIL 2023
62	Chavan rutika pursshottam	Winner	Cretechnova 2k23	National level	Svpms college of engineering, malegaon	20TH &21TH APRIL 2023
63	Bhoite aryan rajenda	Winner	Cretechnova 2k23	National level	Svpms college of engineering, malegaon	21ST &21TH APRIL 2023
64	Kate shweta milan	Runner	Cretechnova 2k23	National level	Svpms college of engineering, malegaon	21ST &21TH APRIL 2023
65	Jadhav shrikant sanjay	Participant	ICIRTES- 2023	Internati onal	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
66	Hingalkar vishal shivaji	Participant	ICIRTES- 2023	Internati onal	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
67	Nimbalkar snehal anandrao	Participant	ICIRTES- 2023	Internati onal	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
68	Shivathare namita rajaram	Participant	ICIRTES- 2023	Internati onal	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
69	Yadav priya lahu	Participant	ICIRTES- 2023	Internati onal	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
70	Sabale payal bhikaji	Participant	ICIRTES- 2023	Internati onal	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
71	Pharande mukta sunil	Participant	ICIRTES- 2023	Internati onal	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
72	Inamdar tushar jayant	Participant	ICIRTES- 2023	Internati onal	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023

73	Yadav akshaya pramod	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
74	Ghadage nikhesh suresh	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
75	Pechfule shashank vijaykumar	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
76	Deshmukh rupali santosh	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
77	Jagtap anisha rajendra	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
78	Mahamulkar nikhil ajit	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
79	Mahamulkar pooja	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
80	Kadam omkar dnyaneshwar	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
81	Jadhav anil shivaji	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
82	Dhayagave rushani nana	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
83	Shinde shivam sunil	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
84	Mahamulkar harshada kishor	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023

85	Dagade kshitija sunil	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
86	Nikam sanket ravsaheb	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
87	Kadam durga subhash	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
88	Chavan amruta sambhaji	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
89	Patil sandhya ashok	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
90	Deshpande namrata nandkumar	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
91	Waske abhijeet kisan	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
92	Deshmukh priya satish	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
93	Dangare pratik krushna	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
94	Kate shweta milan	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
95	Jadhav shrikant sanjay	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
96	Hingalkar vishal shivaji	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023

97	Nimbalkar snehal anandrao	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
98	Kadam durga subhash	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
99	Chavan amruta sambhaji	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
100	Patil sandhya ashok	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
101	Deshpande namrata nandkumar	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
102	Deshmukh rupali santosh	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
103	Jagtap anisha rajendra	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
104	Mahamulkar nikhil ajit	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
105	Mahamulkar pooja	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
106	Shinde shivam sunil	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
107	Mahamulkar harshada kishor	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
108	Dagade kshitija sunil	Participant	ICIRTES-2023	International	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023

109	Nikam sanket ravsaheb	Participant	ICIRTES- 2023	Internati onal	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023
110	Inamdar tushar jayant	Participant	ICIRTES- 2023	Internati onal	Arvind gavali college of engineering, satara	10/06/2023 TO 11/06/2023

Extra Co-curricular activities

YEAR 2022-23

Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Shubham dhane	Particiaption	Cricket	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023
2	Avishkar Kadam	Participant	Cricket	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023
3	Aayush Jadhav	Participant	Cricket	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023

4	Mustan attar	Participant	Cricket	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023
5	Rushikesh Gaikwad	Participant	Cricket	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023
6	Atharv Dhane	Participant	Chess	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023
7	Omkar Miraje	Participant	Chess	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023
8	Anniruddh a Kadam	Participant	Chess	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023
9	Hasan Shaikh	Participant	Chess	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023
10	Omkar Miraje	Participant	Chess	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023
11	Akanksha Matkar	Participant	Kabbadi	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023
12	Aishwarya Panvelkar	Participant	Kabbadi	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023

13	Aayush Jadhav	Participant	Kabbadi	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023
14	Avishkar Kadam	Participant	Kabbadi	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023
15	Sawant Omkar	Runner-up	Badminton (Men's Single)	State	Arvind Gavali College of Engineering Satara	5 th -8 th April 2023
16	Surve Swaraj	Winner	Interzonal Wrestling	State	Maharashtra State Wrestling Parishad	5-04-2023 to 9-04-2023

Co-curricular activities						
YEAR 2021-22						
Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Channe Ptatiksha Satish	First	Project Competition	National	Dr. Daulatrao Aher College of Engineering, Karad	20/05/2022
2	Kadam Omkar Nilesh	First	Project Competition	National	Dr. Daulatrao Aher College of Engineering, Karad	20/05/2022
3	Shinde Monika Ankush	First	Project Competition	National	Dr. Daulatrao Aher College of Engineering, Karad	20/05/2022
4	Chorage Sampada Pravin	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gvali College of Engineering	28-29 April 2022
5	Mahangade Vaishanavi Rajendra	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gvali College of Engineering	28-29 April 2022
6	Jadhav Dhanashree Rajesh	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gvali College of Engineering	28-29 April 2022
7	Nikam Prerana Balasaheb	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gvali College of Engineering	28-29 April 2022

8	Chavan Tanvi Dhansing	Participation	Internal Hackthon of Smart India Hackthon2022	College	Arvind Gvali College of Engineering	28-29 April 2022
9	Malusare Ankita Jannath	Participation	Internal Hackthon of Smart India Hackthon2022	College	Arvind Gvali College of Engineering	28-29 April 2022
Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Channe Ptatiksha Satish	First	Project Competition	National	Dr. Daulatrao Aher College of Engineering, Karad	20/05/2022
2	Kadam Omkar Nilesh	First	Project Competition	National	Dr. Daulatrao Aher College of Engineering, Karad	20/05/2022
3	Shinde Monika Ankush	First	Project Competition	National	Dr. Daulatrao Aher College of Engineering, Karad	20/05/2022
4	Chorage Sampada Pravin	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gvali College of Engineering	28-29 April 2022
5	Mahangade Vaishanavi Rajendra	Participation	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gvali College of Engineering	28-29 April 2022

6	Jadhav Dhanashree Rajesh	Participati on	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gvali College of Engineering	28-29 April 2022
7	Nikam Prerana Balasaheb	Participati on	Internal Hackthon of Smart India Hackthon 2022	College	Arvind Gvali College of Engineering	28-29 April 2022
8	Chavan Tanvi Dhansing	Participati on	Internal Hackthon of Smart India Hackthon202 2	College	Arvind Gvali College of Engineering	28-29 April 2022
9	Malusare Ankita Jannath	Participati on	Internal Hackthon of Smart India Hackthon202 2	College	Arvind Gvali College of Engineering	28-29 April 2022

Extra Co-curricular activities

YEAR 2021-22

Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Pawar Sanket Kushaba	Volunteer	Satara Hil Marathon	Distict level	Satara Runners	18 th sep 2022
2	Kenjale Gauri Anadrao	Volunteer	Satara Hil Marathon	Distict level	Satara Runners	18 th sep 2022
3	Chavan Rutika Purshottam	Volunteer	Satara Hil Marathon	Distict level	Satara Runners	18 th sep 2022
4	Savant Shankar Pooja	Volunteer	Satara Hil Marathon	Distict level	Satara Runners	18 th sep 2022
5	Karanjkar Riddhi Mahesh	Volunteer	Satara Hil Marathon	Distict level	Satara Runners	18 th sep 2022

NPTEL CERTIFICATION

YEAR 2021-22

Sr. no	Roll Number	Course Name	Name	Final Score	Certificate Type
1	NPTEL21HS76S44310057	Soft Skills	Vaishnavi Rajendra Mahangade	58	Successfully completed

Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Shinde Prajakta Rajaram	IV Rank	Shivaji University	University	Shivaji University	28th May 2021
2	Gavali Manisha Krushnakant	Participation	Webinar on Intellectual Property Rights'	Institute	Arvind Gavali College of Engineering	28th May 2021
3	Gurav Kanchan Dattatray	Participation	Webinar on Intellectual Property Rights'	Institute	Arvind Gavali College of Engineering	28th May 2021
4	Gavali Manisha Krushnakant	Participation	PRAYOG -2021	State Level Project Exhibition	Arvind Gavali College of Engineering	9th April 2021
5	Gowarikar Rutvik Ajit	Participation	PRAYOG -2021	State Level Project Exhibition	Arvind Gavali College of Engineering	9th April 2021
6	Jadhav Akshay Arun	Participation	PRAYOG -2021	State Level Project Exhibition	Arvind Gavali College of Engineering	9th April 2021
7	Jadhav Ashwini Sudhakar	Participation	PRAYOG -2021	State Level Project Exhibition	Arvind Gavali College of Engineering	9th April 2021
8	Jagdale Kajal Somnath	Participation	PRAYOG -2021	State Level Project Exhibition	Arvind Gavali College of Engineering	9th April 2021

9	Jayant Sanjay Pawar	Participation	PRAYOG -2021	State Level Project Exhibition	Arvind Gavali College of Engineering	9th April 2021
10	Salunkhe Rushikesh Ramesh	Participation	PRAYOG -2021	State Level Project Exhibition	Arvind Gavali College of Engineering	9th April 2021
11	Sawant Shital Mahadev	Participation	PRAYOG -2021	State Level Project Exhibition	Arvind Gavali College of Engineering	9th April 2021
12	Shinde Akshay Sanjay	Participation	PRAYOG -2021	State Level Project Exhibition	Arvind Gavali College of Engineering	9th April 2021

Extra Co-curricular activities

YEAR 2020-21

Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Pratiksha Channe	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust, Satara (Balaji Blood Bank, Satara)	22-02-2021
2	Pooja Bhupal Patil	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust, Satara (Balaji Blood Bank, Satara)	22-02-2021
3	Shivani Sanjay Kadam	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust, Satara (Balaji Blood Bank, Satara)	22-02-2021
4	Sanket Ramesh Panhalkar	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust, Satara (Balaji Blood Bank, Satara)	22-02-2021
5	Adarsh Rajendra Kumbhar	Participation	Blood Donation Camp	Institute	Varad Charitable and Medical Trust, Satara (Balaji Blood Bank, Satara)	22-02-2021
6	Abhijeet Waske	Participation	Chess Mania	Institute	Arvind Gavali College of Engineering Satara	11-02-2021
7	Pawar Shravani Pradip	Volunteer	Satara Hill Marathon	International	Satara Runners	12-12-2021

8	Bhosale Jeevan Shivaji	Volunteer	Satara Hill Marathon	International	Satara Runners	12-12-2021
9	Kadam Rushikesh Sanjay	Volunteer	Satara Hill Marathon	International	Satara Runners	12-12-2021
10	Kadam Omkar Nilesh	Volunteer	Satara Hill Marathon	International	Satara Runners	12-12-2021

Co-curricular activities**YEAR 2019-20**

Sr No	Name of Student	Name of the Event	Level	Event Organized Institute	Date of Event
1	Bandal Tushar Jayawant.	Two Days Workshop On Robo Making	Intercollegiate	Arvind Gavali College Of Engineering	24-09-2019
2	Gowarkar Rutvik Ajit.	Two Days Workshop On Robo Making	Intercollegiate	Arvind Gavali College Of Engineering	24-09-2019
3	Pawar Kuldeep Shivaji.	Two Days Workshop On Robo Making	Intercollegiate	Arvind Gavali College Of Engineering	24-09-2019
4	Wayadande Vidya Tulshira	Two Days Workshop On Robo Making	Intercollegiate	Arvind Gavali College Of Engineering	24-09-2019
5	Jadhav Ashwini Sudhakar	Two Days Workshop On Robo Making	Intercollegiate	Arvind Gavali College Of Engineering	24-09-2019
6	Shinde Mayuri Krushanat	Two Days Workshop On Robo Making	Intercollegiate	Arvind Gavali College Of Engineering	24-09-2019
7	Kulkarni Vishwjeet Amol	Two Days Workshop On Robo Making	Intercollegiate	Arvind Gavali College Of Engineering	24-09-2019
9	Avinash Shahaji Waghmare	Two Days Workshop On Robo Making	Intercollegiate	Arvind Gavali College Of Engineering	24-09-2019

10	Salunkhe Snehal Vijay	Two Days Workshop On Robo Making	Intercollegiate	Arvind Gavali College Of Engineering	24-09-2019
11	Pawar Pooja Dattatraya	Two Days Workshop On Robo Making	Intercollegiate	Arvind Gavali College Of Engineering	24-09-2019
12	Salunkhe Rushikesh Ramesh	Two Days Workshop On Robo Making	Intercollegiate	Arvind Gavali College Of Engineering	24-09-2019
13	Akshata Mahesh Urane	Two Days' Workshop On PCB Design, Simulation And Testing	Intercollegiate	Arvind Gavali College Of Engineering Satara	28 And 29 Sept 2019
14	Rakshata Mahadev Bhingare	Two Days' Workshop On PCB Design, Simulation And Testing	Intercollegiate	Arvind Gavali College Of Engineering Satara	28 And 29 Sept 2019
15	Mrunali Kishor Deoghare	Two Days' Workshop On PCB Design, Simulation And Testing	Intercollegiate	Arvind Gavali College Of Engineering Satara	28 And 29 Sept 2019
16	Mayuri Chandrakant Shingte	Two Days' Workshop On PCB Design, Simulation And Testing	Intercollegiate	Arvind Gavali College Of Engineering Satara	28 And 29 Sept 2019
17	Poonam Madhukar Chavan	Two Days' Workshop On PCB Design, Simulation And Testing	Intercollegiate	Arvind Gavali College Of Engineering Satara	28 And 29 Sept 2019
18	Tanuja Vishvas Chavan	Two Days' Workshop On PCB Design, Simulation And Testing	Intercollegiate	Arvind Gavali College Of Engineering Satara	28 And 29 Sept 2019

19	Akshata Pandurang Patil	Two Days' Workshop On PCB Design, Simulation And Testing	Intercollegiate	Arvind Gavali College Of Engineering Satara	28 And 29 Sept 2019
20	Rajashri Dajiram Deshmukh	Two Days' Workshop On PCB Design, Simulation And Testing	Intercollegiate	Arvind Gavali College Of Engineering Satara	28 And 29 Sept 2019
21	Priyanka Rajendra Chavan	Two Days' Workshop On PCB Design, Simulation And Testing	Intercollegiate	Arvind Gavali College Of Engineering Satara	28 And 29 Sept 2019
22	Shital Mahadev Sawant	Two Days' Workshop On PCB Design, Simulation And Testing	Intercollegiate	Arvind Gavali College Of Engineering Satara	28 And 29 Sept 2019
23	Bhagyashri Raghunath Mali	Two Days' Workshop On PCB Design, Simulation And Testing	Intercollegiate	Arvind Gavali College Of Engineering Satara	28 And 29 Sept 2019

Extra Co-curricular activities

YEAR 2019-20

Sr No	Name of Student	Rank	Name of the event	Level	Event organized Institute	Date of Event
1	Akash Bhimrao Chougule	Participant	Swachhata at ST Bus stand, Civil Hospital, RTO Office	Institute	Arvind Gavali College of Engineering	22/02/2020

2	Akshay Arun Jadhav	Participant	Swachhata at ST Bus stand, Civil Hospital, RTO Office	Institute	Arvind Gavali College of Engineering	22/02/2020
3	Namrata Ramdas Chavan	Participant	Swachhata at ST Bus stand, Civil Hospital, RTO Office	Institute	Arvind Gavali College of Engineering	22/02/2020
4	Amit Rajendra Pawar	Participant	Swachhata at ST Bus stand, Civil Hospital, RTO Office	Institute	Arvind Gavali College of Engineering	22/02/2020
5	Bandal Tushar Jayawant.	Participant	Swachhata at ST Bus stand, Civil Hospital, RTO Office	Institute	Arvind Gavali College	22/02/2020
6	Avinash Shahaji Waghmare	Participant	Swachhata at ST Bus stand, Civil Hospital, RTO Office	Institute	Arvind Gavali College of Engineering	22/02/2020
7	Priyanka Rajendra Chavan	Participant	Swachhata at ST Bus stand, Civil Hospital, RTO Office	Institute	Arvind Gavali College of Engineering	22/02/2020
8	Mayuri Chandrakant Shingte	Participant	Swachhata at ST Bus stand, Civil Hospital, RTO Office	Institute	Arvind Gavali College of Engineering	22/02/2020
9	Rakshata Mahadev Bhingare	Participant	Swachhata at ST Bus stand, Civil Hospital, RTO Office	Institute	Arvind Gavali College of Engineering	22/02/2020

10	Mrunali kishor deoghare	Participant	Swachhata at ST Bus stand, Civil Hospital, RTO Office	Institute	Arvind Gavali College of Engineering	22/02/2020
11	Akshata Pandurang Patil	Participant	Swachhata at ST Bus stand, Civil Hospital, RTO Office	Institute	Arvind Gavali College of Engineering	22/02/2020
12	Tanuja Vishvas Chavan	Participant	Swachhata at ST Bus stand, Civil Hospital, RTO Office	Institute	Arvind Gavali College of Engineering	22/02/2020
13	Rajashri Dajiram Deshmukh	Participant	Swachhata at ST Bus stand, Civil Hospital, RTO Office	Institute	Arvind Gavali College of Engineering	22/02/2020
14	Shirke Amit Krishna	Participant	Road Safety Awareness	Institute	Arvind Gavali College of Engineering	21/02/2020
15	Bhoite Akash Prataprao	Participant	Road Safety Awareness	Institute	Arvind Gavali College of Engineering	21/02/2020
16	Chavan Mahesh Tanaji	Participant	Road Safety Awareness	Institute	Arvind Gavali College of Engineering	21/02/2020
17	Sawant Pratiksha Shankar	Participant	Road Safety Awareness	Institute	Arvind Gavali College of Engineering	21/02/2020
18	Jadhav Komal Sanjay	Participant	Road Safety Awareness	Institute	Arvind Gavali College of Engineering	21/02/2020
19	Mahadik Omkar Sanjay	Participant	Road Safety Awareness	Institute	Arvind Gavali College of Engineering	21/02/2020

20	Ghorpade Pranalii Ramchandra	Participant	Road Safety Awareness	Institute	Arvind Gavali College of Engineering	21/02/202 0
21	Kumbhar Dhanashree Sharad	Participant	Road Safety Awareness	Institute	Arvind Gavali College of Engineering	21/02/202 0
22	Chavan Varsha Kashinath	Participant	Road Safety Awareness	Institute	Arvind Gavali College of Engineering	21/02/202 0

23	Khan Misba Khalil	Participant	Road Safety Awareness	Institute	Arvind Gavali College of Engineering	21/02/2020
24	Kadam Vaishnavi Rajendra	Participant	Road Safety Awareness	Institute	Arvind Gavali College of Engineering	21/02/2020
25	Kadam Shrihari Vijay	Participant	Road Safety Awareness	Institute	Arvind Gavali College of Engineering	21/02/2020
26	Bhosale Pooja Gorakh	Participant	Road Safety Awareness	Institute	Arvind Gavali College of Engineering	21/02/2020
27	Patel Simran Allaiddin	Participant	NSS Camp	Institute	Arvind Gavali College of Engineering	11-13 Oct2019
28	Shaikh Fariyad Rashid	Participant	NSS Camp	Institute	Arvind Gavali College of Engineering	11-13 Oct2019
29	Jadhav Trupti Sandip	Participant	NSS Camp	Institute	Arvind Gavali College of Engineering	11-13 Oct2019

30	Kadam Omkar Navnath	Participant	NSS Camp	Institute	Arvind Gavali College of Engineering	11-13 Oct2019
31	Akshay Arun Jadhav	Participant	Blood Donation Camp	Institute	Arvind Gavali College of Engineering	20/02/2020
32	Mahadik Darshan Deepak	Participant	Blood Donation Camp	Institute	Arvind Gavali College of Engineering	20/02/2020
33	Shinde Ganesh Sanjay	Participant	Blood Donation Camp	Institute	Arvind Gavali College of Engineering	20/02/2020
34	Shinde Dhiraj Krushna	Participant	Blood Donation Camp	Institute	Arvind Gavali College of Engineering	20/02/2020
35	Bandal Tushar Jayawant.	Participant	Blood Donation Camp	Institute	Arvind Gavali College of Engineering	20/02/2020
36	Abhijeet Sanjay Rajpure	Participant	Blood Donation Camp	Institute	Arvind Gavali College of Engineering	20/02/2020
37	Kulkarni Vishwaje et Amol	Participant	Blood Donation Camp	Institute	Arvind Gavali College of Engineering	20/02/2020
38	Mahadik Darshan Deepak	Volunteer	Satara Hill Marathon	Internati onal	Satara Runners	25/08/2019
39	Kadam Shrihari Vijay	Volunteer	Satara Hill Marathon	Internati onal	Satara Runners	25/08/2019
40	Bhosale Pooja Gorakh	Volunteer	Satara Hill Marathon	Internati onal	Satara Runners	25/08/2019

41	Chavan Mahesh Tanaji	Volunteer	Satara Hill Marathon	Internati onal	Satara Runners	25/08/2019
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CRITERION 05	Faculty Information and Contributions	200
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Academic Year: 2022 – 2023:

Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which designated as Professor/Associate	Date of joining the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N)	Date of Leaving (In case of leaving)	Nature of Association (Regular/Contract)
	Degree (Highest Degree)	University	Year of Attaining Highest Qualification							Research Paper Publications	PhD Guidance	Faculty Receiving Ph.D. during the Assessment Years			
Dr. Vishal Sharad Hingmire	PhD	VTU	2023	Y	Asst. Prof.		12/02/2011	E&TC	Electronics and Telecommunication	5	-	-	Y		Regular Approved
Dr. Gayatri Shashikant Mirajkar	PhD	Shivaji University	2014	Y	Professor	01/07/2019	01/10/2012	E&TC	Electronics Engineering	21	-	-	Y		Regular Approved
Dayanand Bajirao Jagtap	ME	Shivaji University	2015	Y	Asst. Prof.		01/01/2014	E&TC	Electronics	5	-	-	Y		Regular Approved
Vishnu Chandrakant Khade	ME	Shivaji University	2014	Y	Asst. Prof.		29/06/2015	E&TC	Electronics	2	-	-	Y		Regular Approved
Pratima Nandkumar Mahamuni	ME	SPPU	2016	Y	Asst. Prof.		15/08/2015	E&TC	Electronics (Digital System)	2	-	-	Y		Regular
Snehal Prakash Jadhav	ME	Shivaji University	2015	Y	Asst. Prof.		31/12/2015	E&TC	Electronics and Telecommunication	2	-	-	Y		Regular
Rahul Prakash Sakhare	MTech	Solapur University	2017	Y	Asst. Prof.		01/06/2019	E&TC	Electronics and Telecommunication Engineering	0	-	-	Y		Regular
Tanuja Krushnath Phadtare	M.Tech	DBATU	2019	Y	Asst. Prof.		01/04/2021	E&TC	Electronics Engineering	1	-	-	Y		Regular
Santosh Gulabrao Chavan	ME	Shivaji University	2013	Y	Asst. Prof.		01/08/2021	E&TC	Electronics and Telecommunication (Communication Network)	10	-	-	Y		Regular
Dr. Shivajirao Sangale	PhD	Shivaji University	1993	Y	Associate		01/04/2022	E&TC	Electronics		-	-	N		Regular

					Prof.									
Mrs. Sanskruti Nalawade(Ghadge)	M Tech	DBATU	2019	Y	Asstt. Prof.		01/07/2022	E&TC	Electronics	2			Y	Regular

Academic Year: 2021 – 2022:

Name of the Faculty Member	Qualification			Association with the	Designation	Date on which designated as	Date of joining the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N)	Date of Leaving (In case currently associated is)	Nature of Association (Regular/Contract)
	Degree (Highest Degree)	University	Year of Attaining Highest Qualification							Research Paper Publications	PhD Guidance	Faculty Receiving Ph.D. during the Assessment Years			
Vishal Sharad Hingmire	ME	Shivaji University	2013	Y	Asstt. Prof.		12/02/2011	E&TC	Electronics and Telecommunication	7	-	-	Y	Regular Approved	
Dr. Gayatri Shashikant Mirajkar	PhD	Shivaji University	2014	Y	Professor	01/07/2019	01/10/2012	E&TC	Electronics Engineering	16	-	-	Y	Regular Approved	
Dayanand Bajirao Jagtap	ME	Shivaji University	2015	Y	Asstt. Prof.		01/01/2014	E&TC	Electronics	5	-	-	Y	Regular Approved	
Vishnu Chandrakant Khade	ME	Shivaji University	2014	Y	Asstt. Prof.		29/06/2015	E&TC	Electronics	2	-	-	Y	Regular Approved	
Pratima Nandkumar Mahamuni	ME	SPPU	2016	Y	Asstt. Prof.		15/08/2015	E&TC	Electronics (Digital System)	2	-	-	Y	Regular	
Snehal Prakash Jadhav	ME	Shivaji University	2015	Y	Asstt. Prof.		31/12/2015	E&TC	Electronics and Telecommunication	2	-	-	Y	Regular	
Rahul Prakash Sakhare	MTech	Solapur University	2017	Y	Asstt. Prof.		01/06/2019	E&TC	Electronics and Telecommunication Engineering	0	-	-	Y	Regular	
Tanuja Krushnath Phadtare	M.Tech	Dr. Babasahab Ambedkar Technological	2019	Y	Asstt. Prof.		01/04/2021	E&TC	Electronics Engineering	1	-	-	Y	Regular	

		University												
Santosh Gulabrao Chavan	ME	Shivaji University	2013	Y	Asstt. Prof.		01/08/2021	E&TC	Electronics and Telecommunication (Communication Network)	10	-	-	Y	Regular
Ketaki Sanjay Sawashe	M.Tech	SPPU	2019	Y	Asstt. Prof.		16/09/2021	E&TC	Electronics and Telecommunication	0	-	-	N	Regular
Tejashree Suresh Balgude	MTech	Shivaji University	2017	Y	Asstt. Prof.		16/09/2021	E&TC	Electronics (Digital Systems) Engineering	2	-	-	N	Regular

Academic Year: 2020 – 2021:

Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor/ Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In case Currently Associated is (" No")	Nature of Association (Regular/Contract)
	Degree (highest degree)	University	Year of attaining higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty Receiving Ph.D. during the Assessment Years		
Vishal Sharad Hingmire	ME	Shivaji University	2013	Y	Asstt. Prof.		12/02/2011	E&TC	Electronics and Telecommunication	7	-	-	Y	Regular Approved
Dr. Gayatri Shashikant Mirajkar	PhD	Shivaji University	2014	Y	Professor	01/07/2019	01/10/2012	E&TC	Electronics Engineering	16			Y	Regular Approved
Dayanand Bajirao Jagtap	ME	Shivaji University	2015	Y	Asstt. Prof.		01/01/2014	E&TC	Electronics	5	-	-	Y	Regular Approved
Vijay Tukaram Barkade	M.Tech	SPPU	2014	Y	Asstt. Prof.		02/04/2015	E&TC	Electronics and Telecommunication Engineering (Wired and Wireless Communication)	5	-	-	N	Regular

Vishnu Chandrakant Khade	ME	Shivaji University	2014	Y	Asstt. Prof.		29/06/2015	E&TC	Electronics	2	-	-	Y	Regular Approved
Pratima Nandkumar Mahamuni	ME	SPPU	2016	Y	Asstt. Prof.		15/08/2015	E&TC	Electronics (Digital System)	2	-	-	Y	Regular
Snehal Prakash Jadhav	ME	Shivaji University	2015	Y	Asstt. Prof.		31/12/2015	E&TC	Electronics and Telecommunication		-	-	Y	Regular
Hanamant Mahadev Havagondi	MTech	Shivaji University	2014	Y	Asstt. Prof.		01/02/2017	E&TC	Electronics	2	-	-	N	Regular
Pravin Hanumanta Pawar	M.Tech	VTU	2015	Y	Asstt. Prof.		01/01/2019	E&TC	Digital Electronics and Communication Systems	0			Y	Regular
Atul Bharat Nikam	MTech	VIT Vellore	2013	Y	Asstt. Prof.		01/01/2019	E&TC	Nanotechnology	0			N	Regular
Rahul Prakash Sakhare	MTech	Solapur University	2017	Y	Asstt. Prof.		01/06/2019	E&TC	Electronics and Telecommunication Engineering	0	-	-	Y	Regular
Vivek Chandrakant Mohite	MTech	SPPU	2016	Y	Asstt. Prof.		07/01/2020	E&TC	Electronics and Telecommunication (Communication Network)	3			N	Regular
Anuradha Manik Kambale	ME	Shivaji University	2016	Y	Asst. Prof.		02/01/2017	E&TC	Electronics and Telecommunication	3			Y	Regular

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 2nd Year = u1

No. of Students in UG 3rd Year = u2

No. of Students in UG 4th Year = u3

No. of Students in PG 1st Year = p1

No. of Students in PG 2nd Year = p2

No. of Students = Sanctioned Intake + Actual Admitted Lateral Entry Students
(The above data to be provided considering all the UG and PG programs of the department)

S = Number of Students in the Department = UG1 + UG2 + UG3 + PG1 + PG2

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

Student Teacher Ratio (STR) = S/F

Year	CAY (2022-23)	CAYm1 (2021-22)	CAYm2 (2020-21)
u1.1	60 + 6	60 + 6	60 + 2
u1.2	60 + 6	60 + 2	60 + 0
u1.3	60 + 2	60 + 0	60 + 0
UG1 = u1.1 + u1.2 + u1.3		188	182
Total No. of Students in the Department (S) = UG1 + UG2 + ... + UGn + PG1 + ... + PGn	194	188	182
No. of Faculty in the Department (F)	F1 = 11	F1 = 11	F2 = 13
Student Faculty Ratio (SFR)	SFR1 = S1/F1 = 17.64	SFR2=S1/F1 = 17.09	SFR3= S2/F2 = 14
Average SFR	SFR=(SFR1+SFR2+SFR3)/3 = 16.24		

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 regular faculty in the department	Total number of contractual faculty in the department
CAY	11	0
CAYm1	11	0
CAYm2	13	0

5.2 Faculty Cadre Proportion

(20)

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

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

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

F3: Number of Assistant Professors required = $\frac{6}{9} \times$ Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

Table B.5.2

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY	1.07	1	2.15	1	6.46	09
CAY m1	1.04	1	2.08	0	6.26	10
CAY m2	1.01	1	2.02	0	6.06	12
Average Number s	RF1=1.04	AF1=1	RF2=2.08	AF2=0.33	RF3=6.26	AF3=1 0.00

$$\begin{aligned} \text{Cadre Ratio Marks} &= \left[\left[\frac{AF1}{RF1} \right] + \left[\frac{AF2}{RF2} \times 0.6 \right] + \left[\frac{AF3}{RF3} \times 0.4 \right] \right] \times 12.5 \\ &= \left[\left[\frac{1}{1.04} \right] + \left[\frac{0.33}{2.08} \times 0.6 \right] + \left[\frac{10.33}{6.26} \times 0.4 \right] \right] \times 12.5 = 21.46 \end{aligned}$$

If AF1 = AF2 = 0 then zero marks

Maximum marks to be limited if it exceeds 25

Institute Marks: 21.46

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 = $(1+0.6+0.4) \times 12.5 = 25$

Case 2: AF1/RF1 = 1; AF2/RF2 = 3/2; AF3/RF3 = 5/6; Cadre proportion marks = $(1+0.9+0.3) \times 12.5 =$ limited to 25

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

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)

Table B.5.3

Years	X	Y	F	$FQ = 2.5 \times [(10X + 4Y)/F]$
CAY	2	09	9.7	14.43
CAY _{m1}	1	10	9.4	13.29
CAY _{m2}	1	12	9.1	15.94
Average Assessment				14.22

Institute Marks: 14.55

5.4 Faculty Retention

(25)

No. of regular faculty members in CAY_{m2} = 13 (Required faculty = 09)

No. of regular faculty members in CAY_{m1} = 11 (Required faculty = 09)

No. of regular faculty members in CAY = 11 (Required faculty = 09)

% of faculty retained during the period of assessment = $(7/11) \times 100\% = 63.64\%$

% of faculty retained during the period of assessment = $(7/10) \times 100\% = 70\%$

Year	CAY m2 (2020 – 2021)	CAY m1 (2021-2022)	CAY (2022-2023)
No. of Faculty Retained	11	7	7
No. of Faculty in the base year (2020 – 2021)	13	11	13
Faculty Retention (%)	84.62%	53.85%	53.85%

Average Retention (%) = 64.11%

Institute Marks: 15

Item	Marks
(% of faculty retained during the period of assessment keeping CAY _{m2} as base year)	
>=90% of required Faculty members retained during the period of assessment keeping CAY _{m2} as base year)	25

>=75% of required Faculty members retained during the period of assessment keeping CAYm2 as base year)	20
>=60% of required Faculty members retained during the period of assessment keeping CAYm2 as base year)	15
>=50% of required Faculty members retained during the period of assessment keeping CAYm2 as base year)	10
<50% of required Faculty members retained during the period of assessment keeping CAYm2 as base year)	0

5.5 Innovations by the Faculty in Teaching and Learning

(20)

Innovations by the Faculty in 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 E&TC 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 faculty and students. The faculty has been using MOODLE since 2019. Using MOODLE faculty has created courses in their respective programs. Assignment questions, course material, presentations, and other material needed by the students for study purposes is uploaded on MOODLE (Screenshot attached). The students are enrolled after access is given to them by the MOODLE administrator.



Figure 5.5.1 Screenshot of Institute Home Page with Link to MOODLE

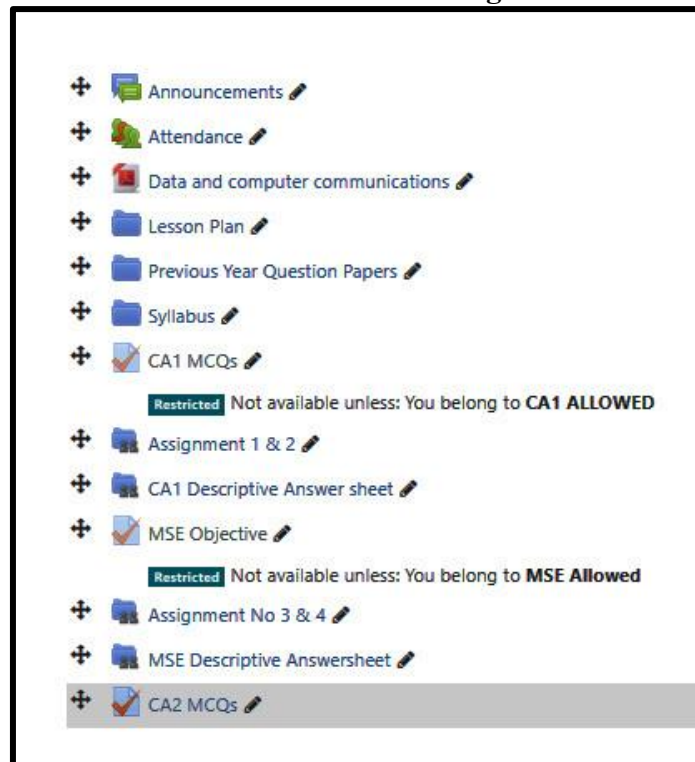


Figure 5.5.2 Screenshot of MOODLE Page of the Subject: Computer Network and Cloud Computing (Final Year B.Tech E&TC)

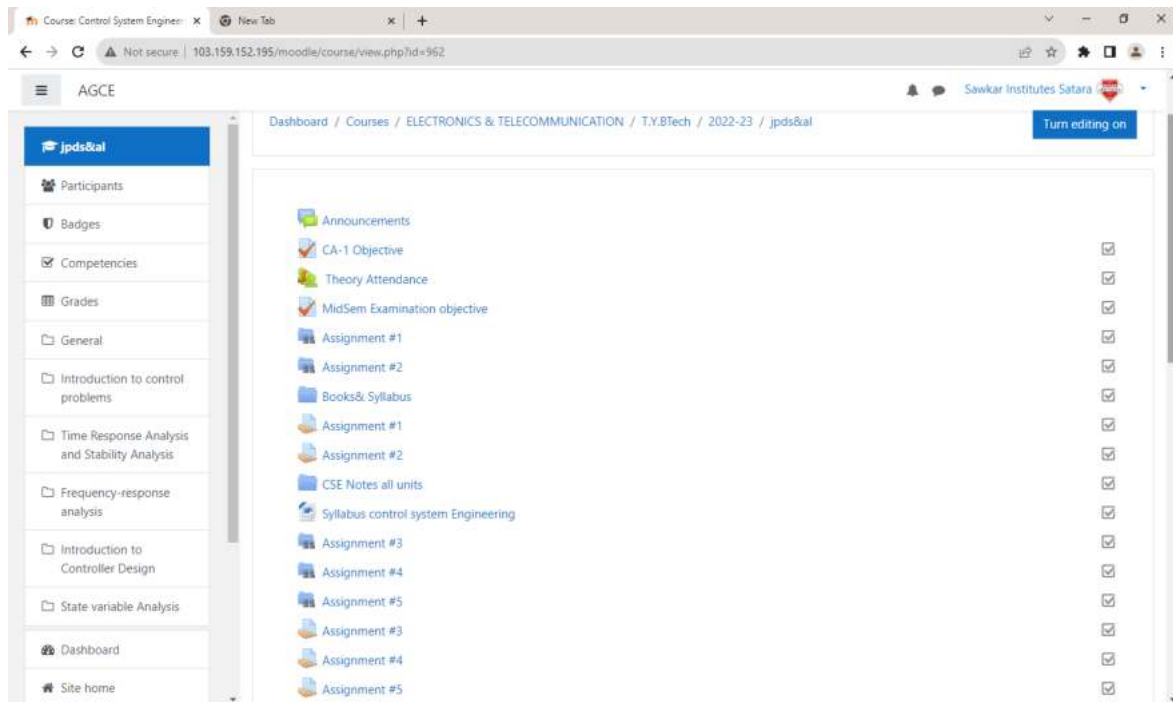


Figure 5.5.3 Screenshot of MOODLE Page of the Subject: Control System Engineering (TY B.Tech E&TC)

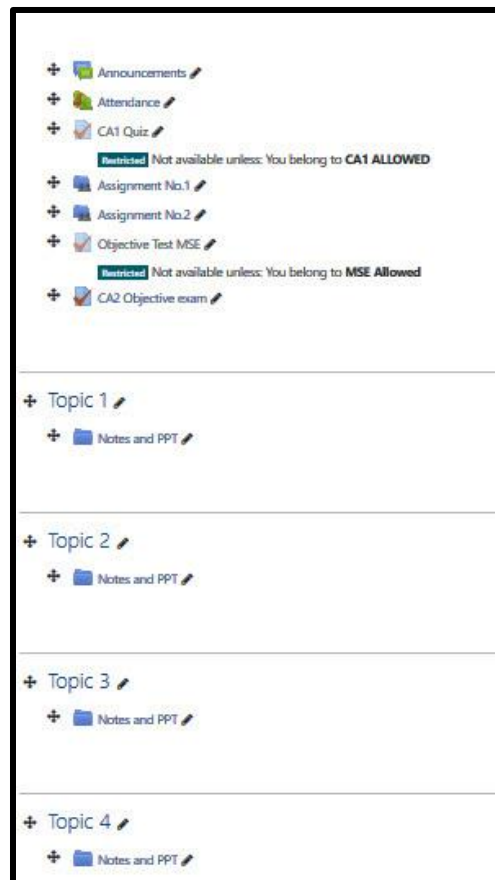


Figure 5.5.4 Screenshot of MOODLE Page of the Subject: PYTHON (SY B.Tech E&TC)

▪ **Timetable:**

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





Samarth Educational Trust's Arvind Gavali College of Engineering, Satara Academic Calendar 2022-23 Term-I						
September-2022						
1-10 Sept. Commencement of Classes and Admissions: B.Tech Second, Third and Final Year; M.Tech Second Year						
1 Sept.-19 Dec. NPTEL/SWAYAM/Coursera Certification						
1-10 Sept. M.Tech Dissertation Exam of A.Y. 2021-22						
5 Sept. Teacher's Day Celebration & Nirmalya collection activity						
5-10 Sept. Guest Lecture/Industrial Visit/ Statutory Committee meeting						
6-23 Sept. Induction Program						
12 Sept. Formation of Project Batches & Domain Selection						
15-18 Sept. Engineers Day Celebration and Convocation Ceremony						
18 Sept. Satara Hill Half Marathon						
19 Sept. Synopsis Submission						
24 Sept. Synopsis Approval						
24 Sept. No Vehicle Day						
26-30 Sept. CA1 Objective and Descriptive Examination						
Probable Holidays: 09 September: Anant Chaturdashi						
Academic Days: 25						
October-2022						
1-2 Oct. Swachh Bharat Abhiyan						
3-8 Oct. Guest Lecture/Industrial Visit/ Statutory Committee meeting						
8 Oct. Display of Attendance, List of defaulter students and Letter dispatching						
7-8 Oct. International Conference						
8 Oct. Workshop on Entrepreneurship Development Phases						
12-23 Oct. Mid Semester Examination						
18-21 Oct. Submission of M.Tech Dissertation Proposal to University						
29 Oct. No Vehicle Day						
28-31 Oct. Display of Mid Semester Exam Marks						
Probable Holidays: 2 October: Mahatma Gandhi Jayanti; 5 October: Dussehra, 9 October: Eid-E-Milad, 24 October: Diwali Lakmi Pujan, 26 October: Diwali Balgratipada						
Academic Days: 23						
November-2022						
1-3 Nov. Scrutiny of Master's Level Dissertation Work Proposal						
1-5 Nov. Guest Lecture/Industrial Visit/ Statutory Committee meeting						
5 Nov. Display of Attendance, List of defaulter students and Letter dispatching						
1-8 Nov. Exam Form Filling for Regular & Supplementary Examination						
5 Nov. Parents Meet						
9-15 Nov. Exam Form Filling for Regular & Supplementary Examinations with Late Fee						
10-12 Nov. Yugam 2022						
17-19 Nov. University Tech Fest						
28 Nov. No Vehicle Day						
Probable Holidays: 8 November: Guru Nanak Jayanti						
Academic Days: 25						
December-2022						
5-10 Dec. Guest Lecture/Industrial Visit/ Statutory Committee meeting						
12-17 Dec. CA2 Objective and Descriptive Examination						
19 Dec. End of Classes						
19 Dec. Display of Final Attendance, List of defaulter students and Letter dispatching						
20-23 Dec. Practical/Project/Seminar Examinations						
22-24 Dec. Uploading Internal, Mid Semester, Practical, Project & Seminar marks to University portal						
24 Dec. Parents Meet						
26 Dec.-21 Jan. End Semester & Supplementary Examination						
31 Dec. No Vehicle Day						
Probable Holidays: 25 December: Christmas						
Academic Days: 27						
January-2023						
26 Dec.-21 Jan. End Semester & Supplementary Examination						
2-7 Jan. Guest Lecture/Industrial Visit/ Statutory Committee meeting						
22-31 Jan. Industrial Training						
26 Jan. Republic Day Celebration						
28 Jan. No Vehicle Day						
Probable Holidays: 14 Jan: Makar Sankranti, 26 Jan: Republic Day Celebration						
Academic Days: 24						
Every department shall conduct the following programs for the current semester						
1. Career Guidance by Industry Experts & Alumni etc.						
2. Seminar, Conference, Workshop, STTP						
3. Remedial/ Academically Bright & weak students classes						
4. Industry- Institute Interaction Activities						
  						

Figure 5.5.5 Academic Calendar for the Academic Year 2022 – 23 (Odd Semester)

Samarth Educational Trust's Arvind Gavali College of Engineering, Satara Academic Calendar 2022-23 Term-II							
							
February-2023							
Week	SUN	MON	TUE	WED	THU	FRI	SAT
1				1	2	3	4
2	5	6	7	8	9	10	11
3	12	13	14	15	16	17	18
4	19	20	21	22	23	24	25
5	26	27	28				
1 Feb. Commencement of Classes 1 Feb.-27 May NPTEL/SWAYAM/Coursera Certification 6-11 Feb. Guest Lecture/Industrial Visit/ Statutory Committee meeting 12-18 Feb. NSS Camp 12-18 Feb. Cultural Days 19 Feb. Celebration of Shri Jayanti 20-25 Feb. Faculty appreciation and Trust day celebration 21 Feb.-3 Mar. Remedial Examination 25 Feb. No Vehicle Day 27 Feb.-4 Mar. CA1 Objective and Descriptive Examination Probable Holidays: 18 February Mahashivratri; 19 February: Cha. Shivaji Maharaj Jayanti Academic Days: 24							
March-2023							
Week	SUN	MON	TUE	WED	THU	FRI	SAT
5				1	2	3	4
6	5	6	7	8	9	10	11
7	12	13	14	15	16	17	18
8	19	20	21	22	23	24	25
9	26	27	28	29	30	31	
21 Feb.-3 Mar. Remedial Examination 27 Feb.-4 Mar. CA1 Objective and Descriptive Examination 4 Mar. Display of Attendance, List of defaulter students and Letter dispatching 6-11 Mar. Guest Lecture/Industrial Visit/ Statutory Committee meeting 11 Mar. Alumni Meet 18 Mar. No Vehicle Day 20-24 Mar. Sports week 25 Mar. Annual Gathering Probable Holidays: 8 March:Dhulivandan, 22 March:Gudhi Padwa Academic Days: 25							
April-2023							
Week	SUN	MON	TUE	WED	THU	FRI	SAT
9							1
10	2	3	4	5	6	7	8
11	9	10	11	12	13	14	15
12	16	17	18	19	20	21	22
13	23	24	25	26	27	28	29
14	30						
1 April Display of Attendance, List of defaulter students and Letter dispatching 3-8 April Mid Sem Exam 9-8 April Guest Lecture/Industrial Visit/ Statutory Committee meeting 14 April Celebration of Dr. Babasaheb Ambedkar Jayanti 12-15 April Display of Mid Semester Marks to Students 15 April Parents Meet 29 April No Vehicle Day Probable Holidays: 7 April: Good Friday, 14 April: Dr. Babasaheb Ambedkar Jayanti, 22 April:Ramzan Eid Academic Days: 22							
May-2023							
Week	SUN	MON	TUE	WED	THU	FRI	SAT
14							2
15	1	2	3	4	5	6	7
16	8	9	10	11	12	13	14
17	15	16	17	18	19	20	21
18	22	23	24	25	26	27	28
2-8 May Exam form filling for Regular & Supplementary Examinations 6 May Display of Attendance, List of defaulter students and Letter dispatching 8-13 May Guest Lecture/Industrial Visit/ Statutory Committee meeting 9-13 May Exam form filling for Regular & Supplementary Examinations with late fees 20 May No Vehicle Day 22-27 May CA2 Objective and Descriptive Examination 27 May End of Classes 27 May Display of Final Attendance, List of defaulter students and Letter dispatching 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 portal Probable Holidays: 1 May: Maharashtra Day, 5 May: Buddha Pournima Academic Days: 25							
June-2023							
Week	SUN	MON	TUE	WED	THU	FRI	SAT
18					1	2	3
19	4	5	6	7	8	9	10
20	11	12	13	14	15	16	17
21	18	19	20	21	22	23	24
22	25	26	27	28	29	30	
29 May-3 June University Practical/ Project/ Seminar Examinations 31 May-6 June Uploading Internal, Mid Semester, Practical, Project & Seminar marks to University portal 5-10 June Guest Lecture/Industrial Visit/ Statutory Committee meeting 8-30 June End Semester & Supplementary Examination 21 June Yoga Day 24 June No Vehicle Day Academic Days: 26							

Every department shall conduct the following programs for the current semester

1. Career Guidance by Industry Experts & Alumni etc.
2. Seminar, Conference, Workshop, STTP
3. Remedial/ Academically Bright & weak students classes
4. Industry-Institute Interaction Activities

Madhge

EN-6545

Principal
Arvind Gavali College of Engineering & Polytechnic.

Figure 5.5.6 Academic Calendar for the Academic Year 2022 – 23 (Even Semester)

Samarth Education Trusts
Arvind Gavali College of Engineering
 At- Panmalewadi, Post-Varye, Satara.
 Academic Year 2022-23

DAY	TIME CLASS	9.30-10.30	10.30-11.30	11.30 to 12.10	12.10-1.10	1.10-2.10	2.10-3.10	3.10-3.30	3.30-4.30	4.30-5.30
MONDAY	SE (SW206)	DE (L) (HVS)	EM-III (L) (AK)	Lunch Break	EDC (T) (JDB)	EM&I(L) (KSM)	Library	Tea Break	SY-CS [WW-321]-AK	
	TE (SW208)	TY-Appitude [WW-321]-KAD			Ana.Circuit (L) (HVS)	Ana.Comm.(L) (JDB)	DSP(L) (MGS)		T1-DSP LAB T2- Analag Commn (Lab)	
	BE	ESD(L) (MDP)	WSN(L) (CSG)		MTX(L) (NSB)	DCOM(L) (KPrakash)	FM(L)(Kprakash)		B2-ESD(Lab) (MDP) B3-WSN(Lab) (CSG) B1-MTX(Lab)(NSB)	
TUESDAY	SE (SW206)	SY-APTI [WW-321]		Lunch Break	EM-III (L) (AK)	DE (L) (HVS)	EDC (T) (JDB)	Tea Break	S1,S2-DE LAB S3-EDC LAB	
	TE (SW208)	Ana.Circuit (L) (HVS)	Ana.Comm.(L) (JDB)		DSP(L) (MGS)	CSE(L) (KSM)	EFT(L) (MGS)		TY-CS [WW-321]-Gr	
	BE	ESD(L) (MDP)	WSN(L) (CSG)		MTX(L) (NSB)	DCOM(L) (KPrakash)	FM(L)(Kprakash)		B1-ESD(Lab) (MDP) B2-WSN(Lab) (CSG) B3-MTX(Lab)(NSB)	
WEDNESDAY	SE (SW206)	DE (L) (HVS)	EDC (T) (JDB)	Lunch Break	EM&I(L) (KSM)	S1,S2-EDC LAB S3-DE LAB		Tea Break	SY-C2C [WW-321]-AK	
	TE (SW208)	TY-TPO [WW-321]-CSG			Ana.Circuit (L) (HVS)	EFT(L) (MGS)	CSE(L) (KSM)		T2-DSP LAB T1- Analag Commn (Lab)	
	BE	ESD(L) (MDP)	WSN(L) (CSG)		MTX(L) (NSB)	DCOM(L) (KPrakash)	FM(L)(Kprakash)		B2-ESD(Lab) (MDP) B3-WSN(Lab) (CSG) B1-MTX(Lab)(NSB)	
THURSDAY	SE (SW206)	DE (L) (HVS)	EDC (T) (JDB)	Lunch Break	EM-III (L) (AK)	EM&I(L) (KSM)	Library	Tea Break	SEMINAR-1 (R&D)	
	TE (SW208)	Ana.Comm.(L) (JDB)	Ana.Circuit (L) (HVS)		CSE(L) (KSM)	EFT(L) (MGS)	DSP(T) (MGS)		TY-C2C [WW-321]-AK	
	BE	PROJECT Part 1 (R&D)			PROJECT Part 1 (R&D)	Library	Library		PROJECT Part 1 (R&D)	
FRIDAY	SE (SW206)	SY-TPO [WW-321]-CSG		Lunch Break	SEMINAR-1		EM-III (L) (AK)	Tea Break	EM&I(L) (KSM)	Library
	TE (SW208)	CSE(L) (KSM)	EFT(L) (MGS)		DSP(L) (MGS)	Ana.Comm.(L) (JDB)	MINI PROJECT-I		MINI PROJECT-I	
	BE	PROJECT Part 1 (R&D)			Library	Library	Library		Library	

SY B.Tech (206)	TY B.Tech(208)	Btech(207)
EM-III , Engineering Mathematics – III	EFT-Electromagnetic Field Theory, MGS-Prof.Dr.Mirajkar G.S.	Deem-Digital Communication, KP- Prof. K.Prakash
EDC- Electronic Devices & Circuits, JDB- Prof. Jagtap D.B.	DSP-Electromagnetic Field Theory, MGS-Prof.Dr.Mirajkar G.S.	Group A-Wireless Sensor Networks(WSN)
DE-Digital Electronics,HVS-Prof. Ilingmire V.S.	Ana.Com.-Analog Communication, JDB- Prof. Jagtap D.B.	Group B-Embedded System Design(ESD)
EMI-Electrical Machines and Instruments, KSM-Prof.Kandarkar S.M.	Ana.ckt.-Analog Circuits- HVS-Prof.Ilingmire V.S.	Group C- Mechatronics(MTX) NSB-Prof.Nalavade S.B.
Seminar (R&D)	CSE-Control System Engineering. – KSM-Prof.Kandarkar S.M.	Financial Management(FM) KP- K.Prakash

Figure 5.5.7 Department time table for Odd Semester (2022 – 23)

Samarth Education Trust's
Arvind Gavali College of Engineering
At- Panmalewadi, Post-Varye, Satara

Department of Electronics & Telecommunication Engg				Academic Year 2022-23		Sem Even						
DAY	TIME CLASS	9.30-10.25	10.20-11.20	11.20-12.15	12.15-01.00	1.00-1.55	1.55-2.50	2.50-3.10	3.10-4.05	4.05-5.00		
MONDAY	SE (SW206)	APTI (WW321)[KAD]		PTRP [MGS]	Lunch Break	S1-SS[MGS]		Tea Break	PP [HVS]	Library		
	TE (SW208)	T1-MP & MC[JDB]		AWP[SDS]		S2-Seminar II[CSG]			DCOM[NSB]	MP&MC[HVS]		
	BE	T3-MINI PROJ[CSG]				SPORTS (NVG)			PROJECT/INTERNSHIP			
TUESDAY	SE (SW206)	NT [JSP]	NT [JSP]	PTRP [MGS]		SS [MGS]	PP[HVS]		PROJECT/INTERNSHIP			
	TE (SW208)	C2C (WW321) [KAA]		AWP[SDS]		MP&MC[HVS]	DCOM[NSB]		CN [JDB]	MP&MC[HVS]		
	BE	PROJECT/INTERNSHIP		PROJECT/INTERNSHIP		PROJECT/INTERNSHIP			PROJECT/INTERNSHIP			
WEDNESDAY	SE (SW206)	NT [JSP]	NT [JSP]	SS [MGS]		TPO (WW321) [CSG]			PROJECT/INTERNSHIP		SEMINAR II	SEMINAR II
	TE (SW208)	T1-MINI PROJ[CSG]		AWP[SDS]		MP&MC[HVS]	CN [JDB]		DCOM[NSB]	ESD [JNR]		
	BE	T2-MP&MC[JDB]				PROJECT/INTERNSHIP			PROJECT/INTERNSHIP		PROJECT/INTERNSHIP	
THURSDAY	SE (SW206)	BHR		SS [MGS]		C2C (WW321) [KAA]			PTRP [MGS]	PP[HVS]		
	TE (SW208)	APTI (WW321)[KAD]		ESD [JNR]		T1-DCOM[NSB]			DCOM[NSB]	CN [JDB]		
	BE	PROJECT/INTERNSHIP		PROJECT/INTERNSHIP		PROJECT/INTERNSHIP			PROJECT/INTERNSHIP			
FRIDAY	SE (SW206)	S1-Seminar[CSG]		BHR	PP[HVS]	SS [MGS]	PROJECT/INTERNSHIP		SPORTS (NVG)			
	TE (SW208)	ESD [JNR]	CN [JDB]		AWP[SDS]	TPO (WW321) [CSG]		PROJECT/INTERNSHIP		MINIPROJ[CSG]		
	BE	PROJECT/INTERNSHIP			PROJECT/INTERNSHIP		PROJECT/INTERNSHIP		PROJECT/INTERNSHIP			
SY B.Tech					TY B.Tech					BE		
NT- Network Theory - Mr.Jadhav S.P[SP]					AWP- Antenna & wave Propagation- Dr. Shaide D. S[SDS]					IOT- Introduction to Internet of Things- Mr. Charan S.G [CSG]		
SS- Signals & Systems -Mrs. Mingskar G. S [MGS]					CNCC- Computer Network - Mr. Jagtap D. B [JDB]					IAC- Industrial Automation & Control- Mr. Jagtap D. B [JDB]		
PTRP- Probability Theory & Random Processes- Mrs. Mingskar G. S [MGS]					DCOM- Digital Communication - Mr. Nalawade S.B [NSB]							
PEC I - Python Programming- Mr. Hingmare V. S [HVS]					MP&MC- Microprocessor and Microcontrollers- Mr. Hingmare V. S [HVS]							
DHR- Basic Human Rights-					HSM- Employment & Skill Development- Dr. Jadhav N. R.							
SEMINAR B- Mr. Charan S.G [CSG]					MP&MC- Microprocessor and Microcontrollers Lab- Mr. Jagtap D.B							
NT LAB- Network Theory lab - Mr. Kadam V.JKVJ]					DCOM Lab- Digital Communication - Mr. Nalawade S.B [NSB]							
SS LAB- Signals & Systems - Mr. Nalawade S.R[NSB]					Mini Project- Mr. Charan S.G [CSG]							

Figure 5.5.8 Department time table for Even Semester (2022 – 23)

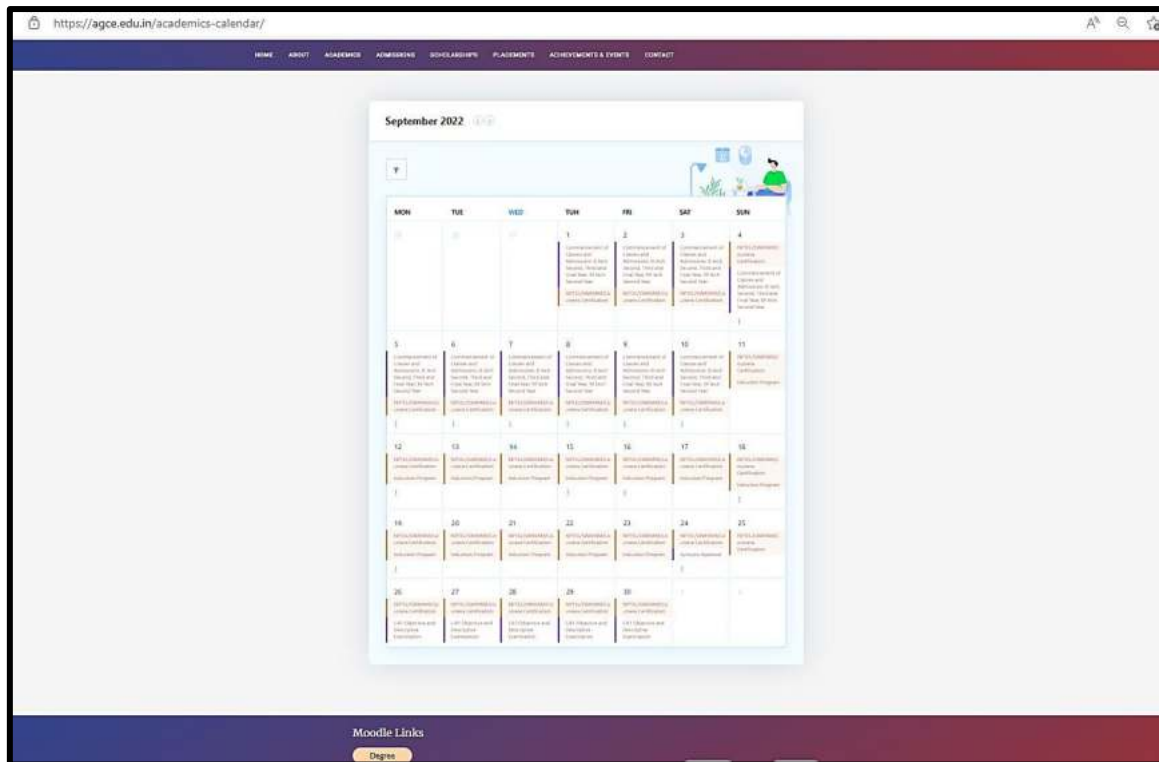


Figure 5.5.9 Academic calendar (2022 – 23) displayed on the college website

The timetable for the weekly lectures and practicals is made available to the students well in advance and displayed on the department notice boards. The course syllabus is displayed and made available to the students via 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 to the subject experts during the Faculty Induction Programme 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.

AGCE Satara		Teaching/Lesson Plan			Format No.:	
Academic Year: 2022-23		Class: T.E.	Term :II	Branch: ENTC	Page No.:	
Faculty: Ms.Nalawade S.B				Lecture/week: 4Hours		
Subject: Digital Communication						
Lect No. (1)	Unit No. (2)	Planned Date (3)	Planned Topic/Syllabus (4)	Actual Conduction Date (5)	Sign of Subject In-Charge (6)	Remarks and Sign of H.O.D & Dean (Academics) (7)
1	1	11/2/23	Block diagram and transformations , digital versus analog performance criteria	29/2/23	<i>S.Nalawade</i>	<i>Page 1</i>
2		2/2/23	Sampling process . PCM Generation and reconstruction	11/3/23	<i>S.Nalawade</i>	<i>Page 1</i>
3		6/2/23	Quantization noise ,non uniform quantization and companding	2/3/23	<i>S.Nalawade</i>	<i>Page 1</i>
4		7/2/23	PCM with noise : Decoding noise ,Error threshold	6/3/23	<i>S.Nalawade</i>	<i>Page 1</i>
5		8/2/23	Delta modulation ,Adaptive delta modulation	8/3/23	<i>S.Nalawade</i>	<i>Page 1</i>
6		9/2/23	Delta sigma modulation,	15/3/23	<i>S.Nalawade</i>	<i>Page 1</i>
7		13/2/23	Differential pulse code modulation, LPC Speechsynthesis	16/3/23	<i>S.Nalawade</i>	<i>Page 1</i>
8	2	14/2/23	Digital multiplexing: Multiplexers and hierarchies.	15/3/23	<i>S.Nalawade</i>	<i>Page 1</i>
9		15/2/23	Data multiplexer , data formats and their spectra	20/3/23	<i>S.Nalawade</i>	<i>Page 1</i>
10		16/2/23	Synchronization: bit synchronization	24/3/23	<i>S.Nalawade</i>	<i>Page 1</i>
11		20/2/23	Scramblers	23/3/23	<i>S.Nalawade</i>	<i>Page 1</i>
12		21/2/23	Frame synchroniztion	27/3/23	<i>S.Nalawade</i>	<i>Page 1</i>
13		22/2/23	Inter- symbol interface	28/3/23	<i>S.Nalawade</i>	<i>Page 1</i>

Figure 5.5.10 Teaching Plan for the Subject Digital Communication Page 1

14		23/01/23	Equalization	29/3/23	Srinivasade	Poojap
15	3	27/2/23	Introduction . Mathematical definition of a random process	3/4/23	Srinivasade	Poojap
16		28/2/23	Stationary processes, mean correlation & covariance function	4/4/23	Srinivasade	Poojap
17		11/3/23	Ergodic processes	10/4/23	Srinivasade	Poojap
18		2/3/23	Transmission of a random process through a LTI filter . Power spectral density	13/4/23	Srinivasade	Poojap
19		6/3/23	Gaussian process, noise	17/4/23	Srinivasade	Poojap
20		8/3/23	Narrow band noise	18/4/23	Srinivasade	Poojap
21		9/3/23	Representation of narrow band noise in terms of in phase & quadrature components	19/4/23	Srinivasade	Poojap
22	4	13/3/23	Detection theory: MAP, LRT, Minimum error test, error probability	30/4/23	Srinivasade	Poojap
23		14/3/23	Signal space representation geometric representation of signal	10/5/23	Srinivasade	Poojap
24		15/3/23	Conversion of continuous AWGN channel to vector channel	11/5/23	Srinivasade	Poojap
25		16/3/23	Likelihood functions, coherent detection of binary signals in presence of noise	15/5/23	Srinivasade	Poojap
26		20/3/23	Optimum filter , matched filter	16/5/23	Srinivasade	Poojap
27		21/3/23	Probability of error of matched filter	16/5/23	Srinivasade	Poojap
28		23/3/23	Correlation receiver	17/5/23	Srinivasade	Poojap
29	5	27/3/23	Pass band transmission model, signal space diagram generation and detection	20/4/23	Srinivasade	Poojap
30		29/3/23	Error probability derivation and power spectra of coherent BPSK , BFSK And QPSK	24/4/23	Srinivasade	Poojap

Figure 5.5.11 Teaching Plan for the Subject Digital Communication Page 2

31	09/13/23	Geometric representation & detection of M-ary PSK, M-ary QAM and their error probability, generation and detection of minimum shift keying, gaussian MSK, Non-coherent BFSK, DPSK and DE PSK	25/4/23	Srinivasa	Prajay
32	31/4/23	Introduction to OFDM, pseudo noise sequences, A notion of Spread spectrum, direct sequence spread spectrum with coherent BPSK	26/4/23	Srinivasa	Prajay
33	4/3/23	Signal space dimensionality & processing gain, probability of error, concept of jamming	27/4/23	Srinivasa	Prajay
34	5/3/23	Frequency hop spread spectrum, wireless telephone system,	21/5/23	Srinivasa	PJP
35	6/3/23	Personal communication system.	31/5/23	Srinivasa	PJP

Column no.1-4 should be printed by individual staff and authenticated by HOD Column no.5 should be entered by individual by pen.
Column no 7: Every fortnight faculty member has to take the signature of HOD & Dean Academics Keep all this documents in Subject/Course File

Srinivasa
A.M.C.

Prajay
HOD
Head E & TC Engg. Department
ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA
Panmalewadi (Varve)

Figure 5.5.12 Teaching Plan for the Subject Digital Communication Page 3

▪ **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 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.



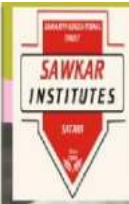
(a)




(b)


Figure 5.5.13 (a) and (b) Five Days Hands-on Workshop on Introduction to Python, AI, and ML


SAMARTH EDUCATIONAL TRUST'S
ARVIND GAVALI COLLEGE OF ENGINEERING,
SATARA
DEPARTMENT OF CORE SCIENCE AND
ENGINEERING




Workshop on “Industry Oriented Skills for Aspiring Engineers”









Themes

- ❖ C, C++ (Turbo C) and HTML
- ❖ Python
- ❖ Automation in Advanced Java
- ❖ Automation in IOT
- ❖ AutoCAD and Sketch Up
- ❖ PCB Design and Manufacturing

Resource Persons


- Mrs. Pranali Nalawade, Squirrel's Infotech, Satara
- Pravin Mohite, Aprtron Tech, Satara
- Mahesh Sathe, Design Solution, Karad
- Swapnil Mapari, Disha Computers, Satara
- Mr. Tushar Inamdar, Squarewave Automations Pvt Ltd. Satara

Event Guest

Dr. Vilas Pharande
(Principal)
Dr. N. Shaikh
(HOD)

Organizing Committee

Mrs. A. D. Kasture
(Event Head)
Dr. Madhuri More
(Event Coordinator)



Sawkar Institutes, 427, Shanivar Peth, Behind Sawkar Transport, Satara





 9957100100
  9069700100
   /agcesatara6545
 <https://agce.edu.in>

Figure 5.5.14 Two Weeks Workshop on “Industry Oriented Skills for Aspiring Engineers”

SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA
 NAAC Accredited

National Level Event
Yugam
 06 to 11 April 2020

Registration Charges Rs.300/-

Internet of Things
Date: 06 & 07 April 2020
 Sanket Jambure(FE-CSE) Mob.: 7057256754
 Vipul Sapte (SE-E&TC) Mob.: 7249221353
 Tushar Bandal(TE-E&TC) Mob.: 7304421198
 Jyoti Mane (B.E.CSE) Mob.: 9175032632
 Prof. Vijay Barkade Mob.: 7276774615

AI-Thinker Node MCU
Date: 06 & 07 April 2020
 Ayaz Shode (FE-E&TC) Mob.: 9881791410
 Prachi Sabale (BE-CSE) Mob.: 7823857376
 Tejaswini Gahmed (TE-CSE) Mob.: 8703699043
 Chinaj Shinde (B.E.E&TC) Mob.: 9036101771
 Prof. Samina Mulla Mob.: 9875889905

SAE SUPRA/BAJA
Date: 09 & 10 April 2020
 Rishi Shikhar (FY-Mech) Mob.: 8798811239
 Rishi Padi (FY CSE) Mob.: 8378842478
 Sahil Nadekar (SY-Mech) Mob.: 8847247584
 Venk Sagar (TY-Mech) Mob.: 7938572657
 Parthaj Sankhne (BE Mech) Mob.: 9805888862
 Prof. Pradip Waghmode Mob.: 7020704516

UG NX Software
Date: 06 & 07 April 2020
 Akil Barge (FY-Mech) Mob.: 868291007
 Anshwara Salunkhe (SY-Mech) Mob.: 7887353888
 Sharad Awale (TY-Mech) Mob.: 8198532865
 Pravin Ghadage (BE Mech) Mob.: 7385181911
 Prof. Anjan Kadam Mob.: 9738177047

Lean Six Sigma
Date: 09 & 10 April 2020
 Vikram Marathe (FY-Mech) Mob.: 7365814759
 Rushabh Jagtap (SY-Mech) Mob.: 9870070208
 Shubham Jadhav (TY-Mech) Mob.: 9762567923
 Tushar Ghansal (BE Mech) Mob.: 7219161369
 Prof. Mahesh Kulkar Mob.: 9807913226

Revit
Date: 09 & 10 April 2020
 Prashant Padi (FY-Civil) Mob.: 9545709472
 Akshata Kharade (SY-Civil) Mob.: 7057091183
 Suchika Padi (TY-Civil) Mob.: 9623766813
 Taji Shinde (B.E.Civil) Mob.: 7798653408
 Prof. Rupaj Jadhav Mob.: 982765127

Total Station
Date: 06 & 07 April 2020
 Aniket Bejar (FY-Civil) Mob.: 9078890055
 Akanksha Badar (SY-Civil) Mob.: 5038427452
 Tanuj Jadhav (TY-Civil) Mob.: 9893989386
 Abhinav Nikam (B.E.Civil) Mob.: 9573853057
 Prof. Vilas Nikam Mob.: 8808568334

3D Printing
Date: 06 & 07 April 2020
 Dhayyashri Yadav (FY-Mech) Mob.: 9112188035
 Utkarsh Pustake (SY-Mech) Mob.: 9730423431
 Adityash Pawar (TY-Mech) Mob.: 7744058652
 Akshay Sane (SE Mech) Mob.: 8760881773
 Prof. Pramod Nikam Mob.: 8800004295

Web Design
Date: 09 & 10 April 2020
 Utkarsha Bagal (FY-CSE) Mob.: 7972928118
 Kavita Shinde (SY-CSE) Mob.: 9130784004
 Harshada Mamo (TY-CSE) Mob.: 5284462991
 Shivani Jadhav (BE CSE) Mob.: 9139495267
 Prof. Vivek Mohite Mob.: 5037388689

CNC Programming
Date: 06 & 07 April 2020
 Karan Jadhav (FY-Mech) Mob.: 7709570792
 Harshada Ghopade (SY-Mech) Mob.: 8145212414
 Diganbar Harane (TY-Mech) Mob.: 8657026900
 Shivani Kokade (BE Mech) Mob.: 7888128726
 Prof. Anku Karde Mob.: 9007463028

PCB Design
Date: 09 & 10 April 2020
 Sakshi Mohite (FY-Elect) Mob.: 8805411975
 Apshara Rao (SY-Elect) Mob.: 7218232323
 Prashant Padi (TY-Elect) Mob.: 8600089389
 Radhika Kadam (BE Elect) Mob.: 7798898823
 Prof. Evin Gupta Mob.: 7487051183

INTERNATIONAL CONFERENCE ON INNOVATIONS AND RECENT TRENDS IN ENGINEERING AND SCIENCE
 11 April 2020

Project Exhibition
 08 April 2020

Alumni Meet
 08 April 2020

HR Meet
 08 April 2020

Hon. Mr. Arvind Gavali | Hon. Mr. Nishant Gavali | Dr. Vilas Pharande
 Chairman | Secretary | (Principal)

Website: www.agce.sets.edu.in

Figure 5.5.15 Pamphlet of YUGAM 2020

Internet of Things

Date: 06 & 07 April 2020

Sanket Jambure(FE-CSE) Mob.: 7057256754
 Vipul Sapte (SE-E&TC) Mob.: 7249221353
 Tushar Bandal(TE-E&TC) Mob.: 7304421198
 Jyoti Mane (B.E.CSE) Mob.: 9175032632

Prof. Vijay Barkade Mob.: 7276774615

Figure 5.5.16 YUGAM 2020 IoT

- Open Book Tests:

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



Figure 5.5.17 Open Book Test for SY (E&TC)

- **Use of Interactive Panels (ICT):**

The faculty members of the department are encouraged to conduct lectures using interactive panels and LCD projectors. This enables a more vivid representation of the concept by the incorporation of videos to simplify the concepts. The use of ICT is encouraged in the department and the minimum utilization is to be up to 1 lecture out of 30 lectures.



Figure 5.5.18 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 5.5.19 Industrial Visit to Intlex Electronic Pvt. Ltd., Pune



(a)



(b)



(c)

Figure 5.5.20 (a), (b), and (c) Industrial visit to Institute of Satellite Telecom Pvt. Ltd., Kharadi conducted by the E&TC department

- **Quiz**

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

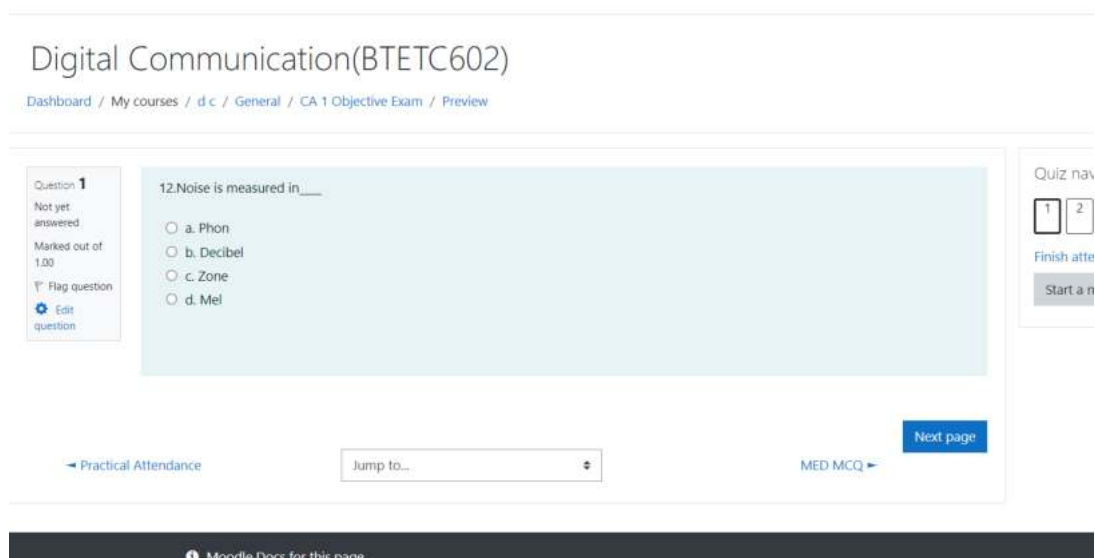


Figure 5.5.21 Screenshot of Objective Quiz Question for the subject Digital Communication

▪ **NPTEL Courses:**

The students are encouraged to enrol 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 (E&TC) for 2022 – 23

Sr. No.	Timeline	Year	Courses Chosen by the Students
1	2022 – 2023 Odd Semester	TY B.Tech (E&TC)	1. Introduction to Internet of Things
2	2022 – 2023 Odd Semester	Final Year B.Tech (E&TC)	1. Introduction to Semiconductor Devices 2. Semiconductor Devices and Circuits
3	2022 – 2023 Even Semester	TY B.Tech (E&TC)	1. AI Constraint Satisfaction 2. An Introduction to Artificial Intelligence

4	2022 – 2023 Even Semester	Final Year B.Tech (E&TC)	<ol style="list-style-type: none"> 1. Advanced Computer Architecture 2. AI Constraint Satisfaction 3. An Introduction to Artificial Intelligence 4. Basic Course in Ornithology 5. Bio Electrochemistry 6. Cloud Computing and Distributed Systems 7. Communication Networks 8. Computer Vision and Image Processing Fundamentals and Applications 9. Enhancing Soft Skills and Personality 10. Ethical Hacking 11. Introduction to Programming in C 12. Leadership and Team Effectiveness 13. Softskill Development
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Table 2. NPTEL Courses Chosen by Students of TY B.Tech and Final Year B.Tech (E&TC) for 2021 – 22

Sr. No.	Timeline	Year	Courses Chosen by the Students
1	2021 – 2022 Odd Semester	TY B.Tech (E&TC)	<ol style="list-style-type: none"> 1. Accreditation and Outcome Based Learning 2. Advanced Engineering Mathematics 3. Artificial Intelligence : Search Methods for Problem Solving 4. Basics of software defined Radios and Practical Applications 5. Introduction to Fuzzy Set Theory, Arithmetic and Logic
2	2021 – 2022 Odd Semester	Final Year B.Tech (E&TC)	<ol style="list-style-type: none"> 1. Analog Electronic Circuits 2. Artificial Intelligence : Search Methods for Problem Solving 3. C Programming and Assembly Language 4. Computer architecture and organization 5. Introduction to Fuzzy Set Theory, Arithmetic and Logic 6. Soft skills
3	2021 – 2022 Even Semester	TY B.Tech (E&TC)	<ol style="list-style-type: none"> 1. AI:Constraint Satisfaction 2. An Introduction to Artificial Intelligence
4	2021 – 2022 Even Semester	Final Year B.Tech (E&TC)	<ol style="list-style-type: none"> 1. Advanced Computer Architecture 2. AI:Constraint Satisfaction 3. An Introduction to Artificial Intelligence 4. Basic Course in Ornithology 5. Bioelectrochemistry 6. Cloud Computing and Distributed Systems 7. Communication Networks 8. Computer Vision and Image Processing Fundamentals and Applications 9. Enhancing Soft Skills and Personality 10. Ethical Hacking 11. Introduction To Programming In C

			12. Leadership and Team Effectiveness 13. Soft Skill Development
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Table 3. NPTEL Courses Chosen by Students of TY B.Tech and Final Year B.Tech (E&TC) for 2020 – 21

Sr. No.	Timeline	Year	Courses Chosen by the Students
1	2020 – 2021 Odd Semester	TY B.Tech (E&TC)	1. Cloud computing 2. Control systems 3. Introduction to Embedded System Design
2	2020 – 2021 Odd Semester	Final Year B.Tech (E&TC)	1. Cloud computing 2. Control systems 3. Digital Circuits 4. Introduction to Embedded System Design
3	2020 – 2021 Even Semester	TY B.Tech (E&TC)	1. A brief course on Superconductivity 2. A Brief Introduction of Micro – Sensors 3. An Introduction to Artificial Intelligence 4. Analog IC Design 5. Antennas 6. Biomedical Signal Processing 7. Computer Vision and Image Processing - Fundamentals and Applications 8. Cryptography and Network Security 9. Digital IC Design 10. Fundamental of Power Electronics 11. Industrial Automation and Control 12. Introduction to Industry 4.0 and Industrial Internet of Things 13. Introduction to Internet of Things 14. Numerical Methods: Finite difference approach 15. The Joy of Computing using Python
4	2020 – 2021 Even Semester	Final Year B.Tech (E&TC)	1. A Brief Introduction of Micro – Sensors 2. Advanced Computer Architecture 3. An Introduction to Information Theory 4. An Introduction to Programming through C++ 5. Analog Circuits 6. Artificial Intelligence: Knowledge Representation and Reasoning 7. Basic Electronics 8. Biomedical Signal Processing 9. CMOS Digital VLSI Design 10. Computer Vision and Image Processing - Fundamentals and Applications 11. Cryptography and Network Security 12. Current regulatory requirements for

			<p>conducting clinical trials in India for investigational new drugs/new drug (Version 3.0)</p> <ol style="list-style-type: none"> 13. Data Science for Engineers 14. Digital Electronic Circuits 15. Digital IC Design 16. Enhancing Soft Skills and Personality 17. Fundamental of Power Electronics 18. Industrial Automation and Control 19. Introduction to Embedded System Design 20. Introduction to Industry 4.0 and Industrial Internet of Things 21. Introduction to Internet of Things 22. Numerical Methods: Finite difference approach 23. Sensors and Actuators 24. VLSI Physical Design
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Table 4. NPTEL Courses Chosen by Students of TY B.Tech and Final Year B.Tech (E&TC) for 2019 – 20

Sr. No.	Timeline	Year	Courses Chosen by the Students
1	2019 – 2020	TY B.Tech (E&TC)	<ol style="list-style-type: none"> 1. Python for Data Science 2. Antennas 3. Introduction to Internet of Things 4. Principles of Communication Systems – I 5. Cloud Computing 6. Advance Power Electronics and Control 7. Understanding Design Thinking & People Centred Design 8. German – I 9. Programming, Data Structures and Algorithms Using Python 10. Microprocessors and Interfacing 11. Data Analytics Using Python
2	2019 – 2020	Final Year B.Tech (E&TC)	<ol style="list-style-type: none"> 1. Python for Data Science 2. Antennas 3. Speaking Effectively 4. Introduction to Internet of Things 5. Introduction to Industry 4.0 and Industrial Internet of Things 6. The Joy of Computing Using Python 7. An Introduction to Artificial Intelligence 8. Google Cloud Computing Foundation Course 9. Principles of Communication Systems – I 10. Digital Electronic Circuits
3	2019 – 2020	TY B.Tech (E&TC)	<ol style="list-style-type: none"> 1. Analog Communication 2. Digital Signal Processing 3. Introduction to Wireless and Cellular Communications 4. Programming, Data Structures and

			<p>Algorithms Using Python</p> <ol style="list-style-type: none"> 5. Introduction to Internet of Things 6. Power Electronics 7. Analog Electronic Circuit 8. Linear System Theory 9. Digital Circuits 10. Op-Amp Practical Applications: Design, Simulation and Implementation 11. Python for Data Science 12. Database Management System 13. Programming in C++ 14. Control Engineering
4	2019 – 2020	Final Year B.Tech (E&TC)	<ol style="list-style-type: none"> 1. Python for Data Science



Figure 5.5.22 Certificate of Appreciation to Ms. Samina Y. Mulla for her role as SPOC for the SWAYAM-NPTEL Chapter



Figure 5.5.23 Student NPTEL Certification for the Course Introduction to Internet of Things

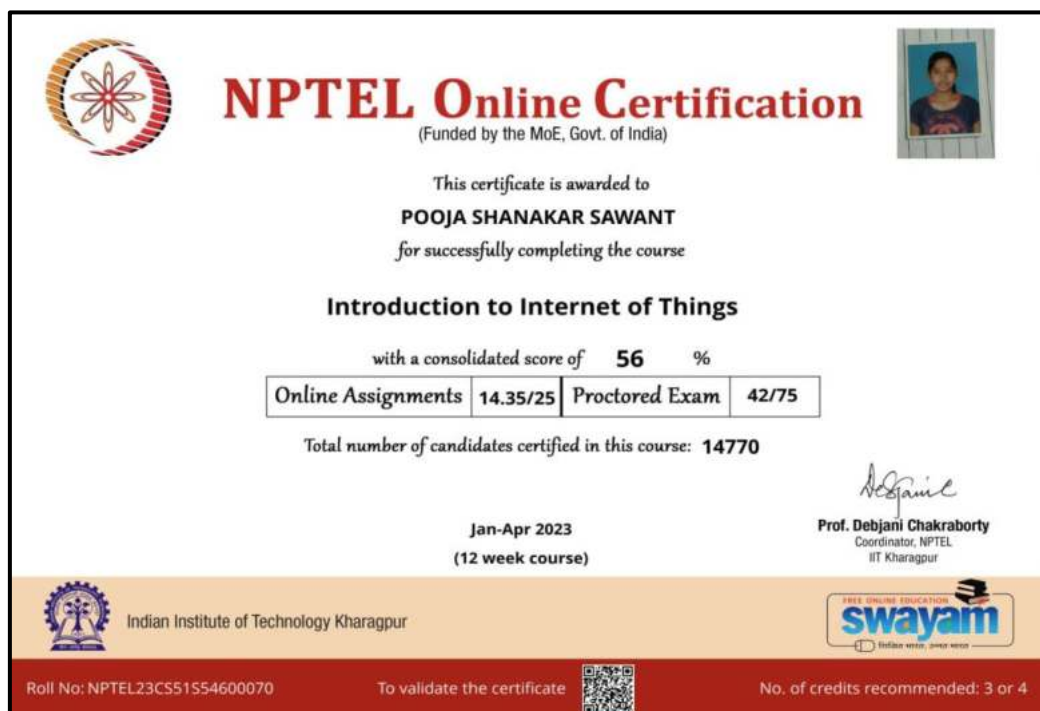


Figure 5.5.24 Student NPTEL Certification for the Course Introduction to Internet of Things



Figure 5.5.25 Student NPTEL Certification for the Course Introduction to Internet of Things

Table 5. Faculty Members of the Department Qualifying the NPTEL Courses

Sr. No.	Name of the Faculty Member	Certification	Course	Academic Year
1	Vijay Tukaram Barkade	NPTEL	Introduction to Internet of Things	2019 – 2020
2	Vijay Tukaram Barkade	Coursera	Introduction and Programming with IoT Boards	2020 – 2021
3	Santosh Gulabrao Chavan	IIT Roorkee in association with CloudxLab	Python for Machine Learning	2020 – 2021
4	Santosh Gulabrao Chavan	Mathworks	MATLAB Onramp	2019 - 2020

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

Reference books, notes, PowerPoint 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.

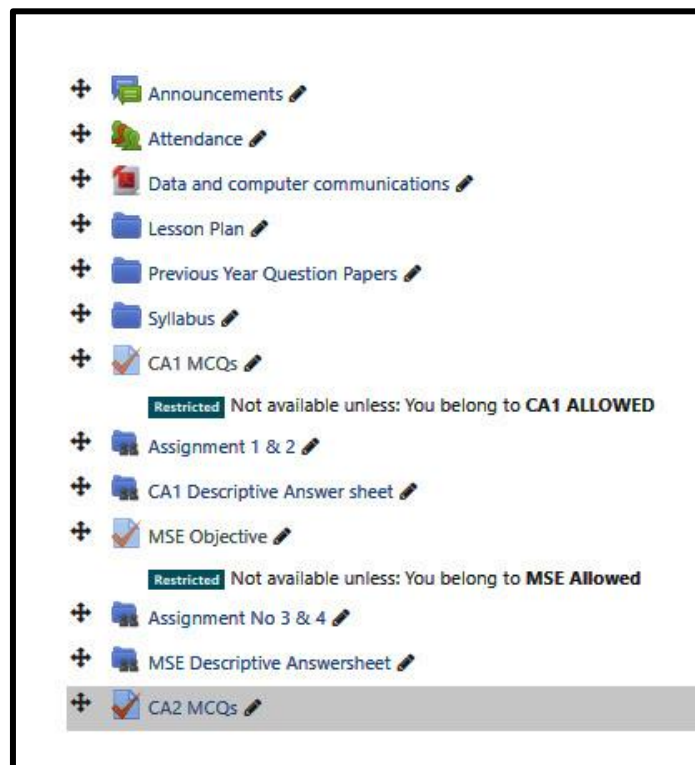


Figure 5.5.26 Screenshot of MOODLE containing course material

- **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 in the student WhatsApp groups.



Figure 5.5.27 Screenshot (Computer screen) of list of experiments on MOODLE

- **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 member is supposed to upload attendance before the next lecture.

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 counselling the students who have poor attendance, collecting the feedback regarding the difficult subject, etc.



Figure 5.5.28 Faculty conducting GFM Meeting with students



Figure 5.5.29 Faculty 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 term work calculations.

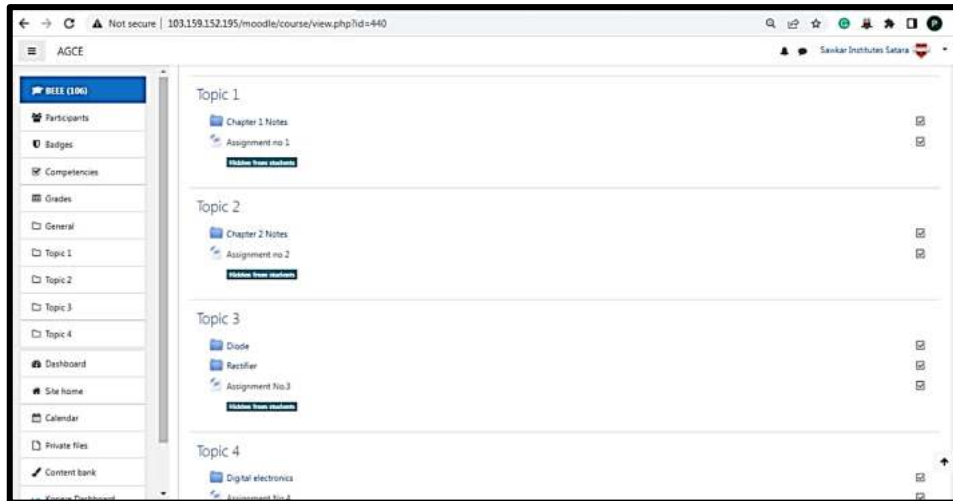


Figure 5.5.30 Screenshot of Assignment folders on Moodle

Continuous Assessment Report:

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

SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING **AGCE**
 Pareekwadi, Verna, Tal & Dist. - Satara - 415 016
 Approved by AICTE, New Delhi, Recognised by Govt. of Maharashtra &
 Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere.

Continuous Assessment Sheet (CAS)

Name of Candidate: Pooja Abhoda P. Class & Department: TY B.Tech (ECE)
 Roll No.: 216545137005 Subject: Digital communication.

Exp No.	Exp Name	Date of Conduction	Laboratory Assessment				Faculty Sign with Date			
			Timely submission (02)	Neatness (04)	Understanding (04)	Total (10)				
1	Study of PCM	1/3/22	2	4	3	9	SPK			
2	Study of Natural sampling and flat-top sampling.	15/3/22	2	4	3	9	SPK			
3	Study of DPCM	29/3/22	2	4	3	9	SPK			
4	line coding & decoding technique.	12/4/22	2	4	4	10	SPK			
5	Study of TDM.	15/4/22	2	3	3	8	SPK			
CA1			Average marks of laboratory experiment (10)							
6	Study of FDM	26/4/22	2	4	3	9	SPK			
7	Study of ASK	3/5/22	2	4	3	9	SPK			
8	Study of PSK	10/5/22	2	4	3	9	SPK			
9	Study of BPSK on MINIB	17/5/22	2	4	3	9	SPK			
10	To study Quadrature Amplitude modulation.	24/5/22	2	3	3	8	SPK			
CA2			Average marks of laboratory experiment (10)							
	Laboratory Assessment (05)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)	Laboratory Assessment (10)	Attendance (05)	Practical Exam (10)	Mock Oral (05)	Total (30)
CA1	9	4	9	4	26	9	4	9	4	26
CA2	9	4	9	4	26	9	4	9	4	26

Jasat Student Sign. Sybilanath Faculty Sign.

Figure 5.5.31 Photograph of CAS Sheet for Digital Communication

- **Virtual Labs:**

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

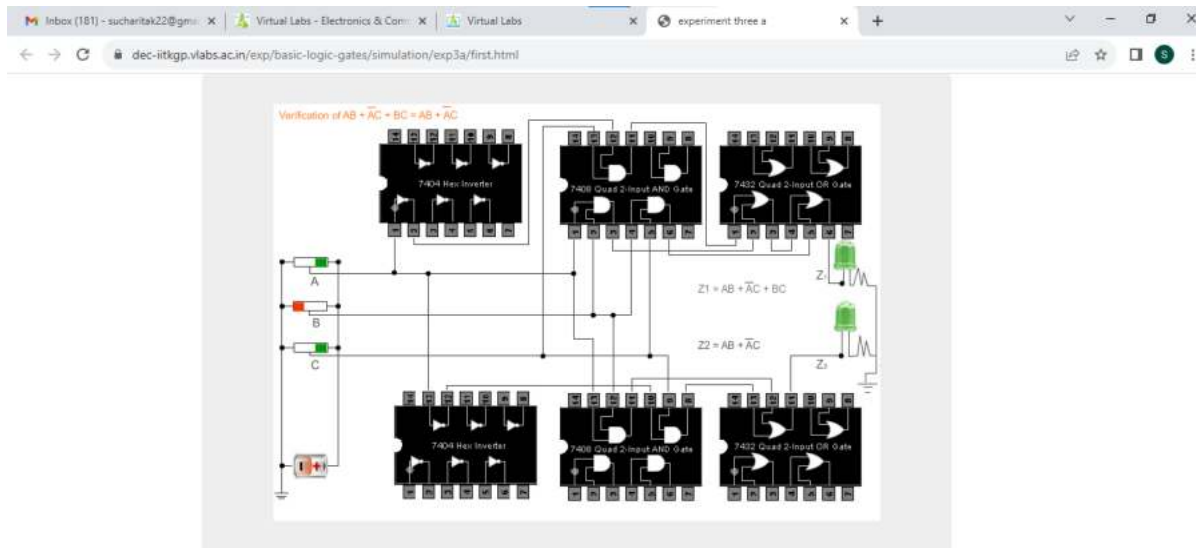
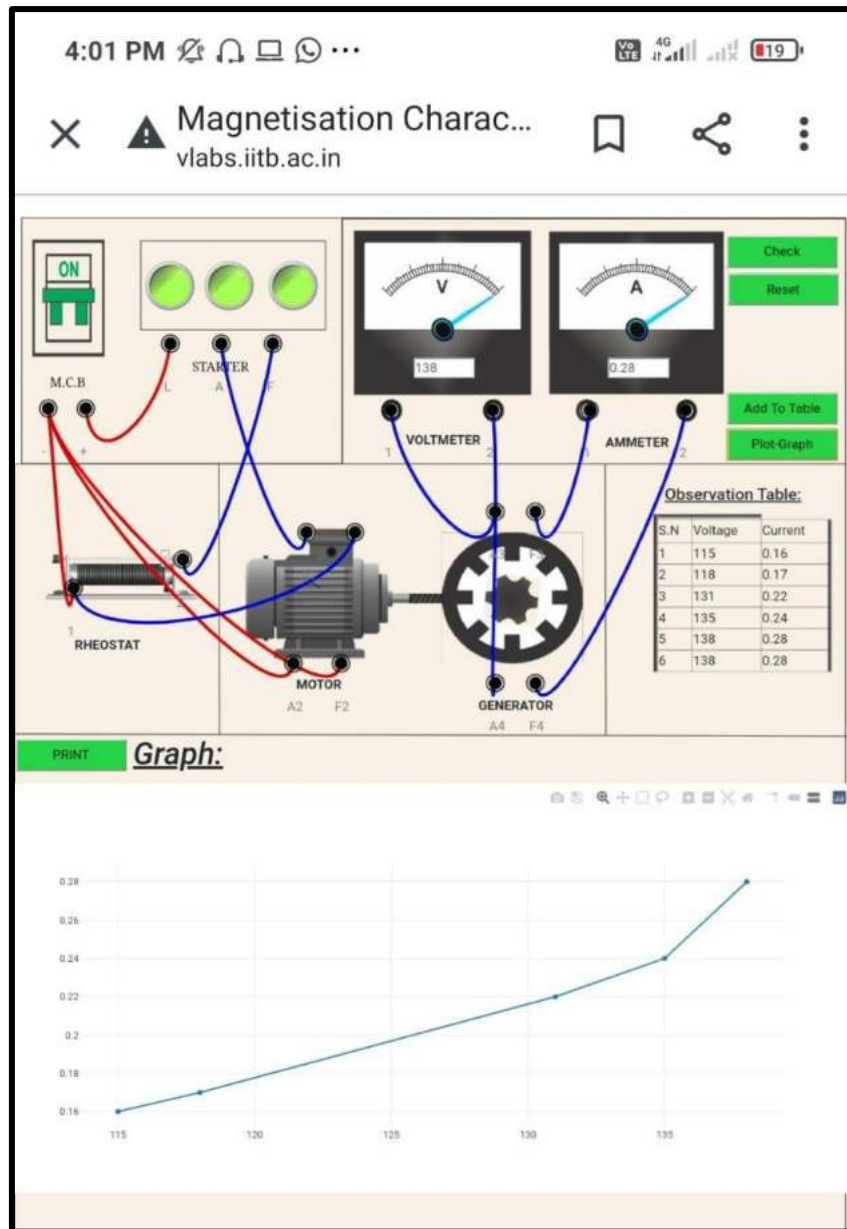
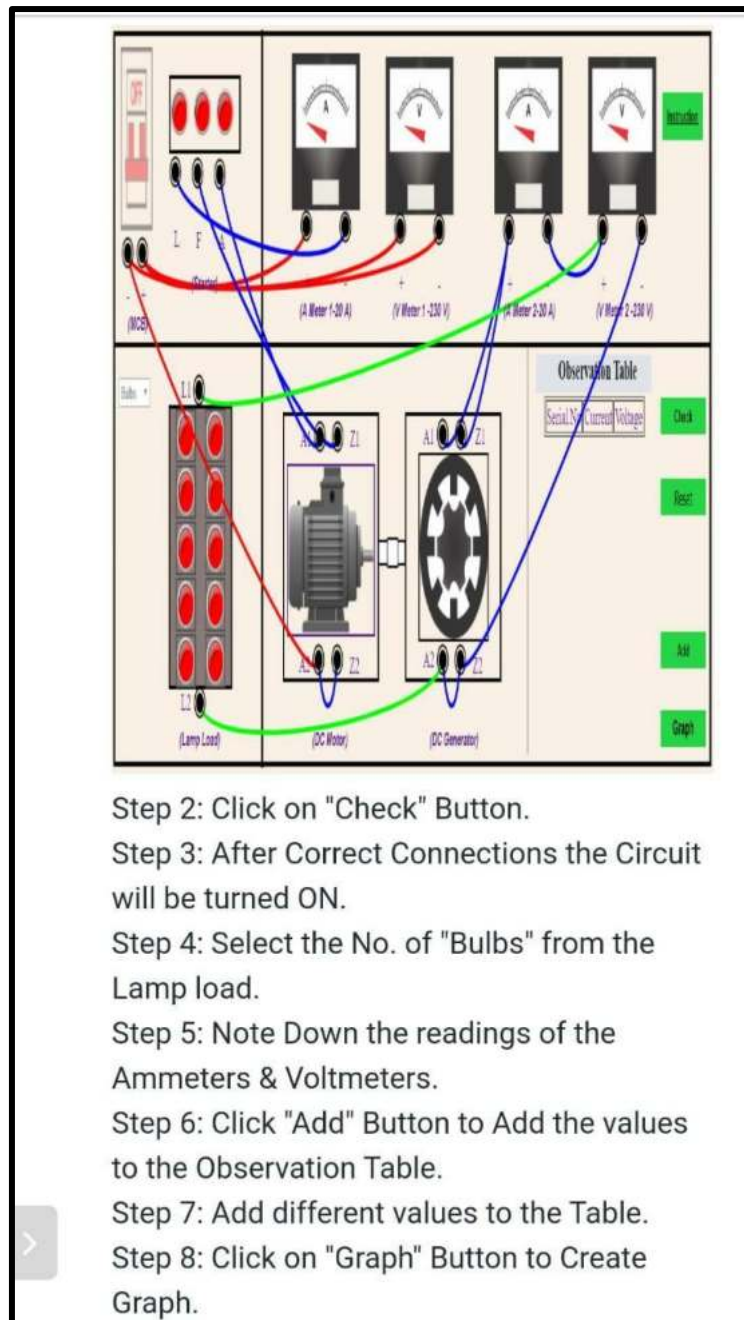


Figure 5.5.32 Screenshots of Experiment for the Digital Electronics Lab Conducted Using the Virtual Labs Platform



(a)



(b)

Figure 5.5.33 (a) and (b) Screenshots of Experiment for Basic Electrical Engineering Conducted Using the Virtual Labs Platform

Project-based and Self-learning:

Students are encouraged to group in various domains such as IoT, Embedded Systems, Signal Processing, AI, 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.

The lists of the Final Year Projects and the innovative projects of TY B.Tech (E&TC) for the assessment years, 2022-23, 2021-22, 2020-21 are as given below:

Samarth Educational Trust
Arvind Gavali College of Engineering
Final year Project Distribution (2022 - 23)
Electronics and Telecommunication Engineering

Sr. No.	Group No.	PRN No.	Domain	Name	Title of the Project	Guide
Final Year Project Group 2022-23.xlsx						
1	1	2.06545E+12	Machine Learning	Channe Pratiksha Satish	Voice Based Medical Assistant Chatbot	Dr. Mirajkar G.S.
2		2.06545E+12		Mandhare Akshata Sachin		
3		2.06545E+12		Shinde Monika Ankush		
4		2.06545E+12		Kadam Omkar Nilesh		
5	2	2.06545E+12	Image Processing	Kadam Rutuja Umesh	Gesture Recognition based Virtual Mouse & Keyboard	Dr. Mirajkar G.S.
6		2.06545E+12		Kadam Rushikesh Sanjay		
7		2.06545E+12		Pawar Saniket Kushaba		
8		2.06545E+12		Phalke Vaishnavi Shankar		
9	3	2.06545E+12	IoT	Sawant Pooja Shankar	Environmental Quality Index Mapping	Dr. Mirajkar G.S.
10		2.06545E+12		Pawar Akanksha Satish		
11		2.06545E+12		Bendgar Tejasvi Shivaji Rohitkumar Verma		
12	4	2.06545E+12	Web development	Waskar Abhijeet Kisan	Smart Agricultural System	Mr. Chavan S.G.
13		2.06545E+12		Deshmukh Priya Satish		
14		2.06545E+12		Dangare Pratik Krushna		
15	5	2.06545E+12	IoT	Kadam Durga Subhash	IoT Based Lift Management System	Mr. Jagtap D.B.
16		2.06545E+12		Chavan Amruta Sambhajji		
17		2.06545E+12		Patil Sandhya Ashok		
18		2.06545E+12		Deshpande Namrata Nandkumar		
19	6	2.06545E+12	Machine learning	Kate shweta Milan	Drowsiness detection system	Mr. Hingmire V.S.
20		2.06545E+12		Jadhav Shrikant Sanjay		
21				Nimbalkar snehal Anandrao		
22	7	2.06545E+12	IoT	Shivathare Namita Rajaram	Automatic Dam Irrigation System using Arduino	Mr. Jagtap D.B.
23		2.06545E+12		Yadav Priya Lahu		
24		2.06545E+12		Sabale Payal Bhikaji		
25		2.06545E+12		Pharande Mukta Sunil		
26	8		Robotics	Inamdar Tushar Jayant	Military field Spying Robot	Mr. Chavan S.G.
27		2.06545E+12		Yadav Akshaya Pramod		
28		2.06545E+12		Ghadage Nikesh Surash		
29		2.06545E+12		Pechhule Shashank Vijaykumar		
30	9	2.06545E+12	Embedded system	Deshmukh Rupali Santosh	Detection of Melanoma using deep Learning Techniques	Mr. Hingmire V.S.
31		2.06545E+12		Jagtap Anisha		
32		2.06545E+12		Mahamulkar Pooja		
33	10	2.06545E+12	Robotics	Kadam Omkar Dnyaneshwar	Internet controlled robot	Mrs. Nalawade S.B.
34		2.06545E+12		Jadhav Anil Shivaji		
35				Dharygave Rushali Nana		
36	11	2.06545E+12	IoT	SHINDE SHIVAM SUNIL	IoT based Electricity Theft detection System	Dr. Shinde D.S.
37		2.06545E+12		MAHAMULKAR HARSHADA KISHOR		
38		2.06545E+12		DAGADE KSHITIJA SUNIL		
39		2.06545E+12		NIKAM SANKET RAVSAHEB		
40	12	1.96545E+12	Automation	KENJALE GAURI ANANDRAO	Accelerometer Based Hand Gesture Controlled Robo-Car	Mrs. Pol B.P.
41		1.96545E+12		CHAVAN RUTIKA PURUSHOTTAM		
42		1.96545E+12		BHOITE ARYAN RAJENDRA BHAPKAR ROHIT SUNIL		
43	13	2.06545E+12	Image Processing	Karanjkar Riddhi	Sign Language for deaf and muta people	Dr. Shinde D.S.
44		2.06545E+12		Pawar Pooja Uttam		
45		2.06545E+12		Akanksha Nanaware		
46		2.06545E+12		Ithape Sanjvani		

Figure 5.5.34 Final Year Project List for the Academic Year 2022 - 23

Samarth Educational Trust						
Arvind Gavali College of Engineering						
Electronics and Telecommunication Engineering 2021-2022						
Final Year Project Submission Details						
Academic Year 2021 - 2022						
Sr. No.	Group No.	Domain	Name	Title of the Project	Name of the Guide	Sponsors
1	1	IoT	Fariyad Shaikh	IoT Based Smart Bike Helmet	Prof. Chavan S. G.	Sai Electronics, MIDC Satara
2			Muskan Sayyad			
3			Anjali Sanas			
4			Sanchita Kadam			
5	2	IoT	Mahesh Chavan	Bridge Collapse and Crack Detection Using Arduino IoT	Prof. Chavan S. G.	Innovative Construction, Satara
6			Pooja Sawant			
7			Arati Pawar			
8			Suvarna Hawale			
9	3	IoT	Shrihari Kadam	Design and Development of prototype for plastic waste management using IoT application.	Prof. Hingmire V. S.	Gajanan Packwell Pvt. Ltd. MIDC, Satara
10			Vipul Saptic			
11			Pooja Bhosale			
12			Shreyash More			
13	4	IoT	Misba Khan	IoT Color Based Product Sorting Machine	Dr. Mirajkar G. S.	
14			Omkar Kadam			
15			Ghanshyam Jadhav			
16			Omkar Mahadik			
17	5	IoT	Dhanashree Kumbhar	Crop Protection System From Animal Using PIC	Prof. Jagtap D. B.	Phoenix Agro Solar Ltd. Satara
18			Varsha Chavan			
19			Shivani Kadam			
20			Pratiksha Sawant			
21	6	Automation	Pranali Ghorpade	Fog Disinfection Hand Washing Machine	Prof. Chavan S. G.	
22			Asif Shaikh			
23			Prajakta Vidhate			
24			Komal Jadhav			
25	7	IoT	Pradnya Vibhute	Password Based Circuit Braker	Prof. Jagtap D. B.	Prime Enterprises, Satara
26			Sandhyarani Chavan			
27			Pooja Kharkar			
28			Mrunali Lavand			
29	8	IoT	Simran Patel	IoT enable air pollution meter with digital dashboard on Smartphone	Prof. Hingmire V. S.	
30			Trupti Jadhav			
31			Vaishnavi Kadam			
32			Snehal Potekar			
33	9	IoT	Mahesh Pawar	Gas Leakage Detection Control and Weight Alert System	Prof. Hingmire V. S.	ASM Tracks Pvt. Ltd. Khandala
34			Rohan Pharande			
35			Shivanand Goudvaru			
36			Aniket Nimbalkar			
37	10	IoT	Aishwarya Bhandare	IoT Based Health Tracking Wrist Watch	Prof. Jagtap D. B.	
38			Harshada Dhaygude			
39			Hema Babar			
40			Aishwarya Kadam			
41	11	Automation	Nilraj Madiwal	Agriculture Automation Using Sensors & Actuators	Prof. Jagtap D. B.	Phoenix Agro Solar Ltd. Satara
42			Pranali Vidhate			
43			Vaishnavi Jadhav			
44			Vaishnavi More			
45	12	IoT	Sawant Gouri	IoT Based Automatic Vehicle Accident Detection and Rescuc System	Prof. Chavan S. G.	
46			Madhavi Kadam			
47			Sachin Sakunde			
48			Abhishek Rajeshirke			
49	13	IoT	Chavan Kajal	IoT based safety device for miners.	Prof. Gujar V. B.	
50			Bhilare Priyanka			
51			Gujale Shivani			
52			Pawar Ankita			
53	14	IoT	Nikam Sayali	Arduino based automated password typer system	Prof. Jagtap D. B.	
54			Savakhande Tejas			

Figure 5.5.35 Final Year Project List for the Academic Year 2021 – 2022

Samarth Educational Trust Arvind Gavali College of Engineering, Satara Project Report Submission Status Btech Final Year (2020 - 2021) Department of Electronics and Telecommunication Engineering						Samarth Educational Trust Arvind Gavali College of Engineering, Satara Project Report Submission Status Btech Final Year (2020 - 2021) Department of Electronics and Telecommunication Engineering					
Sr. No.	Name of the Project Group Members	Title of the Project	Domain	Name of the Guide	Sponsors	Sr. No.	Name of the Project Group Members	Title of the Project	Domain	Name of the Guide	Sponsors
1	Akash Bhimrao Chougule Akshay Arun Jadhav Namrata Ramdas Chavan Amit Rajendra Pawar	IoT-Based Industrial Security System	IoT	Mr. Hingmire V. S.	Ajinkya Polymer and Engineering, Satara	10	Shirke Amit Krishna Abhijeet Sanjay Rajpure Snehal Vijay Salunkhe Pooja Dhondiram Vibhute	School Bus Monitoring System	IoT	Mr. Jagtap D. B.	New English Medium School, Panmalewadi, Satara
2	Gavali Manisha Krushnakant Gurav Kanchan Dattatray Waragade Mrunal Dilip Nikam Priyanka Chandrakant	Transformer Theft Protection and Monitoring	IoT	Mr. Barkade V. T.	AGCE, Satara	11	Megha Jalindhar Rankhambe Priyanka Manohar Yadhav Pooja Suresh Deshmukh Mayuri Tukaram Salunkhe	IoT-Based Solar Smart Irrigation System	IoT	Ms. Mahamuni P. N.	
3	Shinde Ganesh Sanjay Mahadik Darshan Deepak Kale Kshilij Suryakant Jadhav Nilam Suresh	IoT-Based Vehicle Tracking System	IoT	Mr. Jagtap D. B.		12	Waydande Vidya Tulshiram Salunkhe Atul Madhukar Deshmukh Rohit Pandurang Salunkhe Rushikesh Ramesh	Advanced Spying and Bomb Disposal Robot	IoT	Ms. Mahamuni P. N.	
4	Mahadik Sayali Yashwant Mankar Komal Ramchandra Suryavanshi Prajakta Pratap Akshay Sanjay Shinde	Smart Shopping Cart For Automatic Billing In Supermarket	IoT	Ms. Mahamuni P. N.		13	Prasad Sanjay Pawar Prathamesh Anandrao More Mohasin Maulaso Mulani Suraj Shivaji Kadam	4KW Solar Control Panel Designing and Mounting	Power Systems	Mr. Barkade V. T.	AGCE, Satara
5	Akshata Mahesh Urane Rakshata Mahadev Bhingare Mrunali Kishor Deoghare Mayuri Chandrakant Shingte	IoT Based Health Monitoring System	IoT	Mr. Jagtap D. B.		Lunch Break					
6	Poonam Madhukar chavan Tanuja Vishvas Chavan Akshata Pandurang Patil Rajashri Dajiram Deshmukh	Sanitizer Dispensing Robot	IoT	Mr. Barkade V. T.	Prime Enterprises, Satara	14	Parag Dilip Babar Aipesh Anandrao Jadhav Jayant Sanjay Pawar Pooja Dattatraya Pawar	UV Light Disinfection Chamber Using ARM7	IoT	Ms. Mahamuni P. N.	Phoenix Agro Solar Industry, Satara
Lunch Break						15	Parate Priyanka Sanjay Pawar Snehal Mahadev Sutar Prajawal Santosh Jadhav Prachi Prakash	IoT-Based Smart Agriculture System	IoT	Mr. Barkade V. T.	Phoenix Agro Solar Industry, Satara
7	Priyanka Rajendra Chavan Shilal Mahadev Sawant Bhagyashri Raghunath Mali Akash Pratap Bhoite	Smart Receptionist Using IoT	IoT	Mr. Hingmire V. S.	3 Star IT Solutions, Satara	16	Jadhav Tejal Vishwasrao Kadam Swati Pratap Kumbhar Pradnya Shankarrao Lakade Supriya Anil Bhosale Snehal Baban	IoT-Based Smart Grocery Monitoring System	IoT	Mr. Hingmire V. S.	
8	Avinash Shahaji Waghmare Ashwini sudhakar Jadhav Mayuri shinde Vinchu Sonam	Smart Apartment Management System	IoT	Mr. Hingmire V. S.		17	Kharat Shital Shashikant Salunkhe Abhishek Bhosale Jyoti Rajkumar Jamdade Sharvani Ramesh	IoT-Based Night Patrolling Robot With Arduino and ESP-32	IoT	Dr. Bhosale V. K.	
Tea Break						Tea Break					
9	Bandal Tushar Jayawant Gowarkar Rutvik Ajit Pawar Kuldeep Shivaji Kulkarni Vishwjeet Amol	Alexa Based Home Automation System	IoT	Dr. Mirajkar G S	VRT Enterprises, Satara	18	Jadhav Anuradha Narendra Phrande Tejshwini Jagadale Kajal Shinde Prajka	IoT-Based Garbage Monitoring System	IoT	Mr. Jagtap D. B.	

Figure 5.5.36 Final Year Project List for the Academic Year 2020 - 21

Arvind Gavali College of Engineering Satara
DEPARTMENT OF E&TC ENGINEERING
CLASS : BE E&TC (2019 - 2020)
Subject: Final Year Project

Sr. No.	Roll No.	Name of Student	Name of Project	Guide	Sponsors
1	4026	BHOSALE DHANASHRI	GreenHouse Monitoring ,Controlling, and automation System using Microcontroller	Barkade V.T.	Phoenix Agro Solar Industry
2	4019	DIXIT VARSHA			
3	4018	LAKADE PRACHI			
4	4025	SANDE NISHAD	Swarm Robotics	Ms.Mahamuni P.N.	ASM Tracks Pvt. Ltd.
5	4028	YADAV MADHURI			
6	4027	CHAVAN PRITI			
7	4012	SHINDE DHIRAJ	Execution of Different Commands in 3G/4G Network with GSM based System	Mr.Khade V.C.	ApronTech, Satara
8	4015	YADAV VAISHALI			
9	4007	JADHAV VISHAKHA S			
10	4003	BHOSALE SNEHAL	Automatic Packaging Using PIC Microcontroller	Dr.Mirajkar G.S.	Gajanan Packwell Pvt. Ltd.
11	4014	YADAV NIKITA			
12	4001	BANKAR NILAM PRADIP			
13	4016	RAJE NETRA SURESH	coal Mine Safety Monitoring and Alerting System by Using IOT	Ms.Mahamuni P.N.	ApronTech, Satara
14	4017	PAWAR NILAM			
15	4022	JADHAV POONAM			
16	4020	MORE VIVEK	IOT Based Digital Notice Board	Mr.Jagtap D.B.	Saitronics Pvt. Ltd. Satara
17	4021	NALAWADE VISHAL			
18	4023	MANE PRIYANKA			
19	4008	JADHAV NAMRATA	Agriculture based robot by Using IOT	Barkade V.T.	Make2explore Pvt. Ltd. Satara
20	4002	BANE SHUBHANGI			
21	4005	CHABUKSWAR SANOVAR			
22	4006	DESHPANDE AISHWARYA	Bridge Monitoring System	Ms.Shivdas S.S.	Innovative Construction, Satara
23	4010	MENGANE NANDINI			
24	4004	BHOSALE POOJA			
25	4009	KADAM KIRAN	Smart Flood control and Intelligent Dam Coordination System	Mr.Hingmire V.S.	ASM Tracks Pvt. Ltd.
26	4011	NIKAM AISHWARYA S			
27	4013	SHINDE PRAJAKTA			
28	4024	MOHITE CHAITANYA			

Figure 5.5.37 Final Year Project List for the Academic Year 2019 – 2020

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

Name of the Faculty	Max. 5 per Faculty			
	CAY	CAYm1	CAYm2	CAYm3
	2021 – 2022	2020 - 2021	2019 - 2020	2018 – 2019
Vishal Sharad Hingmire	2	2	2	2
Dr. Gayatri Shashikant Mirajkar	2	1	2	0
Dayanand Bajirao Jagtap	2	1	2	5
Vijay Tukaram Barkade	0	1	4	1
Vishnu Chandrakant Khade	1	2	4	4
Pratima Nandkumar Mahamuni	1	1	1	0
Snehal Prakash Jadhav	2	1	0	0

Hanamant Mahadev Havagondi	0	1	1	0
Pravin Hanumanta Pawar	0	1	1	0
Atul Bharat Nikam	0	1	1	0
Rahul Prakash Sakhare	1	1	1	0
Vivek Chandrakant Mohite	0	1	0	0
Anuradha Manik Kambale	0	1	1	0
Tanuja Krushnath Phadtare	1	0	0	0
Santosh Gulabrao Chavan	1	0	0	0
Ketaki Sanjay Sawashe	0	0	0	0
Tejashree Suresh Balgude	0	0	0	0
Sucheta Sunil Shivdas	0	0	2	1
Shrikant Subhash Khaire	0	0	1	0
Supriya Ashok Barge	0	0	1	0
Priyanka Hanmantrao Kumbhar	0	0	1	0
Dr. Shivajirao Sangale	0	0	0	0
Sum	13	15	25	13
RF= Number of Faculty required to comply with 20:1 Student-Faculty ratio as per 5.1	9.7	9.4	9.1	8.25
Assessment = 3 (Sum/0.5RF) (Marks limited to 15)	8.04	9.57	16.48	9.45
Average assessment over three years (Marks limited to 15) = 11.36				

Table B.5.6

Institute Marks: 11.36

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/Conference	Journal Details
1	Dr. Gayatri Mirajkar	Image processing in toxicology: A systematic review	SEMIT-2023 (Accepted)	Proceedings with Springer in Communications in Computer and Information Science Series
2	Dr. Gayatri Mirajkar	Comparative analysis of texture analysis methods for retrieval of forest stand age for SAR images	Annals of Forest Research	SCI Vol. 65, No. 1, pp. 8807 – 8817, August 2022 ISSN: 18448135, 20652445
3	Dr. Gayatri Mirajkar	Intelligent Biomedical Technologies and Applications for Healthcare 5.0	Elsevier	Scopus, EI – Compandex
4	Dr. Vishal Hingmire	SAOA: Multi-Objective Fault-Tolerance Based Optimized RPL Routing Protocol in Internet of Things	Cybernetics and systems: An International Journal	https://doi.org/10.1080/01969722.2022.2146845

				Print ISSN: 0196-9722 Online ISSN: 1087-6553
5	Dr. Gayatri Mirajkar	Gesture Recognition Based Virtual Mouse Keyboard	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
6	Dr. Gayatri Mirajkar	Voice Based Medical Assistant Chatbot	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
7	Mr. Dayanand Jagtap	IoT Based Smart Lift Management System	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
8	Mr. Dayanand Jagtap	IoT Based Dam Irrigation System	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
9	Dr. Mrs. Deepali Shinde	AI Based Automatic Answer Checker	Proceedings of the International Conference on Innovations and Recent Trends	ISBN: 978-81-961931-1-9

			in Engineering and Science (ICIRTES-2023)	
10	Mrs. Bhagyashri Pol	Wireless mobile charger	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
11	Mrs. Bhagyashri Pol	Accelerometer Based Hand Gesture Controlled Robo-Car	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
12	Dr. Gayatri Mirajkar	Fingerprint Door Lock System	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
13	Dr. Mrs. Deepali Shinde	Sign Language For Deaf and Mute People	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
14	Mrs. Sanskruti Nalawade	IoT Based Digital Notice Board	Proceedings of the International Conference on Innovations and	ISBN: 978-81-961931-1-9

			Recent Trends in Engineering and Science (ICIRTES-2023)	
15	Dr. Gayatri Mirajkar	Greeting Voice Controlled Robot Using Arduino Board	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
16	Dr. Mrs. Deepali Shinde	IOT Based Electricity Theft Detection System	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
17	Mr. Santosh Chavan	Military Spying Robot	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
18	Dr. Gayatri Mirajkar	Crop Prediction and Leaf Disease Detection	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
19	Mr. Santosh Chavan	Web Development based "Smart Agriculture System"	Proceedings of the International Conference on	ISBN: 978-81-961931-1-9

			Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	
20	Mrs. Sanskruti Nalawade	IoT Based Internet Operated Robot Controlled System	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9
21	Mrs. Sanskruti Nalawade	Traffic Light Control System	Proceedings of the International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTES-2023)	ISBN: 978-81-961931-1-9

Academic Year 2021 - 2022

Sr. No.	Faculty Name	Title of the Paper	Name of the Journal/Conference	Journal Details
1	Vishnu Chandrakant Khade	Maize leaf healthy and unhealthy classification using image processing technique and machine learning classifiers	International Conference on Communications and Cyber-Physical Engineering 2021, Lecture Notes in Electrical Engineering (LNEE)	Springer, ISSN: 1876 – 1100, 16 May 2022
2	Vishal Sharad Hingmire	Fault-Tolerant multi-path data communication mechanism in WSN based on	Wireless Personal Communication	Springer, Vol. 125, pp. 841 – 859, March 2022 E-ISSN: 1572 – 834X

		optimization enabled routing		Print ISSN: 0929 – 6212
3	Vishal Sharad Hingmire	Energy-aware multipath routing in WSN using improved invasive weed elephant herd optimization	International Journal of Pervasive Computing and Communications	Emerald Publishing Limited, International Journal of Pervasive Computing and Communications, Vol. ahead-of-print, No. ahead-of-print, ISSN: 1742 – 7371 February 2022

Academic Year 2020 - 2021

Sr. No.	Faculty Name	Title of the Paper	Name of the Journal/Conference	Journal Details
1	Dr. Gayatri Shashikant Mirajkar	A machine learning model for venue exploration and recommendation	Official Journal of the Patent Office	Publication of the Patent Office Issue No. 47/2021, Friday, Date: 19/11/2021 pp. 54735

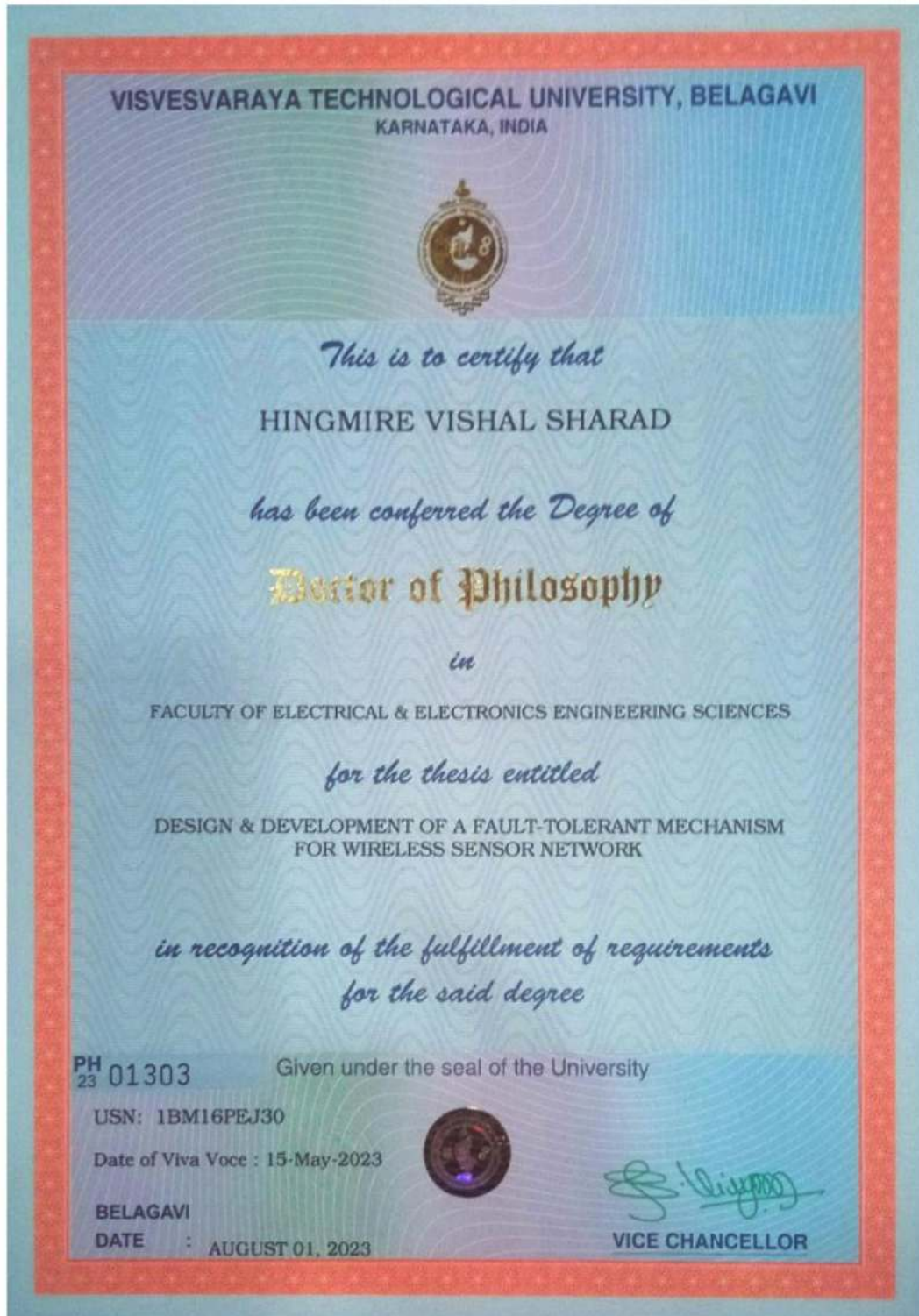
Academic Year 2019 - 2020

Sr. No.	Faculty Name	Title of the Paper	Name of the Journal/Conference	Journal Details
1	Vishnu Chandrakant Khade	Machine learning approach for identification and recognition of rice leaf diseases: A survey	TEST Engineering and Management	Vol. 83 pp. 25325 – 25335 ISSN: 0193 - 4120
2	Vishal Sharad Hingmire	FTmRP-NCS: Fault-Tolerant and reliable mRPL routing protocol	International Journal of Recent Technology and Engineering (IJRTE)	Vol. 8, no. 6, pp. 887 – 898, March 2020

		for W-NCS communication		ISSN: 2278 – 3878 (Online)
3	Vishal Sharad Hingmire	IoT-based water dispensing apparatus	Official Journal of the Patent Office	Publication of the Patent Office Issue No. 21/2020 Friday Date: 22/05/2020
4	Vijay Tukaram Barkade	Greenhouse monitoring, controlling, and automation by using 8051 microcontroller	International Conference on Innovations and Recent Trends in Engineering and Science (ICIRTE – 20)	11 April 2020, Arvind Gavali College of Engineering, Satara, Maharashtra, India
5	Vijay Tukaram Barkade	Agriculture based robot using IoT		
6	Vishnu Chandrakant Khade	Execution of different commands by using 3G/4G network with GSM		
7	Sucheta Sunil Shivdas	Bridge analysis and prevention		
8	Pratima Nandkumar Mahamuni	Coal mine safety monitoring and alternating system by using IoT		

5.7.2 B) PhD guided/Phd awarded during the assessment period while working in the institute (4)

Faculty Name	Phd guiding	During assessment year PhD award
Dr. Vishal Sharad Hingmire	-	15 th May 2023



1

Figure 5.7.2.1 PhD Certificate of Dr. Vishal Sharad Hingmire

5.7.2 Sponsored Research

(05)

- **Funded research:**

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

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

Amount > 20 Lakh - 5 Marks

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 - 0 Marks

2021 – 22 (CAY):

Sr. No.	Project Title	Duration	Funding Agency	Amount
1	IoT Based Smart Bike Helmet	1 Year	Apron Tech, Satara, Maharashtra, India	18000
2	Bridge Collapse and Crack Detection Using Arduino IoT	1 Year	Innovative Constructions, Satara, Maharashtra, India	15000
3	Design and Development of prototype for plastic waste management using IoT application	1 Year	Prime Enterprises, Satara, Maharashtra, India	12000
4	IoT Color Based Product Sorting Machine	1 Year	Apron Tech, Satara, Maharashtra, India	19000
5	Crop Protection System from Animal Using PIC	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	9000
6	Fog Disinfection Hand Washing Machine	1 Year	Gajanan Packwell Pvt. Ltd., Satara, Maharashtra, India	15000
7	Password Based Circuit Breaker	1 Year	VRT Enterprises, Satara, Maharashtra, India	12000
8	IoT enable air pollution meter with digital dashboard on Smartphone	1 Year	VRT Enterprises, Satara, Maharashtra, India	15000
9	Gas Leakage Detection Control and Weight Alert System	1 Year	VRT Enterprises, Satara, Maharashtra, India	12000

10	IoT Based Health Tracking Wrist Watch	1 Year	Apron Tech, Satara, Maharashtra, India	15000
11	Agriculture Automation Using Sensors & Actuators	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	12700
12	IoT Based Automatic Vehicle Accident Detection and Rescue System	1 Year	Prime Enterprises, Satara, Maharashtra, India	15000
13	IoT based safety device for miners	1 Year	VRT Enterprises, Satara, Maharashtra, India	10000
14	Arduino based automated password typer system	1 Year	ASM Tracks Pvt. Ltd., Tal. Khandala, Dist. Satara, Maharashtra, India	9700
			Total Amount (X):	189400

VRT INNOVATIONS
S.No – 1866 A.P. Limb
Tal – Dist – Satara
Pin – 415015 MS
vrt.innovation@gmail.com

VRT
INNOVATIONS

Letter of Sponsorship

April 12, 2022

To,
The Principal
ARVIND GAVALI COLLEGE OF ENGG.

For,
Project Name: Gas Leakage Detection Control and Weight Alert System
Year: 2021-22
Team: Mr. Mahesh Pawar
Mr. Rohan Pharande
Mr. Shivanand Goudnvaru
Mr. Aniket Nimbalkar

Dear Sir,

I am writing on behalf of VRT Innovations to express our enthusiastic support and sponsorship for an exciting project undertaken by the talented students Of Arvind Gavali College of Engineering, Satara.

At VRT Innovations, we are committed to innovation, education, and community development. We believe that investing in the aspirations and ideas of the younger generation is pivotal to a brighter and more prosperous future. It is with great pleasure that we announce our sponsorship for the project "Gas Leakage Detection Control and Weight Alert System" costing Rupees 12000/-.

The "Gas Leakage Detection Control and Weight Alert System" aligns perfectly with our organization's mission and values. We are impressed by the dedication and passion demonstrated by the students involved in this initiative and recognize the potential impact it can have on both the academic and broader community.

Our sponsorship for this project will include financial support, equipment, mentorship, etc. We are committed to assisting the students in achieving their goals and ensuring the successful implementation of the project.

Figure 5.7.2.2 Project Sponsorship Letter for the Project, "Gas Leakage Detection and Weight Alert System" Page 1

VRT INNOVATIONS

S.No – 1866 A.P. Limb
Tal – Dist – Satara
Pin – 415015 MS
vrt.innovation@gmail.com

**VRT
INNOVATIONS**

We look forward to a productive and mutually beneficial partnership with Arvind Gavali College of Engineering and the students involved in the project. We are excited to see the innovative solutions and positive impact that this project will bring to our community and beyond.

Thank you for considering our sponsorship proposal. We are thrilled to be a part of this important endeavor and are excited about the future successes of the project.

With thanks & regards,

For VRT INNOVATIONS

Figure 5.7.2.3 Project Sponsorship Letter for the Project, “Gas Leakage Detection and Weight Alert System” Page 2

2020 – 21 (CAYm1):

Sr. No.	Project Title	Duration	Funding Agency	Amount
1	IoT-Based Industrial Security System	1 Year	Ajinkya Polymers and Engineering, Satara, Maharashtra, India	18000
2	Transformer Theft Protection and Monitoring	1 Year	Arvind Gavali College of Engineering, Satara, Maharashtra, India	9400
3	Sanitizer Dispensing Robot	1 Year	Prime Enterprises, Satara, Maharashtra, India	20000
4	Smart Receptionist Using IoT	1 Year	3 Star IT Solutions, Satara, Maharashtra, India	22500
5	Alexa Based Home Automation System	1 Year	VRT Enterprises, Satara, Maharashtra, India	12000
6	School Bus Monitoring System	1 Year	New English School, Panmalewadi, Satara, Maharashtra, India	14900
7	4KW Solar Control Panel Designing and Mounting	1 Year	Arvind Gavali College of Engineering, Satara, Maharashtra, India	20000
8	UV Light Disinfection Chamber Using ARM7	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	12700
9	IoT-Based Smart Agriculture System	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	15000
Total Amount (Y):				144500

2019 – 20 (CAYm2):

Sr. No.	Project Title	Duration	Funding Agency	Amount
1	Semi-Automatic approach for tumor segmentation in human brain MR images	1 Year	Office of TEQIP 3 Project, Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, India	200000
2	Greenhouse Monitoring, Controlling, and automation System using Microcontroller	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	25000

3	Swarm Robotics	1 Year	ASM Tracks Pvt. Ltd. Tal. Khandala, Dist. Satara, Maharashtra, India	23400
4	Execution of Different Commands in 3G/4G Network with GSM based System	1 Year	Apron Tech, Satara, Maharashtra, India	24000
5	Automatic Packaging Using PIC Microcontroller	1 Year	Gajanan Packwell Pvt. Ltd., Satara, Maharashtra, India	15000
6	Coal Mine Safety Monitoring and Alerting System by Using IOT	1 Year	Apron Tech, Satara, Maharashtra, India	30000
7	IoT-Based Digital Notice Board	1 Year	Saitronics Pvt. Ltd., Satara, Maharashtra, India	25000
8	Agriculture Based Robot Using IoT	1 Year	Make2explore LLP., Satara, Maharashtra, India	18000
9	Bridge Monitoring System	1 Year	Innovative Constructions, Satara, Maharashtra, India	22500
10	Smart Flood control and Intelligent Dam Coordination System	1 Year	ASM Tracks Pvt. Ltd. Tal. Khandala, Dist. Satara, Maharashtra, India	30000
Total Amount (Z):				412900

2018 – 19 (CAYm3):

Sr. No.	Project Title	Duration	Funding Agency	Amount
1	Automatic Powder Packing Machine	1 Year	Star IT solutions, Satara, Maharashtra, India	28000
2	Automation System for Milk Processing	1 Year	Shuddha Dairy, Satara, Maharashtra, India	35000
3	Smart Automation System for Accident Detection	1 Year	Butterfly Pvt. Ltd., Satara, Maharashtra, India	26000
4	Machine Automation with GSM Module	1 Year	A. R. Engineering, Satara, Maharashtra, India	34000
5	Rough Edge Detection Using Image Processing on Production Line	1 Year	Ajinkya Polymers and Engineering, Satara, Maharashtra, India	20000
6	Solar Trap Light	1 Year	Prime Enterprises, Satara, Maharashtra, India	32000

7	Street Light Control	1 Year	Arvind Gavali College of Engineering, Satara, Maharashtra, India	25000
Total Amount:				200000

Cumulative Amount (X + Y + Z) = 746800

Institute Marks: 5

5.7.3 Development Activities

(10)

Provide details:

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

Product Development:

1. 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.
- Creation of a digital library (database) of trees containing their common name, botanical name, photograph of the tree, and its use.

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

		<ul style="list-style-type: none">➤ Girth of the Tree➤ Whether Having Medicinal Uses
--	--	---



Figure 5.7.3.1 Heritage Tree Census Being Conducted by the Students of AGCE, Satara at Panchgani Hill Station, Panchgani, Dist. Satara, Maharashtra, India



Figure 5.7.3.2 Heritage Tree Census Being Conducted by the Students of AGCE, Satara at Panchgani Hill Station, Panchgani, Dist. Satara, Maharashtra, India

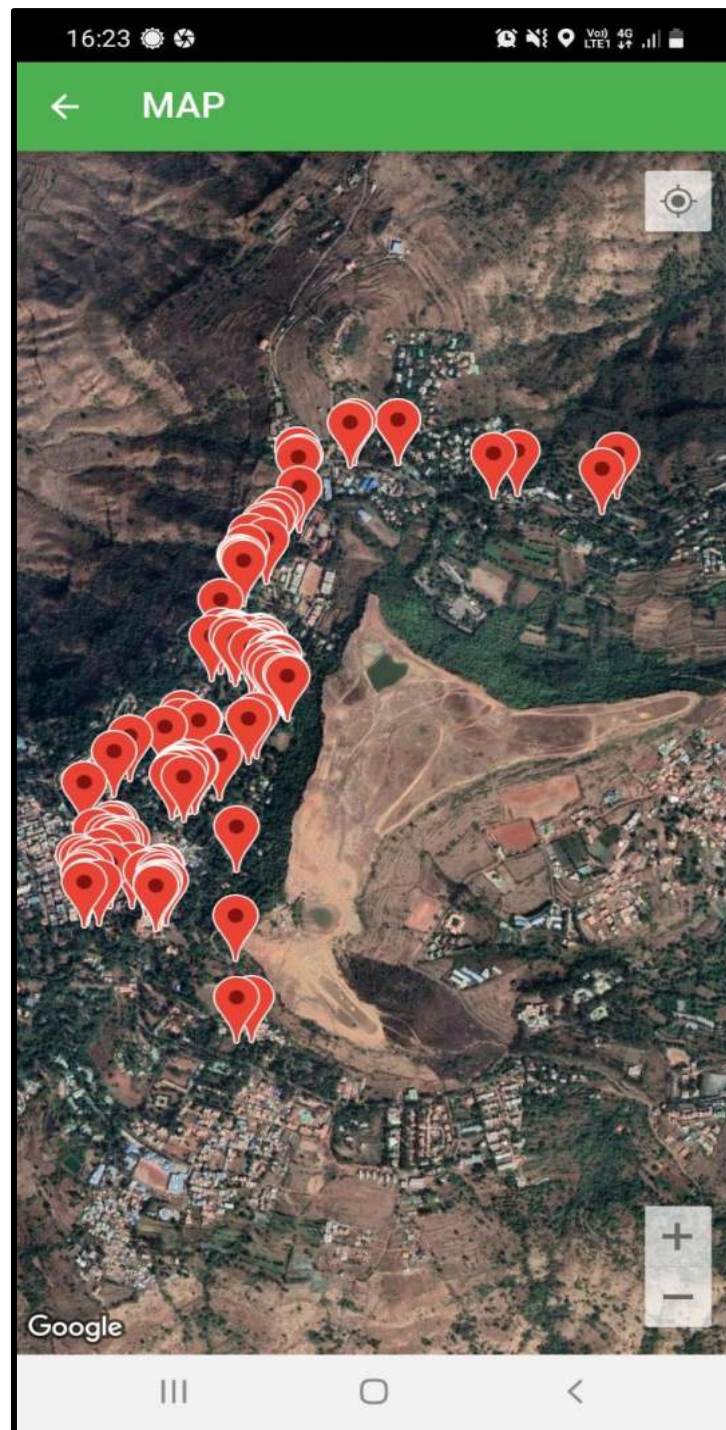


Figure 5.7.3.3 Screenshot of the Mobile Application (GeoPanchgani) Showing the Geo-tagged Trees on Google Earth

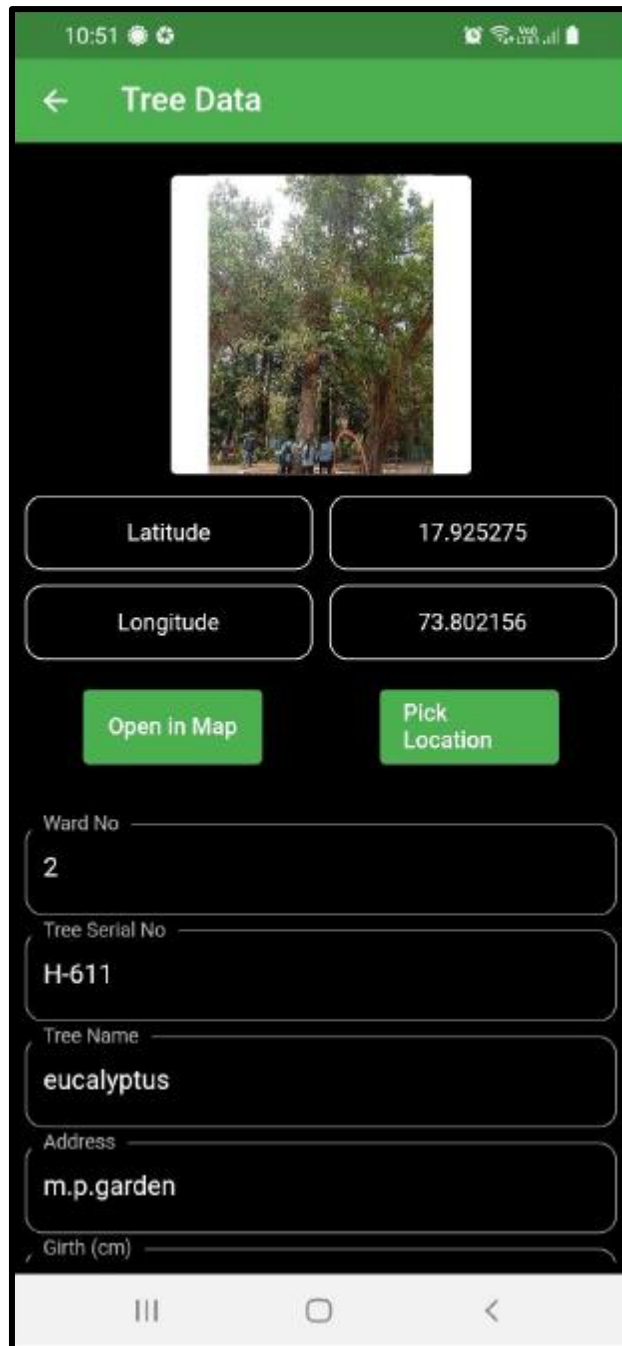


Figure 5.7.3.4 Screenshot of the Mobile Application GeoPanchgani (Admin Section) Showing the Parameters for One Tree

2. Transformer Theft Protection and Monitoring:

Patent Application No. 202221065599

The objective of the project is as follows:

- Development of an anti-theft device for protection of the 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 the distribution transformers based on the concept of Internet of Things (IoT).
- Attainment of minimum cost per device
- Designing the device which must be compact and difficult to detect.

3. Alexa Based Home Automation System

The objective of the project is as follows:

- Development of a reliable, secure, and interactive system that exercises full control over the electric and electronic aspects of the house with the potential to be accessed from across the globe.

The scope of the project is as follows:

- Utilize the technology offered by Amazon Echo and couple it with Arduino Node MCU to achieve voice control over electric and electronic equipment.
- Development of applications for Google Home and build personal assistants that can provide cost-effective solutions for non-smart homes.

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 environment.

In every course, a teacher can store the instructional materials like PowerPoint presentations, videos, animations, and lab manuals. The same is available to the enrolled students 24 × 7.

Teachers can schedule quizzes and assignments for their subjects periodically. Quizzes are based on Multiple Choice Questions (MCQs) and assignments can be uploaded for assessment. The grades obtained by the students are visible immediately after the quiz is attempted.

2. Project Posters:

Students are encouraged to participate in Poster Presentation competitions. Posters prepared by the students and presented in innovative project competitions such as AVISHKAR and ANVESHAN are made available for study and presentation purposes.



SAWKAR
INSTITUTES
SATARA
NAAC Accredited

SAMARTH EDUCATIONAL TRUST

ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA

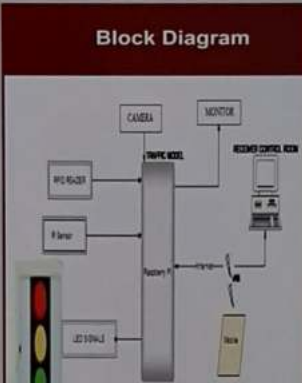
Problem Statement

We all know that India is the second largest populated country in world. India faces a problem in traffic congestion, it needs a solution for this problem. If we design a control system for traffic in proper way this congestion problem would be solved. Hence by using IOT concept this can be solved. If traffic lights work's depending upon the vehicle number in a lane/road, then time management for traffic lights can be done and congestion could be reduced in great way.

Engineering & Technology

IOT Based Intelligent Traffic Control System

Block Diagram



Description

- Raspberry Pi
The basic Raspberry Pi did not have Wi-Fi and Bluetooth in it, later it was added. Raspberry Pi 3 is used in our proposed system. It has Broadcom SOC and GPU. CPU's speed is 700M. Hz. 1.2G Hz. RAM has 256MB. 1GB memory. SD card store OS in it. There are 4 USB slots. For camera to interface it has CSI. USB cable is used to power the raspberry pi. Raspberry Pi also have video or audio jack. And it has 40 GPIO pins.
- RFID
In RFID we have RFID Reader and RFID tag. A unique number is allotted for every tags. RFID tags are of 2 types. Active and Passive. In our proposed system we have used passive tags. Passive tag will not have power supply whereas active will have. When RFID tag come close to reader i.e. when tag is within range, because of mutual inductance the RFID tag will get powered up from reader which has power supply. Hence the unique number present in that tag memory will be transferred to the reader. Tag can only store ID number it has no more memory space.
- IR Sensor
Intra-red rays are not invisible to human eyes. IR sensor will have transmitter and receiver in it. Transmitter will always emit IR rays. The IR rays transmitted will strike the object, if object is present in front of sensor. The ray strucked will get reflected and this will be sensed by IR receiver. So by this we can identify how far the object is. And presence of object can be identified.
- Pi Camera
Pi Camera will take high definition pictures and video. It is connected to CSI port of Raspberry Pi. Camera is of 5 Mega Pixel. Usually cameras are used for surveillance purpose.
- LED Lights
LED lights are used as traffic lights.


Objective

Providing Green signal to emergency vehicles is very important task to save patient life. And if the automobile is lost or theft, in present days it is a long procedure of filing case in police station and then searching for it. Tracking has to be done as soon as possible. This both can be cleared by using RFID near field communication.

Contribution

From present situation, an efficient solution to the problem is not yet obtained. Hence in order to provide effective solution this prototype is designed.
The Raspberry Pi is used in system takes controls on all. IR sensors are used to identify the density of traffic. And to identify the entry of ambulance and lost automobiles RFID is used. Camera used in system takes still pics of traffic. By seeing this pic authorized person in control room will take decision in manual mode of operation.

Result and Discussion



The Raspberry Pi is used in system takes controls on all. IR sensors are used to identify the density of traffic. And to identify the entry of ambulance and lost automobiles RFID is used. Camera used in system takes still pics of traffic. By seeing this pic authorized person in control room will take decision in manual mode of operation.

Conclusion

The proposed system results are as we expected. By this proposed system time management for signal lights is done which will reduce the traffic congestion problem. And the system has automatic and manual operations. When lost vehicle is identified a email will be dropped. Tracking of stolen automobile is done successfully and is fast. Clearance of traffic for emergency automobile is successfully implemented. Hence, many precious lives would be saved. Further the same prototype can be added with accident message alert. And at present we have implemented the design for only one road of junction. This can be extended to more number of junctions. An 'app' can be designed which uses traffic status at different location from the control station database to display so that it helps normal people.

Student Name : Pawar Aarti

Class: S. T. E & TC

Academic Year : 2019-20

Figure 5.7.3.5 AVISHKAR Poster Displayed in the Laboratory

3. Laboratory Manuals:

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

Table 6. Lab Manuals for the Subjects under E&TC for the Academic Year 2022 – 23

Sr. No.	Semester	Year	Name of the Subject
1	Even Semester	SY B.Tech	1. Network Theory Lab

		TY B.Tech	<ol style="list-style-type: none"> 1. Computer Communication Network 2. Power Electronics
2	Odd Semester	SY B.Tech	<ol style="list-style-type: none"> 1. OpAmp and Linear Integrated Circuits 2. Electronic Devices and Circuits 3. Electronics Workshop
		TY B.Tech	<ol style="list-style-type: none"> 1. Control Systems 2. Microcontroller and Its Applications 3. Digital Signal Processing
		Final Year B.Tech	<ol style="list-style-type: none"> 1. Embedded System Design 2. Digital Communication

4. Working Models/Charts/Monograms etc.:

Following is the list of charts displayed in the laboratories of the E&TC department:

Table 9. Updated list of Charts Displayed in the Laboratories of the Department [2022-23]

Sr. No.	Lab Name	Chart Title
1	Digital Electronics and Microprocessor	<ul style="list-style-type: none"> ▪ 8085 Block Diagram ▪ List of Experiments of Digital Electronics
2	Electronic Devices and Circuits	<ul style="list-style-type: none"> ▪ Junction Field Effect Transistor ▪ Metal Oxide Semiconductor Field Effect Transistor ▪ Operational Amplifier (OpAmp) ▪ V-I Characteristics of DIAC ▪ List of Experiments of Analog Electronics

3	Antenna Wave Propagation and Microwave Engineering	<ul style="list-style-type: none"> ▪ Antenna ▪ Types of Antennas ▪ List of Experiments of RF and Microwave Engineering
4	Simulation	<ul style="list-style-type: none"> ▪ List of Experiments of Simulation Lab (MATLAB)
5	Communication and Measurement	<ul style="list-style-type: none"> ▪ Modulation Classification and Types ▪ List of Experiments of Digital Communication ▪ List of Experiments of Transducers and Measurement
6	Basic Electronics	<ul style="list-style-type: none"> ▪ Electronic Components ▪ Cathode Ray Tube

Table 8. Charts Displayed in the Laboratories of the Department for the duration 2021-22 to 2019-20

Sr. No.	Lab Name	Chart Title
1	Digital Electronics and Microprocessor	<ul style="list-style-type: none"> ▪ 8085 Block Diagram ▪ List of Experiments of Digital Electronics
2	Electronic Devices and Circuits	<ul style="list-style-type: none"> ▪ Junction Field Effect Transistor ▪ Metal Oxide Semiconductor Field Effect Transistor ▪ Operational Amplifier (OpAmp) ▪ V-I Characteristics of DIAC ▪ List of Experiments of Analog Electronics
3	Antenna Wave Propagation and Microwave Engineering	<ul style="list-style-type: none"> ▪ Antenna ▪ Types of Antennas ▪ List of Experiments of RF and Microwave Engineering
4	Simulation	<ul style="list-style-type: none"> ▪ List of Experiments of Simulation Lab (MATLAB)
5	Communication and Measurement	<ul style="list-style-type: none"> ▪ Modulation Classification and Types ▪ List of Experiments of Digital Communication ▪ List of Experiments of Transducers and Measurement
6	Basic Electronics	<ul style="list-style-type: none"> ▪ Electronic Components ▪ Cathode Ray Tube

5.7.4 Consultancy (from Industry)

(05)

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

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

Amount > 10 Lakh

- 5 Marks

Amount >= 8 Lakh and <= 10 Lakh

- 4 Marks

Amount >= 6 Lakh and <= 8 Lakh

- 3 Marks

Amount >= 4 Lakh and <= 6 Lakh

- 2 Marks

Amount >= 2 Lakh and <= 4 Lakh

- 1 Mark

Amount < 2 Lakh

- 0 Mark

2021 – 22 (CAYm1):

Sr. No.	Project Title	Duration	Funding Agency	Amount
1	IoT Based Smart Bike Helmet	1 Year	Apron Tech, Satara, Maharashtra, India	18000
2	Bridge Collapse and Crack Detection Using Arduino IoT	1 Year	Innovative Constructions, Satara, Maharashtra, India	15000
3	Design and Development of prototype for plastic waste management using IoT application	1 Year	Prime Enterprises, Satara, Maharashtra, India	12000
4	IoT Color Based Product Sorting Machine	1 Year	Apron Tech, Satara, Maharashtra, India	19000
5	Crop Protection System from Animal Using PIC	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	9000
6	Fog Disinfection Hand Washing Machine	1 Year	Gajanan Packwell Pvt. Ltd., Satara, Maharashtra, India	15000
7	Password Based Circuit Breaker	1 Year	VRT Enterprises, Satara, Maharashtra, India	12000
8	IoT enable air pollution meter with digital dashboard on Smartphone	1 Year	VRT Enterprises, Satara, Maharashtra, India	15000
9	Gas Leakage Detection Control and Weight Alert System	1 Year	VRT Enterprises, Satara, Maharashtra, India	12000
10	IoT Based Health Tracking Wrist Watch	1 Year	Apron Tech, Satara, Maharashtra, India	15000

11	Agriculture Automation Using Sensors & Actuators	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	12700
12	IoT Based Automatic Vehicle Accident Detection and Rescue System	1 Year	Prime Enterprises, Satara, Maharashtra, India	15000
13	IoT based safety device for miners	1 Year	VRT Enterprises, Satara, Maharashtra, India	10000
14	Arduino based automated password typer system	1 Year	ASM Tracks Pvt. Ltd., Tal. Khandala, Dist. Satara, Maharashtra, India	9700
Total Amount (X):				189400

2020 – 21 (CAYm2):

Sr. No.	Project Title	Duration	Funding Agency	Amount
1	Heritage Tree Census Report (Including Heritage and Indigenous/Native Trees to the Sahyadri Region)	1 Year	Panchgani Hill Station Muncipal Council, Panchgani, Dist. Satara, Maharashtra, India	15000
2	AICTE Margdarshan Mentor-Mentee Scheme	1 Year	AICTE	500000
3	School Bus Monitoring System	1 Year	New English School, Panmalewadi, Satara, Maharashtra, India	14900
4	UV Light Disinfection Chamber Using ARM7	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	12700
5	IoT-Based Smart Agriculture System	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	15000
6	IoT-Based Industrial Security System	1 Year	Ajinkya Polymers and Engineering, Satara, Maharashtra, India	18000
7	Sanitizer Dispensing Robot	1 Year	Prime Enterprises, Satara, Maharashtra, India	20000
8	Smart Receptionist Using IoT	1 Year	3 Star IT Solutions, Satara, Maharashtra, India	22500

9	Alexa Based Home Automation System	1 Year	VRT Enterprises, Satara, Maharashtra, India	12000
Total Amount (Y):				630100

2019 – 20 (CAYm3):

Sr. No.	Project Title	Duration	Funding Agency	Amount
1	Greenhouse Monitoring, Controlling, and Automation System Using Microcontroller	1 Year	Phoenix Agro Solar Industry, Satara, Maharashtra, India	25000
2	Swarm Robotics	1 Year	ASM Tracks Pvt. Ltd., Khandala, Satara, Maharashtra, India	23400
3	Execution of Different Commands in 3G/4G Network with GSM Based System	1 Year	ApronTech, Satara, Maharashtra, India	24000
4	Automatic Packaging Using PIC Microcontroller	1 Year	Gajanan Packwell Pvt. Ltd. Satara, Maharashtra, India	15000
5	Coal Mine Safety Monitoring and Alerting System by Using IoT	1 Year	ApronTech, Satara, Maharashtra, India	30000
6	IoT-Based Digital Notice Board	1 Year	Saitronics Pvt. Ltd. Satara, Maharashtra, India	28000
7	Agriculture-Based Robot By Using IoT	1 Year	Make2explore Pvt. Ltd. Satara, Maharashtra, India	18000
8	Bridge Monitoring System	1 Year	Innovative Construction, Satara, Maharashtra, India	22500
9	Smart Flood Control and Intelligent Dam Coordination System	1 Year	ASM Tracks Pvt. Ltd. Satara, Maharashtra, India	30000
Total Amount (Z):				215900

Cumulative Amount (X + Y + Z) = 1035400

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 his/her self-weakness and tries to improve oneself in those areas so that he/she can score better in the next year.

The faculty with good API scores are given letters of appreciation and the faculty members having low API scores are personally counselled by the Head of the Institute.

Annual Self-assessment for the Performance-Based Appraisal System (PBAS) 2022 – 2023

APPRAISAL AND 360° FEEDBACK FORM

Name: Dr. Gayatri Mirajkar
 Date of Birth: 10/07/1980
 Highest Qualification: UG/PG/M.Ph.D. Ph.D. Post Doc (Pursuing)
 Designation: Professor and Dean (R&D)
 Experience: Teaching: 17 Industrial: — Total: 17
 Program: E&TC
 Mobile No.: 9860361553
 Email: gayatrimirajkar@gmail.com
 Permanent Address (with pin code): Behind Chaitanya Hs. Soc. SAMARTH BHAYA, Azad Colony, Judoli, Satara
 Academic Year: 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.

- Lectures, seminars, tutorials, practical's, contact hours undertaken taken as percentage of lectures allocated.
- Lectures or other teaching duties in excess of the UGC norms.
- Preparation and Imparting of knowledge / Instruction as per curriculum; syllabus enrichment by providing additional resources to students.
- Use of participatory and innovative teaching-learning methodologies; updating of subject content, course improvement etc.
- Examination duties (Invigilation; question paper setting, evaluation/assessment of answer scripts) as per allotment.

Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1.A	Excellent course file for the subject, teaching plan displayed	20	Lesson Plan and Lab Plan completed.	18	16
1.B	Conducting practical lab. / tutorials; work nicely with lab innovations	20	Yes, Conducting Labs as per Lab Plan	18	16
1.C	Student Feedback outcome	10	Feedback Prepared	08	08
2.A	Remedial Classes OR Extra lectures for DSE students	4			0
2.B	Content beyond syllabus	6	Beyond Syllabus	05	03
3.A	Preparation and Imparting of knowledge / instruction as per curriculum	10	Knowledge as per curriculum	08	08
3.B	syllabus enrichment by providing additional resources to students	10	Providing additional resources to students	08	0
4.A	Number of ICT Based Teaching material	5	Yes	04	03
4.B	Number of Interactive Courses	5	Yes, Interactive courses	04	03
4.C	Effective use of MOODLE	10	MOODLE used	08	07
5.A	At Institute Level	15	Yes, at institute level	12	12
5.B	At University Level	10	Yes, at university level	08	08
Total Score		125		101	97
Minimum API Score Required		75			

Figure 5.8.1.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	Guided project presented exhibition and industry sponsored	04	03
1.B	Industry tour / visit, Visit to technical Exhibition	4			0
1.C	Arranged the invited talks / Expert lecturers at Department / Institute level	4	Arranged invited talks at Institute level	04	05
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			0
1.E	extension work through NSS/NCC and other channels, cultural activities	4			0
2.A	Institute level Responsibilities (Deans/COE: 05, Heads:3, other:02)	5	Dean (Research & Development)	05	05
2.B	Event Coordinators (Institute Level: 05, Department Level: 03, Participation: 02)	5	Event coordinator, Institute level	05	05
2.C	Department Level Responsibilities: 05, Participation: 02	5	NATC Criteria 3 Dept.	05	05
3.A	Participation in short term training courses, curriculum development, training courses, talks, lectures	5	Invited speaker	05	05
3.B	Membership of professional associations committees, Boards of Studies, editorial committees of journals / institutional publications.	5	Senior Member IEEE, AM IETE, MIS TE	05	05
3.C	Participation in subject associations, conferences, and seminars without paper presentation.	5	Yes	05	05
Total Score		50			
Minimum API Score Required		20		38	38

Figure 5.8.1.a 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/ symposia

Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1.A	Refereed Journals *	20/ 2 publication	01	10.5	10
1.B	Non-refereed but recognized and reputable journals and periodicals, having ISBN/ISSN numbers	10 / 2 Publication			0
1.C	Conference proceedings as full papers, etc. (Abstracts not to be included)	5/ 2 publication			0
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	01 Edited Book	20	20
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			0
2.C	Subject Books by Other local publishers with ISBN/ISSN numbers.	10/ sole author, and 2 / chapter in edited books			0
2.D	Chapters contributed to edited knowledge based volumes published by International Publishers	5 /Chapter			0
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			0
Sponsored Projects carried out/ ongoing					
3.A	a) Major Projects amount mobilized with grants in between Rs.10,000 to Rs.50,000/-	10 /2 major project	01	05	0.5
	b) Minor Projects (Amount mobilized with grants upto Rs.10,000/-	7 /2 minor Project			
3.B	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			
3.D	Projects Outcome / Outputs: Patent/Technology transfer/ Product/Process	7 / each state level output or patent /4 /each for national level			

Figure 5.8.1.a Performance Appraisal Form Page 3

4.A	M.Tech/M.Phil. Degree awarded only	2/each			
	Ph.D.				
4.B	a) Degree awarded	4/each			
	b) Thesis submitted	1/each			
5.A	a) Not less than two weeks duration	7/each			
	b) One week duration	5/each	51	5	05
Participation and Presentation of research papers (oral/poster) in					
5.B	a) International conference	8/each	05	40	50
	b) National conference	6/each			
	c) Regional/State level	4/each			
	d) Local - University/College	2/each			
5.C	a) National level	5/each			
	b) State level	2/each			
Total Score		175		85	85
Minimum API Score Required		70			

*Wherever relevant to any specific discipline, the API score for paper in refereed journal would be augmented as follows: (i) indexed journals - by 5 points; (ii) papers with impact factor between 1 and 2 by 10 points; (iii) papers with impact factor between 2 and 5 by 15 points; (iv) papers with impact factor between 5 and 10 by 25 points.

** If a paper presented in Conference/Seminar is published in the form of Proceedings, the points would accrue for the publication (III (a)) and not under presentation (III (e)(ii)). Note: The API for joint publications will have to be calculated in the following manner: Of the total score for the relevant category of publication by the concerned teacher, the first/Principal author and the corresponding author/supervisor/mentor of the teacher would share equally 60% of the total points and the remaining 40% would be shared equally by all other authors.

supporting documents, wherever required be attached.

	Category I	Category II	Category III	Total Score
Total Score	125	50	175	350
Minimum API Score Required	75	20	70	165
Total Self-Assessment Score	101	38	85	224
Score by Screening/ selection committee	97	38	85	220

Date: 14/09/2023
Place: Satara

[Signature]
Signature of Faculty

Recommendation by screening team (Academic Monitoring Committee):

Excellent contribution in research

[Signature]
Member AMC

[Signature]
Head of Department

[Signature]
Registrar

[Signature]
Principal

Figure 5.8.1.a Performance Appraisal Form Page 4

APPRAISAL AND 360° FEEDBACK FORM

Name : Mr. Hingmize V. S.
Date of Birth : 9/10/1987
Highest Qualification : UG / PG / Ph.D.
Designation : Assistant Professor
Experience : Teaching 11 Years Industrial 1 year Total: 12 Years
Program : Electronics & Telecommunication Engineering
Mobile No. : 8482875175
Email : vs.hingmize@gmail.com
Permanent Address (with pin code) : 330/5, Koteswar colony, Shukrawar path, Satara.
Academic Year : 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.

- Lectures, seminars, tutorials, practical's, contact hours undertaken taken as percentage of lectures allocated.
- Lectures or other teaching duties in excess of the UGC norms.
- Preparation and Imparting of knowledge / instruction as per curriculum; syllabus enrichment by providing additional resources to students.
- Use of participatory and innovative teaching-learning methodologies; updating of subject content, course improvement etc.
- Examination duties (Invigilation; question paper setting, evaluation/assessment of answer scripts) as per allotment.

Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1.A	Excellent course file for the subject, teaching plan displayed	20	Lesson plan, Lab plan are attached.	18	18
1.B	Conducting practical lab. / tutorials; work nicely with lab innovations	20	Yes, conducting lab as per lab plan	18	18
1.C	Student Feedback outcome	10	Feedback Prepared	08	08
2.A	Remedial Classes OR Extra lectures for DSE students	4	Yes, Remedial classes taken	02	02
2.B	Content beyond syllabus	6	Beyond syllabus	05	04
3.A	Preparation and Imparting of knowledge / instruction as per curriculum;	10	knowledge as per curriculum.	08	08
3.B	syllabus enrichment by providing additional resources to students	10	Enrichment by providing resource	08	08
4.A	Number of ICT Based Teaching material	5	Yes, Teaching mat-	04	04
4.B	Number of Interactive Courses	5	Yes, interactive day.	04	04
4.C	Effective use of MOODLE	10	MOODLE uses.	08	08
5.A	At Institute Level	15	Institute level yes.	12	10
5.B	At University Level	10	Yes, University level	06	06
Total Score		125			
Minimum API Score Required		75		101	98

Figure 5.8.1.b 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	Guided to industry sponsored projects.	4	4
1.B	Industry tour / visit, Visit to technical Exhibition	4	Arranged industry visits.	4	4
1.C	Arranged the invited talks / Expert lecturers at Department / Institute level	4	Arranged expert lecturers @ Depart.	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	Conducted lectures in GATE	2	2
1.E	extension work through NSS/NCC and other channels, cultural activities	4	Cultural activities and extension work	2	2
2.A	Institute level Responsibilities (Deans/COE: 05, Heads:3, other:02)	5	Dean administrative Head.	4	3
2.B	Event Coordinators (Institute Level: 05, Department Level: 03, Participation: 02)	5	Event coordinator participation.	3	3
2.C	Department Level Responsibilities: 05, Participation: 02	5	Department Responsibilities.	3	3
3.A	Participation in short term training courses, curriculum development, training courses, talks, lectures	5	STTP participated, talks & lectures conducted.	3	3
3.B	Membership of professional associations committees, Boards of Studies, editorial committees of journals / institutional publications.	5	Member of ISTE, IEANG, Springer Publisher.	3	3
3.C	Participation in subject associations, conferences, and seminars without paper presentation.	5	Participation in conference, & seminars.	3	3
Total Score		50			
Minimum API Score Required		20		35	34

Figure 5.8.2.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/ symposia

Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1.A	Refereed Journals*	10 / 2 publication	1	10	10
1.B	Non-refereed but recognized and reputable journals and periodicals, having ISBN/ISSN numbers	10 / 2 Publication	-	-	-
1.C	Conference proceedings as full papers, etc. (Abstracts not to be included)	5 / 2 publication	1	3	3
2.A	Text or Reference Books Published by International Publishers with an established peer review system	10 / sole author, 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 10 / chapter in edited books	-	-	-
2.C	Subject Books by Other local publishers with ISBN/ISSN numbers.	10 / sole author, and 5 / chapter in edited books	-	-	-
2.D	Chapters contributed to edited knowledge based volumes published by International Publishers	5 / 2 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	-	-	-
Sponsored Projects carried out/ ongoing					
3.A	a) Major Projects amount mobilized with grants in between Rs.10,000 to Rs.50,000/-	10 / 2 major project	1	5	5
	b) Minor Projects (Amount mobilized with grants upto Rs.10,000/-)	7 / 2 minor Project	1	3	3
3.B	Consultancy Projects carried out / ongoing: Amount mobilized with upto Rs.15,000/-	10 / consultancy	1	10	10
3.C	Completed projects Quality Evaluation: Completed project Report(Acceptance from funding agency)	7 / each major project and 5 / each minor project	2	06	6
3.D	Projects Outcome / Outputs: Patent/Technology transfer/ Product/Process	7 / each state level output or patent (24 / each for national level)	-	-	-

Figure 5.8.3.b Performance Appraisal Form Page 3

4.A	M.Tech/M.Phil- Degree awarded only	2/each	Yes	2	2
4.B	Ph.D.				
	a) Degree awarded	4/each	Yes	4	4
	b) Thesis submitted	1/each			
5.A	a) Not less than two weeks duration	7/each			
	b) One week duration	5/each	2	10	10
5.B	Participation and Presentation of research papers (oral/poster) In				
	a) International conference	8/each	1	8	8
	b) National conference	6/each	1	6	6
	c) Regional/State level	4/each	-	-	
	d) Local – University/College	2/each	1	2	2
5.C	a) National level	5/each	-	-	
	b) State level	2/each	2	4	4
Total Score		175		73	73
Minimum API Score Required		70			

*Wherever relevant to any specific discipline, the API score for paper in refereed journal would be augmented as follows: (i) indexed journals – by 5 points; (ii) papers with impact factor between 1 and 2 by 10 points; (iii) papers with impact factor between 2 and 5 by 15 points; (iv) papers with impact factor between 5 and 10 by 25 points.

** If a paper presented in Conference/Seminar is published in the form of Proceedings, the points would accrue for the publication (iii (a)) and not under presentation (iii (e)(ii)). Note: The API for joint publications will have to be calculated in the following manner: Of the total score for the relevant category of publication by the concerned teacher, the first/Principal author and the corresponding author/supervisor/mentor of the teacher would share equally 60% of the total points and the remaining 40% would be shared equally by all other authors.

supporting documents, wherever required be attached.

	Category I	Category II	Category III	Total Score
Total Score	125	50	175	350
Minimum API Score Required	75	20	70	165
Total Self-Assessment Score	101	35	73	209
Score by Screening/ selection committee	98	34	73	205

Date: _____
Place: SATARA

Signature of Faculty

Recommendation by screening team (Academic Monitoring Committee):

Faculty member is actively involved in teaching learning process
need to improved in book chapters publications.

Sawade
Member AMC

Sarkar
Head of Department

of Satara
Registrar

Principal
Principal

Figure 5.8.4.b Performance Appraisal Form Page 4

Annual Self-assessment for the Performance-Based Appraisal System (PBAS) 2021 – 2022

2021-2022

Annexure-I
API Proforma for Professor, Associate Professor & Assistant Professor
ACADEMIC PERFORMANCE INDICATORS BASED ON PERFORMANCE BASED
APPRAISAL SYSTEM TO BE SUBMITTED BY EACH APPLICANT FOR APPOINTMENT
OF TEACHERS AND OTHER ACADEMIC STAFF
AS PER UGC REGULATIONS, 2010

Advertisement No.	
Name of the Applicant	Mr. Santosh Gulabrao Chavan
Date of Birth	4 May 1978
Post applied for and Subject	Assistant Professor
Name of the Department	E&TC

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.

S. No.	Nature of Activity	Maximum Score	Self Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1	Lectures, seminars, tutorials, practicals, contact hours undertaken taken as percentage of lectures allocated	50	40	40
2	Lectures or other teaching duties in excess of the UGC norms	10	07	06
3	Preparation and Imparting of knowledge / instruction as per curriculum; syllabus enrichment by providing additional resources to students	20	17	14
4	Use of participatory and innovative teaching-learning methodologies; updating of subject content, course improvement etc	20	15	12
5	Examination duties (Invigilation; question paper setting, evaluation/assessment of answer scripts) as per allotment.	25	18	18
Total Score		125		90
Minimum API Score Required		75		75

Supporting documents, wherever required be attached.

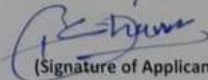

(Signature of Applicant)

Figure 5.8.5 Performance Appraisal Form Page 1

Advertisement No.	
Name of the Applicant	Mr. Santosh Gulabrao Chavan
Date of Birth	4 May 1978
Post applied for and Subject	Assistant Professor
Name of the Department	EETC

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.

S. No.	Nature of Activity	Maximum Score	Self Assessment Score (to be filled by applicant)	Verified API Score (for official use)
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)	20	15	14
2	Contribution to Corporate life and management of the department and institution through participation in academic and administrative committees and responsibilities.	15	10	07
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)	15	08	07
Minimum API Score Required		15		15

Supporting documents, wherever required be attached.


(Signature of Applicant)

Figure 5.8.6 Performance Appraisal Form Page 2

Advertisement No.	
Name of the Applicant	Mr. Santosh Gulabrao Chavan
Date of Birth	4 May 1978
Post applied for and Subject	Assistant Professor
Name of the Department	EATC

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.

S No.	APIs	Engineering/Agriculture/Veterinary Science/Sciences/Medical Sciences	Faculties of Languages Arts/Humanities/Social Sciences/Library/Physical education/Management	Max. points for University and college teacher position	Self Assessment Score (to be filled by applicant)	Verified API Score (for official use)
III A	Research Papers published in:	Refereed Journals *	Refereed Journals*	15 / publication	—	NIL
		Non-refereed but recognized and reputable journals and periodicals, having ISBN/ISSN numbers.	Non-refereed but recognized and reputable journals and periodicals, having ISBN/ISSN numbers.	10 / Publication	—	NIL
		Conference proceedings as full papers, etc. (Abstracts not to be included)	Conference proceedings as full papers, etc. (Abstracts not to be included)	10/ publication	—	NIL
III (B)	Research Publications (books, chapters in books, other than refereed journal articles)	Text or Reference Books Published by International Publishers with an established peer review system	Text or Reference Books Published by International Publishers with an established peer review system	50 /sole author, 10 /chapter in an edited book	—	} NIL
		Subjects Books by National publishers/State and Central Govt. Publications with ISBN/ISSN numbers.	Subject Books by / national level publishers/State and Central Govt. Publications with ISBN/ISSN numbers.	25 /sole author, and 5/ chapter in edited books	—	
		Subject Books by Other local publishers with ISBN/ISSN numbers.	Subject Books by Other local publishers with ISBN/ISSN numbers.	15 / sole author, and 3 / chapter in edited books	—	
		Chapters contributed to edited knowledge based volumes published by International Publishers	Chapters contributed to edited knowledge based volumes published by International Publishers	10 /Chapter	—	
		Chapters in knowledge based volumes by Indian/National level publishers with ISBN/ISSN numbers and with numbers of national and international directories	Chapters in knowledge based volumes in Indian/National level publishers with ISBN/ISSN numbers and with numbers of national and international directories	5 / Chapter	—	
III (C) RESEARCH PROJECTS						
III (C) (i)	Sponsored Projects carried out/ ongoing	(a) Major Projects amount mobilized with grants above 30.0 lakhs	Major Projects amount mobilized with grants above 5.0 lakhs	20 /each Project	—	NIL
		(b) Major Projects amount mobilized with grants above 5.0 lakhs up to 30.00 lakhs	Major Projects Amount mobilized with minimum of Rs. 3.00 lakhs up to Rs. 5.00 lakhs	15 /each Project	—	NIL

Figure 5.8.7 Performance Appraisal Form Page 3

		(c) Minor Projects (Amount mobilized with grants above Rs. 50,000 up to Rs. 5 lakh)	Minor Projects (Amount mobilized with grants above Rs. 25,000 up to Rs. 3 lakh)	10/each Project	-	NIL
III (C) (ii)	Consultancy Projects carried out / ongoing	Amount mobilized with minimum of Rs.10.00 lakh	Amount mobilized with minimum of Rs. 2.0 lakhs Rs. 10.0 lakhs and	10 per every Rs.2.0 lakhs, respectively	-	NIL
III (C) (iii)	Completed projects : Quality Evaluation	Completed project Report(Acceptance from funding agency)	Completed project report (Accepted by funding agency)	20 /each major project and 10 / each minor project	-	NIL
III (C) (iv)	Projects Outcome / Outputs	Patent/Technology transfer/ Product/Process	Major Policy document of Govt. Bodies at Central and State level	30 /each national level output or patent /50 /each for International level,	-	NIL
III (D) RESEARCH GUIDANCE						
III (D) (i)	M.Phil.	Degree awarded only	Degree awarded only	3 /each candidate	-	} NIL
III (D) (ii)	Ph.D	Degree awarded	Degree awarded	10 /each candidate	-	
		Thesis submitted	Thesis submitted	7 /each candidate	-	
III (E) TRAINING COURSES AND CONFERENCE /SEMINAR/WORKSHOP PAPERS						
III (E) (i)	Refresher courses, Methodology workshops, Training, Teaching-Learning-Evaluation Technology Programmes, Soft Skills development Programmes, Faculty Development Programmes (Max. 30 points)	(a) Not less than two weeks duration	(a) Not less than two weeks duration	20/each		
		(b) One week duration	(b) One week duration	10/each	10	10
III (E) (ii)	Papers in Conferences/ Seminars/ workshops etc **	Participation and Presentation of research papers (oral/poster) in	Participation and Presentation of research papers(oral/poster) in		-	} NIL
		a) International conference	a) International conference	10 each	-	
		b) National	b) National	7.5 / each	-	
		c) Regional/State level	c) Regional/State level	5 /each	-	
		d) Local – University/College	d) Local – University/College	3 / each	-	
III (E) (iv)	Invited lectures or presentations for conferences/ symposia	(a) International	(a) International	10 /each	-	} NIL
		(b) National level	(b) National level	5	-	

*Wherever relevant to any specific discipline, the API score for paper in refereed journal would be augmented as follows: (i) indexed journals – by 5 points; (ii) papers with impact factor between 1 and 2 by 10 points; (iii) papers with impact factor between 2 and 5 by 15 points; (iv) papers with impact factor between 5 and 10 by 25 points.

** If a paper presented in Conference/Seminar is published in the form of Proceedings, the points would accrue for the publication (III (a)) and not under presentation (III (e)(ii)).

Note: The API for joint publications will have to be calculated in the following manner: Of the total score for the relevant category of publication by the concerned teacher, the first/Principal author and the corresponding author/supervisor/mentor of the teacher would share equally 60% of the total points and the remaining 40% would be shared equally by all other authors.

Supporting documents, wherever required be attached.

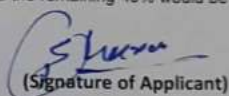

(Signature of Applicant)

Figure 5.8.8 Performance Appraisal Form Page 4

2021-2021

Annexure-I
API Proforma for Professor, Associate Professor & Assistant Professor
ACADEMIC PERFORMANCE INDICATORS BASED ON PERFORMANCE BASED
APPRAISAL SYSTEM TO BE SUBMITTED BY EACH APPLICANT FOR APPOINTMENT
OF TEACHERS AND OTHER ACADEMIC STAFF
AS PER UGC REGULATIONS, 2010

Advertisement No.	
Name of the Applicant	Dayanand Rajivoo Jagtap
Date of Birth	08 July 1986
Post applied for and Subject	Assistant professor.
Name of the Department	E&TC

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.

S. No.	Nature of Activity	Maximum Score	Self Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1	Lectures, seminars, tutorials, practicals, contact hours undertaken taken as percentage of lectures allocated	50	30	30
2	Lectures or other teaching duties in excess of the UGC norms	10	08	08
3	Preparation and Imparting of knowledge / instruction as per curriculum; syllabus enrichment by providing additional resources to students	20	15	08
4	Use of participatory and innovative teaching-learning methodologies; updating of subject content, course improvement etc.	20	10	08
5	Examination duties (Invigilation, question paper setting, evaluation/assessment of answer scripts) as per allotment	25	20	20
Total Score		125	83	47
Minimum API Score Required		75		

Supporting documents, wherever required be attached.



(Signature of Applicant)

Figure 5.8.9 Performance Appraisal Form Page 1

2019-2020

Advertisement No.	
Name of the Applicant	Dayanand Bajirao Jagtap
Date of Birth	08 July 1986
Post applied for and Subject	Assistant Professor.
Name of the Department	E&TC

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.

S. No.	Nature of Activity	Maximum Score	Self Assessment Score (to be filled by applicant)	Verified API Score (for official use)
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)	20	15	15
2	Contribution to Corporate life and management of the department and institution through participation in academic and administrative committees and responsibilities.	15	10	10
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)	15	10	08
Minimum API Score Required		15	35	33

Supporting documents, wherever required be attached.

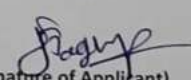

 (Signature of Applicant)

Figure 5.8.10 Performance Appraisal Form Page 2

Advertisement No.	
Name of the Applicant	Dayanand Rajivoo Jagtap
Date of Birth	08 July 1986
Post applied for and Subject	Assistant Professor
Name of the Department	E&TE

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.

S No.	APIs	Engineering/Agriculture/Veterinary Science/Sciences/Medical Sciences	Faculties of Languages Arts/Humanities/Social Sciences/Library/Physical education/Management	Max. points for University and college teacher position	Self Assessment Score (to be filled by applicant)	Verified API Score (for official use)
III A	Research Papers published in:	Refereed Journals *	Refereed Journals*	15 / publication	00	08
		Non-refereed but recognized and reputable journals and periodicals, having ISBN/ISSN numbers.	Non-refereed but recognized and reputable journals and periodicals, having ISBN/ISSN numbers.	10 / Publication	08	06
		Conference proceedings as full papers, etc. (Abstracts not to be included)	Conference proceedings as full papers, etc. (Abstracts not to be included)	10/ publication	—	—
III (B)	Research Publications (books, chapters in books, other than refereed journal articles)	Text or Reference Books Published by International Publishers with an established peer review system	Text or Reference Books Published by International Publishers with an established peer review system	50 /sole author; 10 /chapter in an edited book	—	—
		Subjects Books by National publishers/State and Central Govt. Publications with ISBN/ISSN numbers.	Subject Books by / national level publishers/State and Central Govt. Publications with ISBN/ISSN numbers.	25 /sole author, and 5/ chapter in edited books	—	—
		Subject Books by Other local publishers with ISBN/ISSN numbers.	Subject Books by Other local publishers with ISBN/ISSN numbers.	15 / sole author, and 3 / chapter in edited books	—	—
		Chapters contributed to edited knowledge based volumes published by International Publishers	Chapters contributed to edited knowledge based volumes published by International Publishers	10 /Chapter	—	—
		Chapters in knowledge based volumes by Indian/National level publishers with ISBN/ISSN numbers and with numbers of national and international directories	Chapters in knowledge based volumes in Indian/National level publishers with ISBN/ISSN numbers and with numbers of national and international directories	5 / Chapter	—	—
III (C)	RESEARCH PROJECTS					
III (C) (i)	Sponsored Projects carried out/ ongoing	(a) Major Projects amount mobilized with grants above 30.0 lakhs	Major Projects amount mobilized with grants above 5.0 lakhs	20 /each Project	—	—
		(b) Major Projects amount mobilized with grants above 5.0 lakhs up to 30.00 lakhs	Major Projects Amount mobilized with minimum of Rs. 3.00 lakhs up to Rs. 5.00 lakhs	15 /each Project	—	—

Figure 5.8.11 Performance Appraisal Form Page 3

		(c) Minor Projects (Amount mobilized with grants above Rs. 50,000 up to Rs. 5 lakh)	Minor Projects (Amount mobilized with grants above Rs. 25,000 up to Rs. 3 lakh)	10/each Project		
III (C) (ii)	Consultancy Projects carried out / ongoing	Amount mobilized with minimum of Rs.10.00 lakh	Amount mobilized with minimum of Rs. 2.0 lakhs Rs.10.0 lakhs and	10 per every Rs.2.0 lakhs, respectively		
III (C) (iii)	Completed projects Quality Evaluation	Completed project Report(Acceptance from funding agency)	Completed project report (Accepted by funding agency)	20 /each major project and 10 / each minor project		
III (C) (iv)	Projects Outcome / Outputs	Patent/Technology transfer/ Product/Process	Major Policy document of Govt. Bodies at Central and State level	30 / each national level output or patent /50 /each for international level.		
III (D)	RESEARCH GUIDANCE					
III (D) (i)	M.Phil.	Degree awarded only	Degree awarded only	3 /each candidate		
III (D) (ii)	Ph.D	Degree awarded	Degree awarded	10 /each candidate		
		Thesis submitted	Thesis submitted	7 /each candidate		
III (E)	TRAINING COURSES AND CONFERENCE /SEMINAR/WORKSHOP PAPERS					
III (E) (i)	Refresher courses, Methodology workshops, Training, Teaching-Learning-Evaluation Technology Programmes, Soft Skills development Programmes, Faculty Development Programmes (Max. 30 points)	(a) Not less than two weeks duration	(a) Not less than two weeks duration	20/each		
		(b) One week duration	(b) One week duration	10/each		
III (E) (ii)	Papers in Conferences/ Seminars/ workshops etc.**	Participation and Presentation of research papers (oral/poster) in	Participation and Presentation of research papers(oral/poster) in		08	06
		a) International conference	a) International conference	10 each		
		b) National	b) National	7.5 / each		
		c) Regional/State level	c) Regional/State level	5 /each		
		d) Local – University/College	d) Local – University/College	3 / each		
III (E) (iv)	Invited lectures or presentations for conferences/ symposia	(a) International	(a) International	10 /each		
		(b) National level	(b) National level	5	16	12

*Wherever relevant to any specific discipline, the API score for paper in refereed journal would be augmented as follows: (i) indexed journals – by 5 points; (ii) papers with impact factor between 1 and 2 by 10 points; (iii) papers with impact factor between 2 and 5 by 15 points; (iv) papers with impact factor between 5 and 10 by 25 points.

** If a paper presented in Conference/Seminar is published in the form of Proceedings, the points would accrue for the publication (III (a)) and not under presentation (III (e)(ii)).

Note: The API for joint publications will have to be calculated in the following manner: Of the total score for the relevant category of publication by the concerned teacher, the first/Principal author and the corresponding author/supervisor/mentor of the teacher would share equally 60% of the total points and the remaining 40% would be shared equally by all other authors.

Supporting documents, wherever required be attached.

[Signature]
(Signature of Applicant)

Figure 5.8.12 Performance Appraisal Form Page 4

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/emmeritus 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 × 3 years = 9 marks)

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

Sr. No.	Academic Year	Name of the Faculty	Class	Duration in Hours
1	2020 - 2021	Ms. Shaikh Samina Khalid Najama	SY B.Tech (E&TC)	50
2	2021 – 2022	Ms. Shaikh Samina Khalid Najama	TY B.Tech (E&TC)	54
3	2022 - 2023	Mr. Nitin Deshmane	Final Year B.Tech (E&TC)	24

CRITERION 06	Facilities and Technical Support	80
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6.1 Adequate and well-equipped laboratories, and technical manpower (30)

E&TC Engineering Department provides adequate & well-equipped laboratories & technical manpower as per the norms. Some major equipment in each laboratories mentioned in table no. 6.1 & also mentioned technical staffs details

Table 6.1: Details of Laboratories, Equipment and Technical Manpower

S. N	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the Important equipment	Weekly utilization status	Name of the technical staff	Technical Manpower support	
						Designation	Qualification
1	ALEXANDER GRAHAM BELL(PW 213) [Communication & Measurement Lab]	20	1. Single power supply 2. Function generator 3. Spectrum Analyzer 4. Cathode Ray Oscilloscope 5. Digital Storage Oscilloscope 6. Dual trace CRO 7. Project Board 8. Temp. Transducer Kit 9. Strain Guage Kit0 10. Wein Bridge Kit 11. AM/FM trans receiver 12. PAM	24 Hr.	Mrs.A.S. Patel	Lab Assistant	Diploma(E&TC)

2	HEINRICH HERTZ (PW 210) [Antenna Wave Propagation & Microwave Engineering Lab]	20	1. Ats Antenna Trainer Rt Radar Trainer 2. Advanced Motorized Antenna Trainer 3. Microwave Test Bench	24 Hr.	Miss. Y.Z. Mujawar	Lab Assistant	Diploma (E&T C)
3	ROBERT ALLEN PEASE (PW 208) [Basic Electronics Lab]	20	1. 20MHz Dual Trace 2. CRO, 3. 1MHz Function Generator 4. 3MHz Function Generator 5. 10 MHz Function Gen 6. Digital Multimeter 7. LCR Meter, 8. FPGA CPLD Trainer Kit 9. LPC 2148 RTOS	24 Hr.	Mrs. A.S. Patel	Lab Assistant	Diploma (E&T C)
4	SALLY JEAN FLOYD (PW 211) [Simulation Lab]	20	1. Desktop Switch 2. PC	24Hr.	Miss. G.P. Pawar	Lab Assistant	Bcom
5	ROBERT NOYCE (PW 209) [Digital Electronics]	20	1. DCL03 TDM PCM kit 2. ADCL07 DPCM & ADPCM kit,		Miss. Y.Z. Mujawar	Lab Assistant	Diploma (E&T C)

	&Microprocessor Lab]		3. AM MOD/DEMOD 4. Fiber Optic Kit 5.30MH Dual Trace CRO 6. Digital Lab Trainer Kit 7.20 MHZ CRO, 8.3MHZ Function 9. Generator 10.8085 kit 11. Stepper Motor Kit	24Hr.			
6	ROBERT ALLEN PEASE(PW208) [Electronic Devices and Circuits Lab]	20	1. Single Power Supply 2. Function Generator 3. Cathode Ray Oscilloscope 4. Digital Storage Oscilloscope 5. Colour TV Trainer	24Hr.	Miss.G.P. Pawar	Lab Assistant	Diploma(E&T C)

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

(25)

Sr No	Facility Name	Details	Reasons for creating Facilities	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	Internet Facility	Internet facility is available in	Seminar/Mini-projects/		Courses specified in	PO5, PO8, PO 10 &

		each laboratory and WiFi facility in college campus	Assignments/Self Learning	Through out year	Curriculum, to access Moodle	PO12 PSOs 1
2	Smart Class Room	<ul style="list-style-type: none"> E-board & projector facility with a seating capacity of 60. Fully equipped with furniture and teaching aids 	<ul style="list-style-type: none"> Smart classroom is used for animated visuals and video lectures. These visually attractive methods of teaching are sometimes more interesting as compared to teaching in a classroom. 	Through out the semester	The graphs, design, models, simulation, and fabrication of difficult subjects can be easily analyzed and visualized	PO-1, PO-2, PO-3, PO-4, PO-5, PSO-1
3	NPTEL Local Chapter	Institute having NPTEL Local Chapter & server of NPTEL Content	<ul style="list-style-type: none"> To keep student abreast with latest technology To provide national level platform to student 	Through out year	To grasp important concept of various subjects and modern tools used in computer science and engineering.	PO 1,PO2,P O3,PO5 PSO1
4	Digital Library	IEEE Xplore Access	<ul style="list-style-type: none"> To keep student abreast with latest technology To provide national level platform to student 	Through out year	Project work	PO1, PO2, PO3, PO5, PO12 PSOs 1

5.	Surveillance Cameras for exam rooms	IP cameras	<ul style="list-style-type: none"> To enhance the security of the department 	36 Hours/Week	Security purpose	PO5,PS Os2
6	Language Laboratory	Institute having separate language laboratory for communication subjects like English.	Effective teaching learning for said subject and effective English communication	Throughout year	Communication Skills, Spoken Tutorial	PO5, PO8, PO10 & PO12 PSO 1
7	Moodle Learning Management System	Institute having separate Moodle learning management system to provide digital content.	For online digital record maintenance like attendance, examination results, feedback For sharing digital study material	Throughout year	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.	Throughout year	Courses specified in Curriculum	PO1, PO2, PO3, PO5 PSO1
9	Departmental Library	The departmental library has a collection of textbooks, reference books, project/seminar report	To provide academic support to students. <ul style="list-style-type: none"> To provide advanced information on the seminars and projects. 	Throughout the semester	Student learning process	PO1, PO-2, PO-4, PSO-1, PSO-2

10	Virtual Lab	Perform online experiments as an additional facility through a virtual lab	Providing online practical exposure to the students	Through out the semester	Employability and entrepreneurship	PO1,PO2,PO3,PO5,PO12
11	Central Computing Facility	Ethernet/WiFi	Facility to staff and students for enhancing Teaching Learning	36 Hours/Week	Courses specified in Curriculum	PO5, PO8,PO10 & PO12 PSO 1

6.3 Laboratories: Maintenance and Overall Ambience

(10)

6.3.1 Maintenance and Records:

Department has Full furnished State of Art laboratories with well-equipped equipment which shall cater to UG courses as per curriculum requirements. The Department is equipped with sophisticated laboratories and state of art instruments to satisfy the curriculum requirements. All laboratories are spacious, well ventilated, and provided with adequate electrical fittings to take care of the ambience. Salient features regarding maintenance and ambience of laboratory facilities are as follows.

1) Maintenance in Laboratories:-

- All the equipment in laboratories is maintained regularly by the concerned lab technician under the supervision of faculty members.
- Regular maintenance of equipment is carried out before the commencement of the academic year. Servicing of equipment is also done whenever necessary.
- Stock registers are maintained in each laboratory and verified regularly.
- The maintenance register is maintained separately for each laboratory to maintain the record, repair, and servicing if carried out for the equipment.
- All the essential software used in computer labs is installed and maintained.

- Technical assistants are available for the maintenance of the equipment and software in labs.

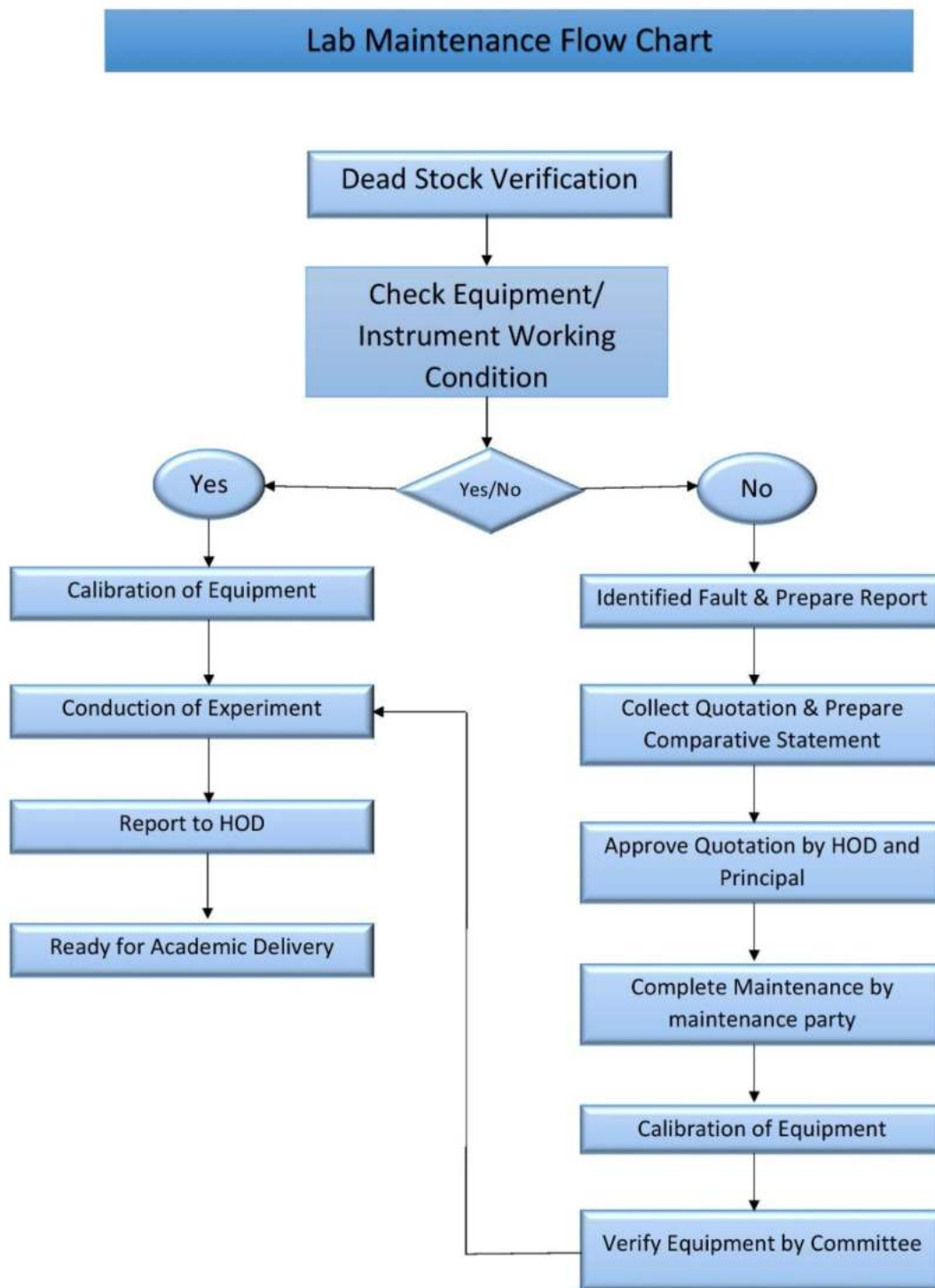


Fig. 6.3.1 Flow Chart of Lab Maintenance Process

Date: 5/05/2023 Batch - T₁
 Friday TY. E&TC

Implementation of small application program using MCS 51

Pr. No.	Name	Sign	PC No.
2019	Sampada chorage	Ahorage	15
2004	Rikshali katker	Rikshali	16
2015	Peatiksha Babae	Babae	14
2001	Kumbhar Aadash	K	013
2002	Kanase Abhishek	Kanase	12
2006	Shirke Atharva	Shirke	11
2018	Deshmukh Sakshi	Deshmukh	10
2007	Jadhav dhanshvi	Jadhav	9
2016	Nikam Prerana	Nikam	8
2005	Malusare Ankita	Malusare	7
2010	Pawar Nikita	Pawar	6
2008	shete Harshada	shete	5
2012	Patil Pooja	Patil	4
2020	Panhalkar Sanket	Panhalkar	2

Head E & TC Engg. Department
 PARVIND GAVALI COLLEGE OF ENGINEERING, SATARA
 Panmalawadi (Vare)

Applications of 8051 implemented, Generate a small LED running effect with the help of simulator

Fig.6.3.a Sample Copy of Student entry Register

A] Sample of Dead Stock Register

Samarth Educational Trust, Satara		DEAD STOCK				
Name of Item: <u>Antenna Trainer</u>						
Nomenclature: <u>ATS</u>						
Sr. No.	Bill No. & Date	Details of the supplier	Description of Material	Rate	Quantity Purchased	Cost (including taxes)
1.	12 1/7/2012	Procom Enterprises c/o Ashant Electronics Mkt. Sainik Housing Society, Near Thozar Chawk, Ichalkaranji 416 115 Mob: 9422628628	FALCON ATS-A Advanced Motorised Antenna Trainer Accessories 1) Receiver Synthesizer 2) Generator 50-8.60MHz 3) Antenna Stand 4) Adaptor 5) Sniffex Probe 6) Directional coupler 7) USB Dongle 8) Antennas i) Dipole L, 1/2 L, 2/3 L Folded Dipole 1/2 L ii) Yagi 3, 5, 7 Element iii) Yagi 3 Element Folded iv) Helical v) Loop vi) Telescope Dipole vii) Shielded Loop viii) Log Periodic ix) Slot 1/2 x) Quad 1/4 xi) Vertical 1/4 xii) Endfire 1/2 xiii) Broadside 1/2 xiv) Discone	99000	01	190293.75

TRUST, SATARA REGISTER		Room Number	1		
Reference					
Dead Stock No	Indent No & date	Signature of Lab Assistant	Signature of Lab Incharge	Signature of HOD	Remarks
AGCE/2012-13	1702				
ATS-03 (11)	2/7/2012	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
ET-01/01-01					Principal Arvind Govil College of Engineering Parbhalewad, Satara

Fig.6.3.b Sample Copy of Dead Stock Register

C] Sample of Consumable Components Register

SAMARTH EDUCATIONAL CONSUMABLE							TRUST, SATARA REGISTER					
Name of Item : _____							Reference : _____					
Nomenclature : _____							01					
Sr. No.	Bill No. & Date	Details of the supplier	Description of Material	Rate	Quantity Purchased	Cost (including taxes)	Distribution Details	Indent No & Date	Signature of Lab Assistant	Signature of Lab Incharge	Signature of HOD	Remarks
1)	963 3-3-18	Galaxy Electronics	7408	15	2	30						
			7432	12	2	24						
			7486	18	2	36						
			7448	20	2	40						
			7451	20	2	40						
			7454	25	2	70						
			LM 317	20	2	40						
			723	25	2	50						
			BC 107	15	5	75						
			BC 115	20	2	40						
			2N6292	20	2	40						
2)	946 3-3-18	Galaxy electronics	1/4 W Resistor	100	12	12						
			47uF	5	2	10						
			10k cap	2	2	4						
			Ce 1	10	2	20						
3)	316 14-10-18	D.G. electronics	Hookup wire	50	9 mtr	15						
			IC 74150	50	5	250						
			7402	12	20	240						
			7447	32	5	160						
			7473	20	10	200						
			7486	20	2	40						
			7400	12	20	240						
			7409	12	15	180						
			7432	10	15	150						

Fig.6.3.c Sample Copy of Consumable Components

D] Lab Manual

Arvind Gavali College of Engineering
Department of Electronics and Communication Engineering.

LAB No. :207	LAB Name : Electronic Devices and Circuits Lab
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LIST OF EXPERIMENTS.

Sr. No	Title of Experiment
1.	JFETDRAIN&TRANSFER CHARACTERISTICS
2.	JFETAMPLIFIER
3.	MOSFETCHARACTERISTICS
4.	MOSFETAMPLIFIER
5.	RCPHASESHIFTOSCILLATOR
6.	COLPITTSOSCILLATOR
7.	REGULATEDPOWERSUPPLY(FIXED).
8.	REGULATEDPOWERSUPPLY(ADJUSTABLE)
9.	ASTABLE MULTIVIBRATORUSING555 TIMER
10.	BISTABLEMULTIVIBRATOR USING555 TIMER



Department of Electronics and Telecommunication Engineering
Page 1

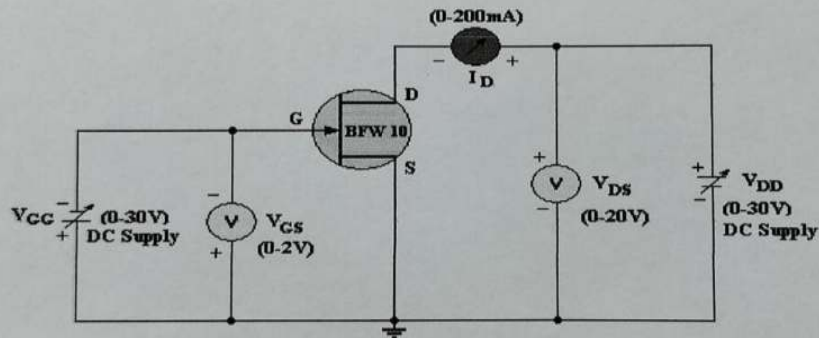
Fig.6.3 d List of Experiments

EXPERIMENT NO:1**TITLE: JFET DRAIN & TRANSFER CHARACTERISTICS (COMMON SOURCE)****AIM:** To conduct an experiment on a given JFET and obtain

- 1) Drain characteristics
- 2) Transfer Characteristics.
- 3) To find r_d , g_m , and μ from the characteristics.

APPARATUS:

Sr.No	Name	Range/ Value	Quantity
1	Dual Regulated D.C Power supply	(0-30Volts)	1
2	JFET	BFW 10 or 11	1
3	DC Ammeter	(0-20mA)	1
4	DC Voltmeter	(0-2V)(0-20V)	Each 1
5	BreadBoard and Connecting wires	--	1 Set

CIRCUIT DIAGRAM:**JFET Drain Characteristics****THEORY:**

We will consider the following two characteristics:

- (i) Drain characteristic: It gives relation between I_D and V_{DS} for different values of V_{GS} (which is called running variable).
- (ii) Transfer characteristic: It gives relation between I_D and V_{GS} for different values of V_{DS} .

**Fig.6.3 d Lab Manual**

E] Maintenance History Card

SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA
 NAAC Accredited
HISTORY CARD Card No. 01

Name of Department: Electronics and Telecommunication Engg. Laboratory : Analog and Digital Comm (228)
 Name of Equipment: CRO-20MHz Dual Trace CRO Date of Purchase: 01-07-2011
 Total Cost: 12600/- Name & Address of Supplier: AKS Enterprises & Deepak Dev Kolhe
 Dead Stock No.: AGCE/2011-12/ CRO-03(07)/ ET-04/04-02(01) Hospital Lane, DF Road, Pune-411007
TEL: 020 25882196

Sr No.	Bill No. & Date	Nature of Maintenance	Particulars of Maintenance	Name of the Maintenance Party	Expenditure (Rs.)	Sign. of Concerned Staff	HOD Sign
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	ET/04/11-12 17/12/11	Regular maintenance	No trace No only Dot, CRT, Issues (CRT Problem). Back panel not insured	AKS Enterprises Pune-411007 [5 th March 2023]	800/-	SMK	Jantel
2							
3							
4							
5							
6							

Fig.6.3 e) Sample of Maintenance History

From,
Mrs. Sucharitakandarkar.
Department of Electronics and
Telecommunication Engg., AGCE Satara

To,
The Principal,
AGCE Satara

Sub: Maintenance of Equipments from Lab 228 (Analog and Digital communication Lab)

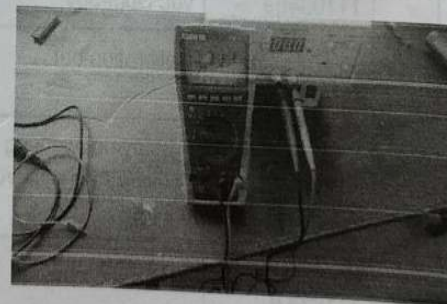
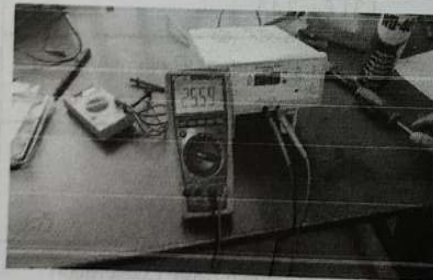
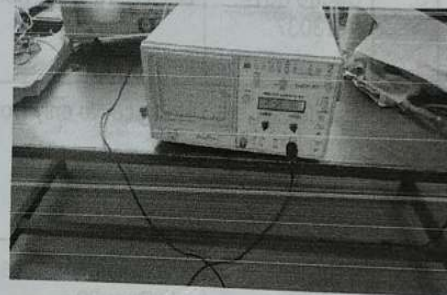
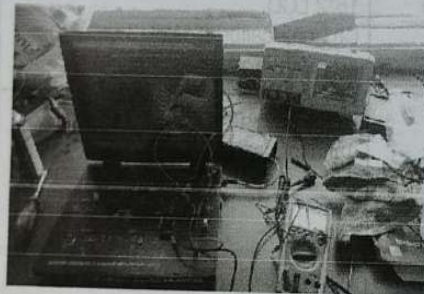
Respected Sir,
I have conducted the inspection of maintenance of laboratory 228 on 5th March 2023

List of Equipments with Report:

Sr. No.	Model No. with Sr. No. of Model	Problem /Defect	Action Taken
1.	Caddo801-07113049	Both channel calibration out mixer signal	Calibration 1kV 3vpp.WD-40
2.	Caddo 801-07113051	Trace center not move to up down. Y. and y amplifier problem.	Y amplifier card-1,calibran 1kV 3vpp. WD-40,but (ch1/ch2 encoder ship) v/d t/d knob
3.	Caddo 801-0713037	Display 16*2 not workly	16*2 LCD. Ch1 ch2/calibran 1kV 3vpp WD-40,(V/D T/D encoder knob)
4.	✓ Caddo 801-(2011-12(CRO 03(07) ET-01/05/02(02)	No trace No only Dot	CRT. Issus (CRT problem). Back panel,notinsurt
5.	ST4073-11103469	V/C calibration out show 28 vdc Dpm-30v;	WD-40, calibration voltage/current. 31.6v. 2.1A
6.	ST4073-11103470	Calibration out.	32vpc 2A current. Calibration done.
7.	ST4073-11103471	Display not working but multimeter shows voltage o/p ok	IC 7109-11
8.	ST4073-11103476	Calibration out.	Red banana socket-1,calibration done. 32vdc,2A
9.	ST2110-05111440	Sine wave function genrater not workly	IC TLO 72-1. Dip switch in side nottuch proper ok



10.	ST2303-0711637 LVDT.	Display not working fluobran.g	LVDT D'pm pending
11.	Coddo 4061-03113571	Relay chatorng voltage problem.	Key messing cap/freq-000
12.	Caddo 4061-03113565	1)Sine wave calibration 2)menu key messing	Sine wave 20vpp. But 0 the wave.not properly calibran but fa.-use
13.	Caddo 4061-05113584	Sine wave 15vpp.(key messing cap. Freq.)	Sine wave 20vpp,WD-40,calibran ok
14.	Caddo 4061-03113568	Sine wave calibracation out.	Sine wave 20vpp.calibration WD-40 ok
15.	Caddo 4061-03113570	NO o/p Display not working	Ponding check to microcontroller but display not working
16.	Caddo 4061-03113583	No o/p	Test but in side PCB buring that way not possible reaper
17.	ST 4073-11103479	Calibran out	32vdc.2A current set done



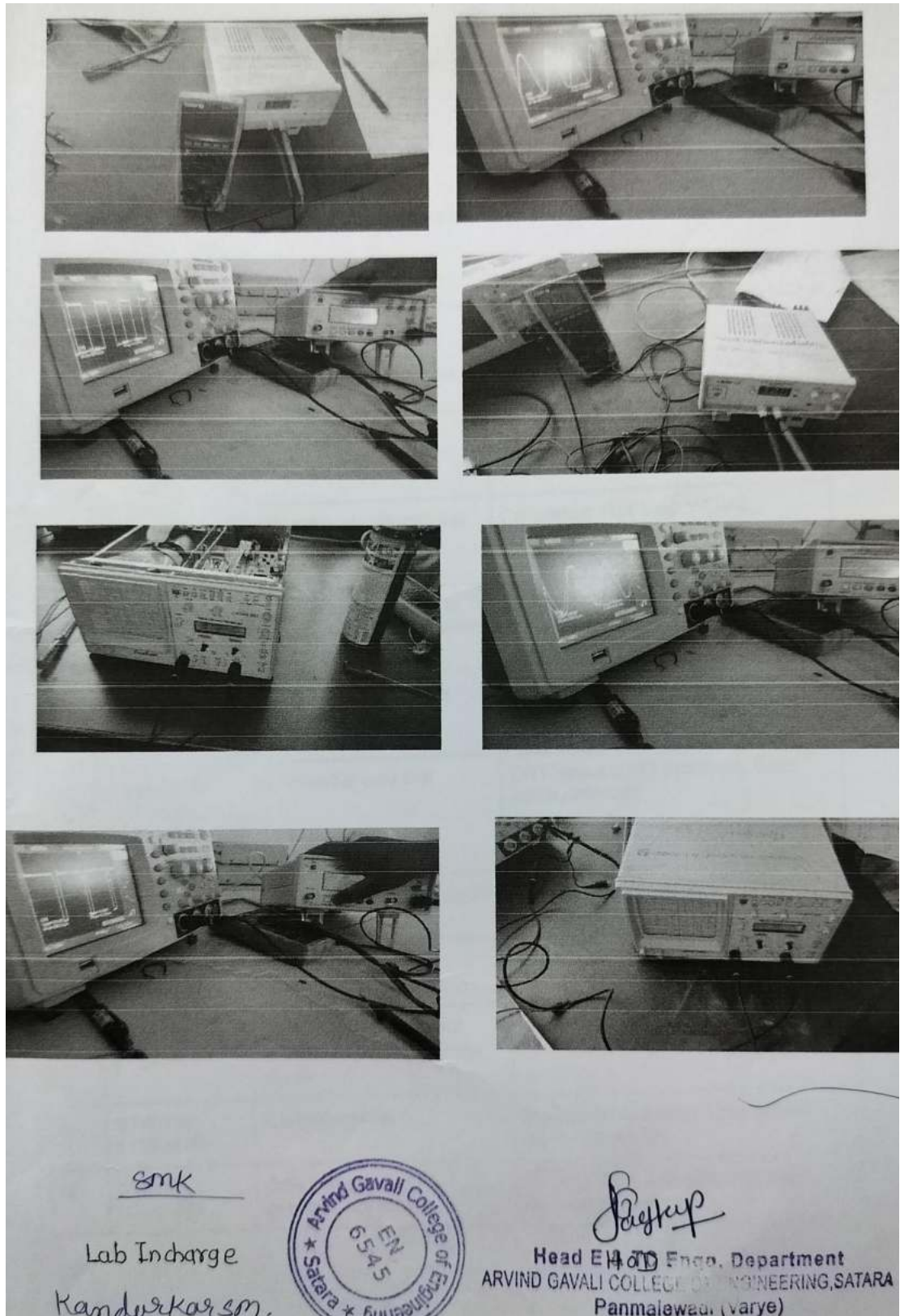


Fig.6.3 e) Sample of Lab Maintenance Report


F) Lab Timetable

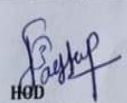
Samarth Education Trust's
Arvind Gavali College of Engineering
 At- Panmalewadi, Post-Varye, Satara.

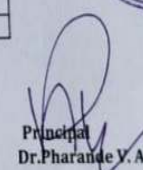
Department of Electronics & Telecommunication Engg **Academic Year 2023-24**

DAY	TIME CLASS	9.30 -10.25	10.25-11.20	11.20-12.15	12.15-01.10	01.00-1.55	1.55-2.50	2.50-3.10	3.10-4.05	04.05-05.00	
MONDAY											
TUESDAY	SE (SW206)									B2-ESD(Lab) (MDP)	
	TE (SW208)					B1-ESD(Lab) (MDP)				S1-DE LAB (JSP)	
WEDNESDAY	SE (SW206)	S2-DE LAB(JSP)						Tea Break			
	TE (SW208)								B3-ESD(Lab) (MDP)		
THURSDAY	SE (SW206)										
	TE (SW208)										
FRIDAY	SE (SW206)										
	TE (SW208)										

SY B.Tech (206)	Btech(207)
EM-III , Engineering Mathematics – III - Ms. Shinde S.S	Dcom-Digital Communication, JDB- Prof. Jagtap D.B.
EDC- Electronic Devices & Circuits - Prof.Mulik A.A	Group A-Wireless Sensor Networks(WSN) CSG- Prof. Chavan S.G.
DE-Digital Electronics -Prof.Jadhav S.P	Group B-Embedded System Design(ESD) MDP-Prof.Patil M.D.
EM-III-Electrical Machines and Instruments, KSM-Prof.Kandarkar S.M	Group C- Mechatronics(MTX) NSB- Prof.Nalawade S.B.
Seminar -I - Dr.Mirajkar G.S	Financial Management(FM) Mr.Gaikwad


 AMC Co-ordinator
 Mrs. Kandarkar S. M.


 HOD
 Mr. Jagtap D.B.


 Principal
 Dr. Pharanade V. A.



Head E & TC Engg. Department
 ARVIND GAVALI COLLEGE OF ENGINEERING SATARA

Fig.6.3 f) Sample of Lab Timetable

Overall Ambiance:

Ambiance has been given special importance for the students to feel refreshed when they enter the campus.

- As per the university, curriculum departments have well-equipped labs.
- All laboratories are acoustics having sufficient natural light and proper ventilation with tubes and fan arrangement.
- For proper ventilation and natural light, sufficient numbers of windows are available in every laboratory and classroom.
- All labs are open for students and faculties for projects and research.
- Laboratory manuals are provided to students.
- Labs are equipped with green/whiteboard facilities.
- Fire extinguishers are provided on the entire floor.
- Virtual labs are available for additional experimental work.
- Trees are grown on the campus for good ambiance and greenery

6.4 Project Laboratories**(05)**

The ground floor and Basement are dedicated spaces allotted for project work with basic manufacturing facilities. Following are the lab-wise facilities available for project work which ensures felicitation of project stages like design, manufacturing, and testing.

- Technical support for the students is available throughout the day.
- All labs are open for the students to completion of their projects throughout the day.
- MOU with industries to support students

The Electronics and Communication department has a project laboratory with adequate facilities to help graduate students to complete their project design and fabrication. The project/Research lab is exclusively for the research and project work with the hardware and software facilities listed below.

Sr. No.	Name of the Facilities	Utilization
1.	Project Lab	UG students and Faculty members utilize them for their mini projects, major projects, and research activities.

Project Lab Utilization:

- Project labs are utilized for project work by students.
- The students utilize the lab facility for development of mini and major projects
- In the free time the students utilize the lab facilities for surfing on internet to gain new knowledge, ideas regarding project work.



Fig.6.3. a Project Demonstration

Hardware/ Software Facilities:

S. No.	Name of the Facilities
1.	Testing Facilities are available in Antenna and microwave labs.
2.	Xilinx open-source software for designing and verification of codes of digital design
3.	PSPICE and LT –Spice open-source software for implementation of power circuits.
4.	Multi-Sim open-source software
5.	MATLAB licensed version software.
6.	Scientific 3MHz Function Generator Supply
7.	100 MHz 2 channel Digital storage oscilloscope
8.	Equipment for PCB Fabrication, Drilling Machine, Grinder, Winding Machine, Printer, etc.
9.	Project seminar hall which includes a projector, PC system, software, and audio systems.
10.	Research and Development Lab
11.	Internet of 300 Mbps and Wi-Fi of

6.5 Safety Measures in Laboratories

(10)

Role of Laboratory Practice in Engineering Education

AGCOE seeks to be a leader in environmental, health, and safety excellence in its facility management, teaching, and research. To achieve this objective, suitable rules and procedures must be created and implemented to guarantee that this community operates in a setting free from known threats. Faculty, staff, and students are all accountable for adhering to rules and regulations. They are also urged to adopt behaviors that promote health, safety, and environmental responsibility. The education of engineering is incomplete without laboratory work. The overall objective of engineering education is to train students for the practice of engineering, particularly to address the types of societal challenges. The laboratory is the perfect setting for active learning, and it has long been a crucial component of professional and engineering undergraduate education. Students working in a real-world setting collaborate in teams, talk about the design of experiments, and exchange perspectives on the interpretation and analysis of results. The majority of engineering education was laboratory-based, and it calls for the active application of acquired knowledge and abilities.

Laboratory Safety in AGCOE

- There are adequate safety and hygienic conditions in place throughout the workshop.
- The Lab is regularly maintained in terms of cleanliness and housekeeping.
- Safe use and upkeep of lab equipment are essential for lab security.
- To guarantee adequate upkeep, lab equipment is frequently inspected.
- The Lab has enough room for simple and unrestricted movement.
- There is adequate lighting in the lab.
- Electrical devices are routinely inspected to ensure that they are in good working order and that any power cables don't have frayed ends or exposed wiring for the laboratory's safety.
- Both the HOD Cabin and the workshop include first aid kits. This facility is open during academic hours. A hospital (**Sawakar Ayurvedic Hospital**) is close to the college campus and its services can be accessed in an emergency if there are significant injuries or accidents. For the same, an ambulance is always on call at the campus.

- Students are instructed and given safety information in the form of Dos and Don'ts.
- Fire extinguishers are located in the hallway and certain fire-sensitive labs, such as chemistry and workshop.

Table 6.5: Details of Safety Measures in Laboratories

Sr No	Laboratory Name	Safety Measure
1	ALEXANDER GRAHAM BELL(PW 213) [Communication & Measurement Lab]	1. Do's and don'ts are displayed. 2. First aid box is available in the department. 3. A fire extinguisher is available on the floor. 4. Make sure your mobile is switched off before entering the lab. 5. User instruction manuals are provided for experiments. 6. Make sure that equipment working on electrical power is grounded properly. 7. Properly handlings of electronic components and kits are required. 8. Equipment should be placed properly after the completion of experiments. 9. Students should aware of the operation of the knobs of the measuring instruments. 10. Students should aware of the operation of the knobs of the measuring instruments.
2	HEINRICH HERTZ (PW 210) [Antenna Wave Propagation &	1. Do's and don'ts are displayed 2. First aid box is kept in the department. 3. A fire extinguisher is available on the floor.

	Microwave Engineering Lab]	<p>4. Use of cell phones is strictly prohibited.</p> <p>5. Clean and structured laboratories are maintained.</p> <p>6. The switching of the power supply has been handled only by an authorized person.</p> <p>7. User instruction manuals are provided for experiments.</p> <p>8. Equipment should be placed properly after completion of experiments</p>
3	ROBERT ALLEN PEASE(PW 208) [Basic Electronics Lab]	<p>1. Do's and don'ts are displayed.</p> <p>2. First aid box is available in the department.</p> <p>3. A fire extinguisher is available on the floor.</p> <p>4. Make sure your mobile is switched off before entering the lab.</p> <p>5. The switching of the power supply has been handled only by an authorized person.</p> <p>6. Faulty apparatus are identified and serviced at the earliest.</p> <p>7. Circuits are properly grounded for the power source.</p> <p>8. Switch on the power supply after checking connections and handle the trainer kit carefully.</p> <p>9. User instruction manuals are provided for experiments.</p> <p>10. Properly handling of electronic components is required.</p>

		<p>11. Equipment should be placed properly after the completion of experiments.</p> <p>12. The $\pm 15V$ supply or specified voltage level should not be exceeded since this will damage the ICs used during the experiments.</p>
4	SALLY JEAN FLOYD(PW 211) [Simulation Lab]	<p>1. Do's and don'ts are displayed.</p> <p>2. First aid box is available in the department.</p> <p>3. A fire extinguisher is available in the floor.</p> <p>4. Make sure your mobile is switched off before entering the lab.</p> <p>5. You may use the computers in the lab only when a teacher is present.</p> <p>6. Please place your bags at the front of the lab.</p> <p>7. Do not eat or drink in the lab.</p> <p>8. Keep the lab clean and neat at all times.</p> <p>9. Use only the computer you are assigned to.</p> <p>10. Report any hardware fault immediately to your teacher. Never attempt to dismantle the different parts of the computer.</p> <p>11. Each student must log in to his/her account. No sharing of accounts is permitted.</p> <p>12. The computers are for your academic use. Playing computer games for entertainment is strictly not allowed.</p> <p>13. Shut down the computer properly after use.</p>

		14. Do not charge your mobile devices in the lab.
5	ROBERT NOYCE (PW 209) [Digital Electronics &Microprocessor Lab]	<ol style="list-style-type: none"> 1. Do's and don'ts are displayed 2. First aid box is kept in the department. 3. A fire extinguisher is available in the floor. 4. Clean and structured laboratories are maintained. 5. Use of cell phones is strictly prohibited. 6. User instruction manuals are provided for experiments. 7. Switch on the power supply after checking connections and handle the trainer kit carefully. 8. Kits should be placed properly after completion of practical 9. Students should be aware of interfacing ports. 10. At the time of programming on the trainer kit keyboard should be handled properly.
6	ROBERT ALLEN PEASE(PW208) [Electronic Devices and Circuits Lab]	<ol style="list-style-type: none"> 1. Do's and don'ts are displayed. 2. A fire extinguisher is available in the floor. 3. First aid box is available in the department. 4. Use of cell phones is strictly prohibited. 5. The specified voltage level VCC should not be exceeded since this will damage the ICs used during the experiments. (e.g. Do not apply voltage more than ± 15 V to IC 741) 6. Switch on the power supply after checking connections and handle the trainer kit carefully.

		<p>7. The switching of the power supply has been handled only by an authorized person.</p> <p>8. Faulty in apparatus is identified and serviced at the earliest. 9. Circuits are properly grounded concerning the power source.</p> <p>10. Properly handlings of electronic components and kits are required.</p> <p>11. Equipment should be placed properly after the completion of experiments.</p>
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CRITERION 07	Continuous Improvement	50
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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

PO/PSO	1	2	3	4	5	6	7	8	9	10	11	12	PSO 1	PSO 2
Target	2.2	2	2.1	1.7	2	1.9	1.6	2.1	2.1	2.2	1.6	1.8	1.92	1.68
Attainment	2.52	2.45	2.38	2.33	2.42	2.56	2.19	2.21	2.32	2.26	2.21	2.31	2.44	2.34

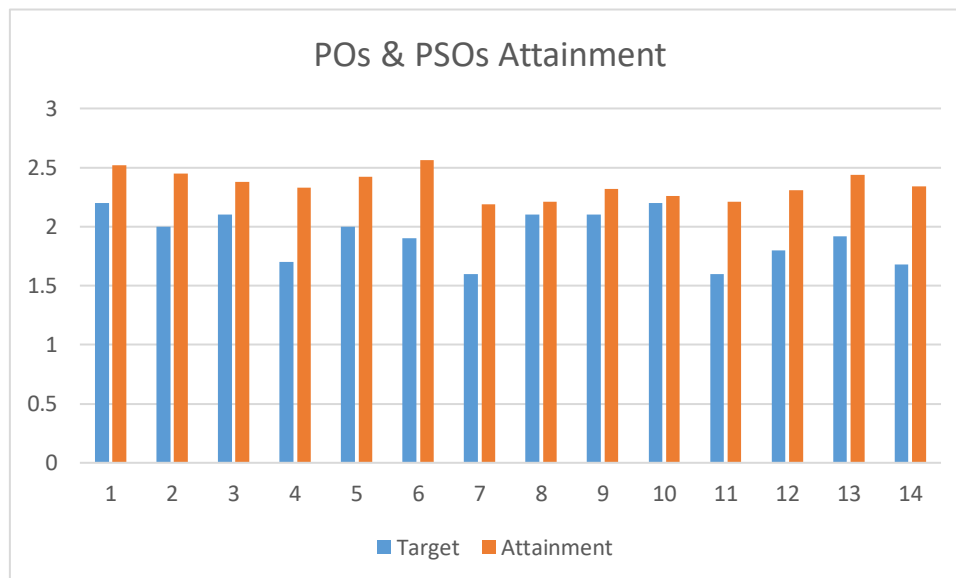


Figure. 7.1 a PO Target vs. PO Attainment for year 2022-23

PO's	Target Level	Attainment Level	Observations
PO1: Engineering knowledge: Apply knowledge of mathematics, science and engineering to solve engineering problems			
PO1	2.2	2.52	<ul style="list-style-type: none"> Target achieved. Due to knowledge of engineering fundamental concepts and problem solving.
Action 1: Separate class is arranged for all direct entry students to cover entire syllabus from starting with prerequisites. Action 2: More emphasis given on assignment solving. Action 3: Efforts taken for slow and advanced learner.			
PO2: Problem analysis: Identify, formulate and analyze engineering problems			
PO2	2.00	2.45	<ul style="list-style-type: none"> Target achieved. Electronics and telecommunication Engineering students obtain problem solving and analyzing skills through various basic courses like Engineering Mathematics III, Network analysis, Signal and system, Probability random process, Electromagnetic Field Theory etc.
Action 1: Incorporation of more numerical problems in tutorials Action 2: Various E-Resources on problem solving has been recommended. Action 3: Students are asked to solve different numerical assignments to identify, formulate and analyze engineering problems.			
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	2.01	2.38	Target achieved. <ul style="list-style-type: none"> Projects developed by students were having consideration for safety, environmental and social concerns. Audit Course like (Basic Human Rights) cover specific needs for health & safety, cultural, societal and environmental considerations.
Action 1: Students were motivated to implement solutions for public health and safety. Action 2: Guest lectures were arranged on topics like Automation, IOT considering public health, safety, societal, and environmental issues. Action 3: NSS organizes regularly various events such as PUC camp, Women's Safety measure workshop, traffic awareness program. Geo tagging .etc.			
PO4: Conduct investigations of problems: Design and Conduct experiments as well as to analyze and interpret data to provide valid conclusions			
PO4	1.7	2.33	Target achieved. <ul style="list-style-type: none"> Problem Statements of Project undertaken are based on complex problems. Exposure of complex problem

			analysis is given.
<p>Action 1: Guest lectures or hands on session can be conducted to improve knowledge to analyze problems.</p> <p>Action 2: Technical events are organized in order to develop skills on solving real world problems (Hackathons, Project Competition etc. are organized).</p>			
PO5: Modern Tool Usage			
PO5	2.00	2.42	Target achieved. Curriculum focuses on use more modern technical tools like Python, Embedded, VLSI etc.
<p>Action 1: Online Guest lecture on Software arranged & online IOT lecture conducted.</p> <p>Action 2: Development All faculty members of department focusing on utilizing digital modern tools for effective teaching which includes online expert/industrial talks, spoken tutorial, virtual labs, MOOC courses like NPTEL, Coursera etc.</p> <p>Action 3: Hands-on session can be conducted to learn new tools.</p> <p>Action 4: Industrial visit, field visit & Industrial training/Internship conducted for exposure to the usage of modern tools.</p>			
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	1.9	2.56	Target achieved • Ability to apply engineering practices
<p>Action 1: Students are encouraged to do more society needed projects. Projects based on environment, health care issues was emphasized</p> <p>Action 2: Students are encouraged to participate in societal activities through NSS, Blood Donation Camps and other Student Clubs to understand the problems in the society.</p> <p>Action 3: More emphasis on Courses like Basic Human Rights, Community Services / Projects & Environmental science to enrich their understanding of the societal needs and responsibilities.</p>			
PO7: Environment and sustainability: Understand the impact of engineering solutions in environmental contexts and demonstrate the need of sustainable development.			
PO7	1.6	2.19	Target is achieved • Through various activities.
<p>Action 1: Different initiatives such as tree plantation, no vehicle day, PUC camp organized.</p> <p>Action 2: Promoted paperless work through online submission to MOODLE and use of one sided paper for notices on notices board etc.</p> <p>Action 3: Students are encouraged to select their projects to reduce environmental impact by conserving energy, environmental friendly fluids / processes for sustainable Environment.</p>			
PO8: Ethics: Carry out professional and ethical responsibility.			

PO8	2.1	2.21	<p>Target achieved.</p> <p>University curriculum has less inclusion of courses related to ethics</p> <p>Need to focus on conduction of ethics related sessions.</p>
<p>Action 1: Separate GFM (Guardian Faculty Member) is appointed for batch of 20 Students for addressing personal issues, counselling and imbibe ethical values.</p> <p>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.</p> <p>Action 3: Institute student have proper uniform which indirectly contribute to develop ethical values of uniformity.</p>			
<p>PO9: Individual and Team work: Function effectively as an individual and as a member or leader in multidisciplinary activities</p>			
PO9	2.1	2.32	<p>Target achieved.</p> <p>Courses like seminar, project, business communication, project based learning courses involve individual and teamwork. Po attended to set target.</p>
<p>Action 1: Continues presentations are kept for seminar and project to enhance individual and team work.</p> <p>Action 2: Tarunai-students annual cultural program is organized every year where in students actively participate to showcase their skill as an individual and as team.</p> <p>Action 3: Industrial visit helps them to learn how to work as a team, gain practical knowledge.</p>			
<p>PO10: Communication: Communicate effectively with engineering community and society at large</p>			
PO10	2.2	2.26	<p>Target achieved.</p> <p>Skills required for documentation, communication, presentation during project and seminar is satisfactory but due to rural background there is scope for improvement.</p>
<p>Action 1: In academic time table separate time slot allotted for soft skill improvement session. Special training team is appointed for the same.</p> <p>Action 2: Student participated in various online soft skill development courses offered by various MOOCS platforms like NPTEL.</p> <p>Action 3: Different cultural events, sports, social activities, project competition, industrial visits, Industrial training etc. contributed in students soft skill development.</p>			
<p>PO11: Project management and finance: Demonstrate engineering and management principles to carry out projects in multidisciplinary environment, as a member/leader in a team.</p>			
PO11	1.6	2.21	<p>Target achieved.</p> <p>Courses like Operation Research, Energy Engineering, Energy Audit and Management includes project management and finance. 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.</p>

<p>Action1: Department student participated in various competition project competition and secured prizes.</p> <p>Action2: Department is having MOUs with various industries. Number of projects are industry sponsored projects which helps student to learn project management and finance.</p>			
<p>PO12: Lifelong learning: Recognize the need for and an ability to engage in life-long learning</p>			
PO12	1.8	2.31	<p>Target achieved.</p> <p>Students are learning fundamental courses in second year and application oriented courses in pre-final and final year, Student have demonstrated their lifelong learning ability.</p>
<p>Action1: Students are encouraged to do MOOC courses like NPTEL, Coursera etc.</p> <p>Action 2: Students participation in various activities like extracurricular, project competition developed their lifelong learning ability.</p>			
<p>PSO1: Students will be able to analyze and design the electronics and telecommunication systems by understanding and applying the fundamental knowledge.</p>			
PSO1	1.92	2.44	<p>Basic science course, professional core course, Engineering science course are used to analyze and design the electronics and telecommunication systems by understanding and applying the fundamental knowledge.</p>
<p>Action 1: Students are trained through various hands-on courses of respective domains.</p> <p>Action 2: Students are oriented about various technological developments through induction programme</p>			
<p>PSO 2: Electronics and telecommunication students will be able to contribute to projects in the core and associated domain by using modern tools like PCB design, embedded programming, etc.</p>			
PSO2	1.68	2.34	<p>Courses such as PCB Design, Embedded system, Digital Signal Processing, Numerical Methods involves simulation tools.</p> <p>•Project validation by using simulation tools.</p>
<p>Action 1: Various expert session are organized through industrial resource persons.</p> <p>Action 2: Students are oriented about entrepreneurship through skill development courses.</p>			

7.2 Academic audit and actions taken thereof during the period of assessment (10)

Academic audit is a one of the best practice to ascertain adequate and operative excellence assurance mechanisms in terms of procedures, their applicability, that ensures quality input and

subsequently quality output. The main aim of conducting academic audit is to assess the academic performance of both individual faculty and the whole department. This practice develops accountability of the individual members with regards to their academic performance. By conducting academic audit, the strength and weakness of the department can be assessed. The quantification of the academic performance helps us to compare the academic performance of departments and members of faculty.

Academic Audit:

The institute has well defined process of academic audit to evaluate the performance of different departments of the Institute such as; teaching process, laboratory maintenance and various departmental activities. Following are the objectives of academic audit

1. To assess the academic performance of individual faculty in a department.
2. To assess the academic performance of the department as a whole.
3. To identify the strengths and limitations of the department.
4. To make the individual faculty and the department accountable
5. To assure quality working of laboratory.

In the implementation of this process, the Internal Quality Assurance Cell (IQAC) constitutes an Academic Audit Committee (AAC) to audit each department twice in a semester, i.e., one at just before the commencement of semester while the other is just before the end of that semester. The members of AAC are given below:

1. Chairperson of IQAC.
2. Coordinator of IQAC.
3. One Professor/Associate Professor from the respective department.
4. One Professor/Associate Professor from the other department

I. Academic Audit:

Departmental academic audit is conducted in every academic year-

Pre-semester audit is conducted at the department level by respective academic coordinator along with HOD before the commencement of new semester. Course files including session

plan, notes, assignments, lab manual, question banks etc. are checked and academic monitoring checklist 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

	<p align="center">SAMARTH EDUCATIONAL TRUST ARVIND GAVALI COLLEGE OF ENGINEERING</p>	<p>* Address : Al Panmalewadi, Post-Varyn, Tal. & Dist. - Satara - 415 015 (Maharashtra) * Phone : 02162 - 261122, 200100 * e-mail : agcegsatara@gmail.com</p>
<p align="center">NAAC Accredited Approved by AICTE, New Delhi, Recognised by Govt. Of Maha., DTE Mumbai & Affiliated to Dr. Babasaheb Ambedkar Technological University (BATU), Lonere. Website:- www.agce.edu.in</p>		<p>* Institute Code : Engg. DTE EN-6545 * Poly. Code : DTE DN-6545 * Poly. MSBTE-1617</p>
<p>Ref No.: AGCE / NOV - 2022 / No - 231</p>		<p>Date : 10 NOV 2022</p>
<p align="center">Letter of Invitation</p>		
<p>To, Dr. Uday A. Dabade, Professor, Walchand College of Engineering, Sangli</p>		
<p>Respected Sir,</p>		
<p>On behalf of management of Samarth Educational Trust Arvind Gavali College of Engineering, Satara, it gives me immense pleasure to invite you as an expert for DBATU Academic Audit of our Institute on 18th November 2022, Friday 11:00 am.</p>		
<p>Samarth Educational Trust has been actively associated with educational activities since its inception in 1988 and is developing fast into a prime educational center in the western region of Maharashtra. It has presently the following constituent institutes under its umbrella:</p>		
<ul style="list-style-type: none"> ➤ Arvind Gavali College of Engineering & Polytechnic (AGCE) ➤ Sawkar Homeopathic Medical College ➤ Arvind Gavali College of Pharmacy (B. Pharm) ➤ Sawkar Pharmacy College (D. Pharm) ➤ Sawkar Science College 		
<p>AGCE is one of the most rapidly evolving engineering institute which is affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere. Institute is having lush green, eco-friendly campus conducive to overall development of the students leading to their enhancement in employability. The Institute is offering B.Tech. in Mechanical, Civil, Electronics and Telecommunication, Electrical, Computer Science. Also M.Tech. in Mechanical (Heat Power Engineering). NATIONAL EDUCATION EXCELLENCE AWARDS & CONFERENCE 2021 has presented our college as MOST PROMISING & TRUSTED ENGINEERING COLLEGE OF THE YEAR 2021 MAHARASHTRA.</p>		
<p>Academic audit helps to assess the academic performance of the Institute and also to get suggestions for overall progress of the Institute.</p>		
<p>It is our honor and pleasure to invite you as an expert on 18th November 2022, Friday Kindly grace the occasion with your presence.</p>		
<p>Thanking you,</p>		
		<p align="right">Principal  Dr. Vilas Pharande Principal Arvind Gavali College Of Engineering Panmalewadi, Satara</p>

7.2.a Sample Invitation Letter for External Academic Audit

Dr. Babasaheb Ambedkar Technological University
Academic Audit of Engineering Colleges
Format - II (To be filled individually by Faculty Member)

Centre/SubCentre: Arvind Gavali College of Engineering District: Satara

1	Name of the College and Address	Arvind Gavali College of Engineering Satara		
2	Name of the Faculty Member	Prof. Jagtap D.B		
3	Name of the Subject taught during academic year	Digital Communication		
4	Date of Joining in Degree College/Date of Joining in the present Institution	2/12/2011	Date of Retirement:	
S.No.	Activity	Status (Give Details, not just Yes/No)	Impression of Academic Advisor along with grade A(Good)/B(Satisfactory)/C (poor) after Observation	Recommendation/Suggestion by Academic Advisors
Curricular Aspects				
5	Annual Curricular plan	Yes, Academic Calender	A	✓
6	Curriculum enrichment / Value addition	Yes, Attached	A	✓
7	Whether conducting Add on Courses & role in conduct of course	Yes	A	✓
8	Feedback from students	Yes, Attached	A	✓
Teaching, Learning and Evaluation				
9	Teaching Diary & Teaching Plan	Yes, Attached	A	✓
10	Coverage of syllabus so far (%)	Yes, Attached	A	✓
11	Record of students attendance	Yes, Attached	A	✓
12	Use of ICT - PPT & Audio-video Aids	Yes, Used	B	✓
13	Record of students assignments	Yes, Attached	B	✓
14	Record of field trips	Yes, Attached	B	✓
15	Record of student seminars conducted	Yes, Conducted	A	✓
16	Record of academic competitions conducted if any (Quiz, Role play)	Yes, Quizzes are Conducted	A	✓

Page 1 of 4

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/Suggestion by Academic Advisors
18	Record of Extension Lectures given	Yes, Given	B	✓
19	Record of invited lectures arranged	Yes, Arranged	B	✓
20	Record of internal examinations and University Exams	Yes, Attached	A	✓
21	Pass percentage of University Exams / Semester in respective subject for the last three years. (paper wise)	Yes attached	A	✓
22	Record of remedial classes conducted for slow learners	Yes, Conducted	A	✓
Research, Extension and consultancy				
23	Record of Research work (Paper publication, Book publication, Articles)	Yes, Paper Published	A	✓
24	Record of Student Projects	Yes, Attached	A	✓
25	Record of seminars / workshops attended / organized / Papers presented	Yes, Attended	A	✓
26	Record of extension work undertaken	Yes	B	✓
27	Record of MoUs, if any	Yes, Signed	A	✓
28	Record of Consultancy work	No	C	
Infrastructure and learning Resources				
29	Utilization of Departmental Library	Yes, Utilized	A	✓
30	Availability of CDs, Videos	Yes, Available	A	✓
31	Virtual labs / Open Educational Resources (OERs)	Yes, Moodle	A	✓
	Development of any educational resource	Yes, Lab Manual	A	✓
Student support and progression				
32	Record of Activities conducted to contribute to the students' career opportunities	Yes, Conducted	B	✓

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

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/Suggest by Academic Advisors
33	Mentoring / Counselling to students for curricular and co-curricular activities	Yes,Attached	A	✓
34	Newspaper clippings or other materials as additional resource	Yes,Attached	B	✓
	Any Student team project for Technology Development	Yes,Attached	B	✓
Governance and Leadership				
35	Record of additional administrative responsibilities performed	Yes,Performed	A	✓
36	Record of innovative practices	Yes,Attached	B	✓
37	Any outstanding contribution	Yes,Contributed	B	✓
38	Whether above(related activities)entered in into Departmental Activities Register	Yes, Entered	B	✓
39	Maintenance of Departmental Activities Register	Yes,Maintained	A	✓
40	Check Departmental Documentation (should be available with I/c of dept.) 1. Dept. Time Table 2. Faculty-wise Annual Curricular Plans 3. Facultywise wise Teaching Diary & Plans 4. Departmental Activity Register along with documentary Evidences 5. Faculty wise API formats along with Evidences	Yes,Checked	A	✓
	 Signature of the Faculty member			 Signature of the Princ
	Note: the Format is to be filled by all the faculty and certified by the Principal and submitted to the Academic Audit Team.			

Figure 7.2.b Sample Audited Course File Record

This audit ensures smooth conduction of academics as per targeted plan. Suggestions and corrective actions are given to faculty members as per the check lists. Academic summary report is prepared by departmental academic coordinator and discussed in HOD meeting for further corrective actions. Following are audit outcomes:

- i. Quality assurance in academic monitoring system
- ii. Uniformity in policy implementation throughout the Institution
- iii. Areas for improvement are identified and fulfilled

Academic Audit Summary Sheet 2021-22

Institution/University Department: **Arvind Gavali College of Engineering, Satara**Program Title: **Engineering**

Degree Level: Undergraduate Academic Audit Status: ___ First Academic Audit ___ Second

Academic Audit

Evaluation Results

		Met/not met	% achieved
1	LEARNING OBJECTIVES AND RESOURCES		
1.1	The Faculty member has prepared Course Files as per the learning objectives of the program	Met	74
1.2	The Faculty member has shared his course file with the students of the class through Intranet/ Social media or any other means	Met	70
1.3	The faculty member documented specific benchmarks of his course to account for learning objectives	Met	72
2.	CURRICULUM AND CO-CURRICULUM		
2.1	The faculty member collaborated with other faculty members for effective design, sequence of courses and delivery of course for improvements and documented these efforts appropriately	Met	69
2.2	The faculty member documented a plan for analyzing the course content in terms of achieving program objectives.	Met	67
2.3	The faculty member documented a plan for review of curriculum and co-curriculum comparing those with the best practices elsewhere or in best institutes	Met	64
3	TEACHING AND LEARNING PROCESSES		
3.1	The faculty member analysed his/her own methods for improving teaching and learning throughout the program and practiced them.	Met	76
3.2	The faculty member developed and promoted effective instructional methods, other than lecturing, so that student achieve the learning objectives.	Met	70
3.3	The faculty member developed materials for achieving student mastery of learning objectives.	Met	68
4.0	STUDENT LEARNING ASSESSMENT		
4.1	The Faculty member has announced the method of continuous assessment at the beginning of the course and followed it throughout.	Met	76
4.2	The faculty member developed techniques, other than written test, for the student learning assessments to improve the program.	Met	64
4.3	The faculty member has documented assessments of student learning	Met	76
4.4	The faculty member has developed measurable indicators of student learning success	Met	74
4.5	The faculty member has developed and documented a continuous improvement plan that incorporates multiple measures to assess student learning and program effectiveness.	Met	77
4.6	The Student has put in his/her own efforts in the learning process from resources outside the Institute.	Met	62
4.7	The students are challenged enough to use their knowledge creatively	Met	69

5.0	QUALITY ASSURANCE		
5.1	There is an existing process in the Institute to understand the parameters of quality of teaching and learning processes	Met	66
5.2	There is an initiative to understand the parameters of quality of teaching and learning processes, if not existing.	Met	70
5.3	There is commitment to making continuous quality improvements in the program a top priority	Met	72
5.4	The performance of students in Internal Assessment and University Examinations is comparable.	Met	78
5.5	There is sufficient feedback obtained from stakeholders in development of academic processes in the College.	Met	74
5.6	There is sufficient evidence of attempts to understand the industries/ Society's need in delivery of appropriate course content to the students	Met	64
6	OVERALL ASSESSMENT		
6.1	The Academic Audit process was Faculty driven.	Met	80
6.2	The Academic Audit process (self-study and visit) included descriptions of the program's quality processes including all five focal areas.	Met	80
6.3	The Audit resulted in a candid description of weaknesses in program processes and suggestions for improvements.	Met	80
6.4	There is openness and thoroughness of the faculty members in completing the academic audit of this program.	Met	75
6.5	The Academic Audit process included involvement of and inputs from stakeholder groups identified by the program's faculty members	Met	85
7	FOLLOW-UP OF PREVIOUS AUDIT		
7.1	An action plan was developed as a result of the previous Academic Audit.	Met	Yes
7.2	There is documented evidence that recommendations made by the previous Academic Audit Team have been considered and, when feasible and appropriate, implemented and tracked.	Met	Yes
7.3	There is documented evidence that the program has been implemented and tracked the progress of and use of results from improvement initiatives cited by the faculty its self-study.	Met	Yes
8	SUPPORT		
8.1	The program regularly evaluates its library, equipment and facilities, encouraging necessary improvements within the context of overall college resources.	Met	74
8.2	The program's operating budget is consistent with the needs of the program.	Met	76
8.3	The program has a history of enrolment rates sufficient to sustain high quality and cost-effectiveness.	Met	78
8.4	The program has a history of graduation rate sufficient to sustain the quality of the program.	Met	72
8.5	The program has a history of placement rate sufficient to sustain high quality of program outcome.	Met	67
8.6	The Program has a history of generating support from industries and alumni to sustain itself.	Met	69
Signatures of Academic Advisors			
1. Dr. Uday A. Dabade, Professor, Walchand College of Engineering, Sangli-----			
2. Dr. Kumthekar Madhav Bhalchandra, Retired Professor, Karad Government College, Karad-----			

Figure 7.2.c Sample Academic Audit Summary Sheet



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



Fig 7.3e Academic Audit 2021-22 Committee visit to the laboratory and the experiments are demonstrated by students to the committee

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

- Institute has a Training and Placement cell, responsible for grooming the students

to be industry ready and provide opportunities for placement.

- T&P cell organizes various programs for overall personality development of the students. Also Training placement coordinator helps students search Internship opportunities in Mechanical industries.
- Experienced industry professionals in the respective domain of job profiles are invited for guest lectures.
- Through these activities, the students are made aware of the opportunities in various fields along with the required job profile. At the same time, they get a chance to interact with these industry professionals to take advantage of their experience in respective field of expertise.
- Career guidance books such as GRE, GATE, TOEFL are available in the library.
- In addition, with T&P Cell, Institute has initiated Campus to Corporate activity to help students improve communication skills, interpersonal skills, and 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 Table 7.3a

Table 7.3a Data for Placements

Items	CAY (2021-22)	CAYm1 (2020-21)	CAY m2 (2019-20)
No. of final year students (N)	52	57	20
No. of students placed (x)	49	54	15
% Placement	82.69	71.92	88.23

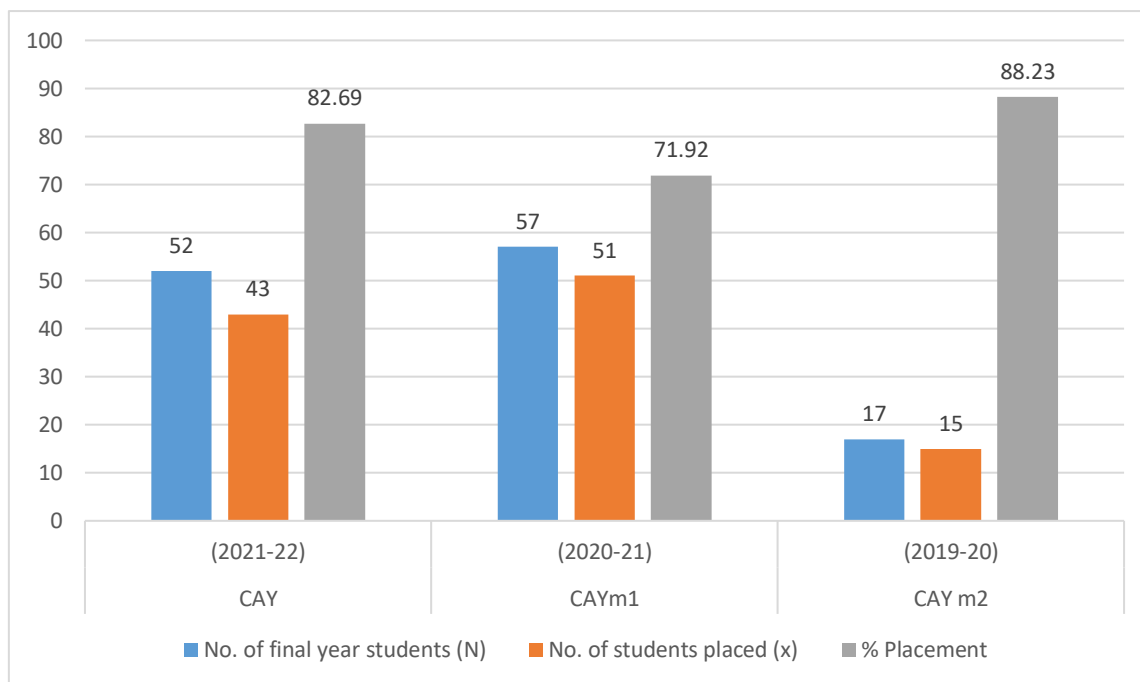


Fig. 7.3a Placement data analysis

Table 7.3.1: List of Companies in which students placed in 2021-22

Sr.no.	Name of student	Name of the company	Designation	Salary(Per Annum)	Ref Number
1	KADAM SANCHITA HANMANT	APTRON TECHNOLOGY, SATARA	Trainee Engineer	1.5 L	APT-SO/2021-22/11-05
2	CHAVAN MAHESH TANAJI	SURYAURJAA TECHNOLOGY, SATARA	Sales-Trainee	1.25L	SURYA-OL/2223/08-04
3	PATEL SIMRAN ALLAUDDIN	HCL TECHNOLOGIES LTD., NOIDA	GRADUATE ENGINEER TRAINEE	4.25L	HCL-GE/REC/201-22/05
4	POTEKAR SNEHAL SANJAY	TATA MOTORS, PUNE	APPERNTIC E TRAINEE	1.44L	HR-TRG/TA/REC/2021-22/
5	SHAIKH FARIYAD RASHID)	LEAN QUALITY SOLUTIONS PVT LTD PUNE	Junior SQL Developer	2.5L	LQS-SQ-2022-23/REC/06
6	JADHAV TRUPTI SANDIP	CAPGEMINI TECHNOLOGY, MUMBAI	ANALYST/A 4	4.0 L	6227576/449401

7	KADAM OMKAR NAVNATH	WIPRO PUNE	PROJECT ENGINEER	3.5L	WIPRO-PE/2122/05
8	SAWANT PRATIKSH A SHANKAR	TATA MOTORS, PUNE	TECHNICIA N APPRNTICE	1.44 L	HR- TRG/TA/REC/2021-22/
9	JADHAV KOMAL SANJAY	WELLNESS FOREVER MEDICARE LTD.,MUMBA I	INTERNSHI P TRAINEE	1.44 L	WFM- TA/REC/2122/06
10	MAHADIK OMKAR SANJAY	APTRON TECHNOLOG Y, SATARA	TRAINEE Engineer	1.26L	APT-SO/2022/11-07
11	GHORPAD E PRANALII RAMCHAN DRA	RELIEANCE SMSL PUNE	SALES ASSOCIATE	1.75	HR/FEB/23/K2/605993 31/1001411098
12	KUMBHAR DHANASH REE SHARAD	TATA AUTOCOMM SYSTEM LTD PUNE	AUTOMOTI VE ASSEMBLY OPERATOR	2.26 L	073-14613690
13	CHAVAN VARSHA KASHINAT H	HUDI INDIS PVT LTD PUNE	SPORTS ANALYST	2.88 L	HUDI/2021-22/6633
14	KHAN MISBA KHALIL	INFOSYS PUNE	ANALYST	2.25 L	HRD/3T/1003303427/2 2-23
15	KADAM VAISHNAV I RAJENDRA	SURYAURJAA TECHNOLOG Y, SATARA	SALES- TRAINEE	1.25L	SURYA-OL/2223/08- 04
16	KADAM SHIVANI VIJAY	TATA MOTOR PUNE	TECHNICIA N APPRNTICE	1.44 L	HR- TRG/TA/REC/2021-22/
17	KADAM SHRIHARI VIJAY	DEQUODE PUNE	SOLUTION ENGINEER	3.40 L	DE-SE/REC/2021-22
18	BHOSALE POOJA GORAKH	HR OUTPROFF TECH PUNE	INTERNSHI P TRAINEE	2.5 L	HR/IT-2021-22

19	CHAVAN SANDHYA RANI SHASHIKA NT (print)	TATA MOTOR PUNE	TECHNICIA N APPRNTICE	1.44 L	HR- TRG/TA/REC/2021-22/
20	KHAMKAR POOJA SHANKAR	APTRON TECH, SATARA	TRAINEE ENGINEER	1.5 L	APT-SO/2021-22/11-06
21	SAYYAD MUSKAN TAIYAB	QUANTIFY MUMBAI	TEST AUTOMATI ON ENGINEER	2.44 L	QP/REC/2021-22
22	PAWAR ARATI TATYA	CODE SOFT TECH	WEB DEVELOPE R	1.44 L	C507WX3963
23	LAVAND MRUNALI SHIVAJI	SURYAURJAA TECHNOLOG Y, SATARA	SALES- TRAINEE	1.25L	SURYA-OL/2223/08- 06
24	MORE SHREYASH DILIP	ROCKWELL AUTOMATIO N	SOFTWARE ENGINEER TRAINEE	6.34 L	ROCK/RE/2021-22
25	SAPTE VIPUL SHASHIKA NT	SURYAURJAA TECHNOLOG Y, SATARA	SALES- TRAINEE	1.25L	SURYA-OL/2223/08- 07
26	SAWANT POOJA KRISHNAT	RSL SOLUTIONS PVT LTD, PUNE	SOFTWARE DEVELOPE R	2.44 L	RSL/REC/021-22
27	JADHAV GHANSHY AM VIKAS	SAI TECHNOLOG Y, SATARA	TRAINEE Engineer	1.44 L	SAI/ REC/ 2021-22
28	VIBHUTE PRADNYA GAJANAN	YASHAWI ACADEMY FOR SKILLS	ASSEMBLY LINE SUPERVISO R	1.59 L	YASHAWI/REC/2021- 22
29	ANJALI SAHEBRA O SANAS	INYATRA TECH PVT LTD	PCB TESTING	1.22 L	INYANTRA/REC/2021 -22
30	GOUDANA VARU SHIVANAN D AMASIDD H	OMKAR LECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/2021-22

31	SAVAKHA NDE TEJAS	OMKAR LECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/2021-22
32	RAJESHIR KE ABHISHEK PRADIP	OMKAR LECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/2021-22
33	BABAR HEMA SURESH	SAI TECHNOLOG Y, SATARA	TRAINEE Engineer	1.44 L	SAI/ REC/ 2021-22
34	PHARAND E ROHAN HANMANT	OMKAR LECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/2021-22
35	NIMBALK AR ANIKET MAHESH	SAI TECHNOLOG Y, SATARA	TRAINEE Engineer	1.44 L	SAI/ REC/ 2021-22
36	BHANDAR E AISHWAR YA SANJAY	ABHAY SINGH BHOSALE NSTITUTE TECHNOLOG Y,SATARA	ASSI. PROF	1.8 L	2023-24/205
37	CHAVAN KAJAL BALU	INYANTRA TECH PVT LTD SHINDEWADI	TRAINEE Engineer	1.8 L	INYANTRA/REC/2021 -22
38	BHILARE PRIYANKA RAVINDRA	INYANTRA TECH PVT LTD SHINDEWADI	TRAINEE Engineer	1.8 L	INYANTRA/REC/2021 -22
39	PAWAR ANKITA VILAS	OMKAR LECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/2021-22
40	JADHAV VAISHNAV I SUHAS	APTE MANUFACTU RING LTD SATARA	SALES COORDINA TOR	2.40 L	AMSPL/HR/F20
41	VIDHATE PRANALI SURESH	PROMPT PERSONNEL	AGENCY CONTRACT OR PROVISIONI NG & CONFIGUR ATION MANAGEM ENT	2.37 L	PR/REC/2021-22

42	MADIWAL NILRAJ BASURAJ	CEM ELECTROTEC H PVT LTD	PROCESS QUALITY ENGINEER	3.20 L	CEM0REC02021-22
43	SAKUNDE SACHEEN RAMCHAN DRA	FLASH ELECTRONIC S	SENIOR PCB DESIGNER- R&D	1.80 L	FEIPL/HR/APPT/1906
44	HAWALE SUVARNA SOMNATH	SAI TECHNOLOG Y, SATARA	TRAINEE Engineer	1.30 L	SAI/ REC/ 2021-22
45	SAWANT GOURI ASHOK	BSA NEEM	TRAINEE ENGINEER	1.50 L	BSA/PUN/NT/7874
46	NIKAM SAYALI DHANAJI	HCL TECHNOLOGI ES	SOFTWARE ENGINEER TRAINEE	2.52 L	HCL/REC/2021-22
47	DHAYGUD E HARSHAD A ABHAY	APTRON TECH, SATARA	TRAINEE ENGINEER	1.80 L	APT-SO/2021-22/11-07
48	KADAM MADHAVI PRAKASH	CLEAN MOBILITY TECH	TRAINEE ENGINEER	2.87 L	PVCMT/HR/APP/2023 /007
49	SHAIKH ASIF RAFIK	INFINITY PUNE	QUALITY CONTROL ENGINEER	2.16 L	INFINITY/22-23/CF/03

Table 7.3.2 List of Companies in which students placed in 2020-21

S.no.	Name of student	Name of the company	Designation	Salary(Per Annum)	Ref Number
1	ATUL MADHUKAR SALUNKHE	PRICOL TECHNOLOGIES PUNE	ASSEMBLY LINE OPERATOT	1.88 L	PRE/REC/2020-21
2	JAMDADE SHRAVANI RAMESH	INYATRA TECH PVT LTD	PRODUCTION ENGINEER	1.80 L	INYANTRA/REC/ 2021-22
3	RAJASHRI DAJIRAM DESHMUKH	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/ 2020-21
4	MANKAR KOMAL	SAI TECHNOLOGY	GRADUATE TRAINEE	2.5L	SAI/REC/2022

	RAMCHANDRA				
5	ROHIT PANDURANG DESHMUKH	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/2020-21
6	MAHADIK SAYALI YASHAWANT	SUN AND TECH AND SERVICES PVT LTD.	ASSOCIATE ENGI TRAINEE	1.20 L	SUN/REC/2020-21
7	PRAJAKTA PRATAP SURYAVANSHI	INFOSYS, MYSORE	SYSTEM ENGINEER	3.00 L	INFOSYS/REC/2020-21
8	AVINASH SHAHAJI WAGHMARE	PROCOL PUNE	JUNIOR ENGI	3.1 L	PRL-HRD-151-PROB-RECT-2021
9	BANDAL TUSHAR JAYWANT	Suresh Indu Lasers Pvt. Ltd, Pune	PRODUCTION AND SERVICE TRAINEE	2.5 L	SIL-HR/REC/2020-21
10	BHINGARE RAKSHATA MAHADEV	DANA India Technical Center, PVT LTD, Ratnagiri	POST GRADUATE TRAINEE ENGI	2.5 L	DANA/ENGI/22-23
11	BHOITE AKASH PRATAPRAO	PROMPT PERSONNEL, MUMBAI	ASSOCIATE ENGINEER	2.1 L	PROMPT-HRD/REC/2020-21
12	BHOSALE JYOTI RAJKUMAR	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/2020-21
13	CHAVAN NAMRTA RAMDAS	Tool Tech Global Engineering	GET-SOFTWARE ENGI	3.00 L	TOOLTECH-HR/REC/2020-21
14	CHAVAN POONAM MADHUKAR	INSTMOJO PUNE	OPERATOR ENGINEER	4.8 L	INTA/REC/2020-21
15	CHAVAN PRIYANKA RAJENDRA	STELLANTIS FACAIT AUTOMOTIVE INDIA PVT LTD	GRADUATE ENGINEER TRAINEE	5.5 L	FCAIT-HR/REC/2020-21
16	CHAVAN TANUJA VISHWAS	WIPRO, PUNE	PROJECT ENGINEER	3.5 L	WIPRO-HR/REC/2020-21
17				2.70 L	

	CHOUGULE AKASH BHIMRAO	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T		VIDHYATI/REC/ 2020-21
18	DONGHARE MRUNALI KISHORE	INFOSIS, MYSORE	SYSTEM ENGINEER TRAINEE	3.5 L	HRD/1003892506/ 21-22
19	GAVALI MANISHA KRUSHNK ANT	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/ 2020-21
20	GOVARKAR RUTVIK AJIT	ELECTRAA SOLAR SYSTEM	PRODUCTION AND SERVICE ENGI	1.8 L	ELECTRA;HRD/ REC/2020-21
21	JADHAV AKSHAY ARUN	PRICOL TECHNOLOGIES PUNE	ASSEMBLY LINE OPERATOT	1.88 L	PRE/REC/2020-21
22	JADHAV ALPESH ANADRAO	SAGITEC SOLUTIONS PVT LTDPUNE	TRAINEE ENGINEER	1.2 L	HR/SAGITEC/SP/ TL/015/08/22
23	JADHAV ANURADHA NARENDRA	DHRUVA Automation and control pvt ltd	TRAINEE ENGINEER	2.2 L	DRHUV/REC/202 0-21
24	JADHAV ASHWINI SUDHAKAR	PRICOL TECHNOLOGIES PUNE	ASSEMBLY LINE OPERATOT	2.2 L	PRE/REC/2020-21
25	JAGADALE KAJAL SOMNATH	TCS , CHENNAI	ASSISTANT SYSTEM ENGINEER- TRAINEE	3.4 L	TCSL/DT2021930 0033/CHENNAI
26	JAYANT SANJAY PAWAR	QLOGICIEL	SOFTWARE TESTER	1.8 L	QLOGIC- HRD/REC/2020- 21
27	KALE KSHITIJ SURYKANT	LUEWINT TECH PVT LTD	JUNIOR ENOVIA DEVELOPER	1.5 L	LUWINT/REC/20 20-21
28	KHARAT SHITAL SHASHIKAN T	OMKAR ELECTRONICS	PCB DEVELOPER	1.8 L	OMKAR/REC/020 -21
29	KULKARNI VISHWJEET AMOL	APTRON TECH SATARA	TRAINEE ENGINEER	3.0 L	APT-SO/2021- 22/11-05
30	MALI BHAGYASH RI	TATA TECHNOLOGIES, PUNE	SOFTWARE DEVELOPER	4.7 L	TCS- HR/REC/2020-21

	RAGHUNATH				
31	MORE PRATHAMESH ANANDRAO	VODAFONE PUNE	MANAGER-MOBILITY	7.2 L	VODA/REC/2020-21
32	MULANI MOHASIN	CEM Electromech PVT LTD, SANGALI	PROJECT ENGINEER	1.9 L	CEM/REC/2020-21
33	NIKAM PRIYANKA CHANDRAKANT	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER	1.8 L	VIDHYATI/REC/2020-21
34	PARAG DILIP BABAR	SVAKARMA FINANCE PVT LTD	FINANCE OFFICER	3.8 L	SVAKARMA/REC/2020-21
35	PAWAR KULDEEP SHIVAJI	CDAC, THIRUVANANTPURAM	PROJECT ENGINEER	2.2 L	HR/714/2022
36	PAWAR POOJA	CAIT EDUSIS PVT LTD	PROCESS ENGINEER	2.8 L	CAIT/REC/2021
37	PAWAR PRASAD SANJAY	SAI ELECTRONICS SATARA	TRAINEE ENGINEER	2.25 L	SAI/REC/2022
38	PHARANDE TEJASWEENI	INTANGLES LAB PVT LTD	HERDWARE ENGINEER	2.8 L	INTANGLES/REC/2020
39	PUJA SURESH DESHMUKH	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER	1.8 L	VIDHYATI/REC/2020-21
40	RAJPURE ABHIJEET	SAGITECH PUNE	TRAINEE ENGINEER	1.2 L	SAGITECH/REC/2020
41	RANKHAMBHE MEGHA JALINDAR	STAD SOLUTIONS			

42	SALUNKHE ABHISHEK	GOLDSQUIRREL	SOFTWARE TESTER	2.8 L	GOLDSQL/REC/2020
43	SALUNKHE MAYURI	SURYAURJAA TECH	SALES TRAINEE	1.25	SURYA/REC/2020
44	SALUNKHE RUSHIKESH	SAI TECHNOLOGY	GRADUATE ENGINEER TRAINEE	2.25 L	SAI/REC/2022
45	SAWANT SHITAL	FAURECIA, PUNE	GRADUATE ENGINEER TRAINEE	5.5 L	FAURECA/REC/2020
46	SHINDE AKSHAY SANJAY	YASH TECHNOLOGY	GRADUATE ENGINEER TRAINEE	3.5 L	YASH/REC/2020
47	SHINDE GANESH SANJAY	ACME INFOVISION	SOFTWARE DEVELOPER	1.95 L	ACME/REC/2020
48	SHINDE MAYURI KRUSHNKANT	VIVEKANAND ACADEMY, SATARA	STEM LAB TECH ASSISTANT	1.8 L	VAHE/APP ORD/DOC/2021-22/43
49	SHINDE PRAJAKTA	SAI TECHNOLOGY	GRADUATE TRAINEE	2.5L	SAI/REC/2022
50	SHIRKE AMIT KRISHNA	SAI TECHNOLOGY	GRADUATE TRAINEE	1.9 L	SAI/REC/2022
51	AKSHATA URANE	INFOSIS, MYSORE	SYSTEM ENGINEER TRAINEE	3.6 L	INFO/REC/2020-21
52	VINCHU SONAM	SURYAURJAA TECH	SALES TRAINEE	1.25	SURYA/REC/2020
53	WAYADANDE VIDYA	CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT	NEEM TRAINEE ENGINEER	2.5 L	NEEM/REC/2020-21
54	PRIYANKA YADAV	SAI TECHNOLOGY	GRADUATE TRAINEE	2.5L	SAI/REC/2022

Table 7.3.3 List of Companies in which students placed in 2019-20

SR.NO.	NAME OF STUDENT	NAME OF THE COMPANY	DESIGNATION	SALARY (PER ANNUM)	REF NUMBER
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1	KADAM SANCHITA HANMANT	APTRON TECHNOLOGY, SATARA	TRAINEE ENGINEER	1.5 L	APT-SO/2021- 22/11-05
2	CHAVAN MAHESH TANAJI	SURYAURJAA TECHNOLOGY, SATARA	SALES- TRAINEE	1.25L	SURYA- OL/2223/08-04
3	PATEL SIMRAN ALLAUDDIN	HCL TECHNOLOGIE S LTD., NOIDA	GRADUATE ENGINEER TRAINEE	4.25L	HCL- GE/REC/201-22/05
4	POTEKAR SNEHAL SANJAY	TATA MOTORS, PUNE	APPERNTIC E TRAINEE	1.44L	HR- TRG/TA/REC/202 1-22/
5	SHAIKH FARIYAD RASHID)	LEAN QUALITY SOLUTIONS PVT LTD PUNE	JUNIOR SQL DEVELOPE R	2.5L	LQS-SQ-2022- 23/REC/06
6	JADHAV TRUPTI SANDIP	CAPGEMINI TECHNOLOGY, MUMBAI	ANALYST/ A4	4.0 L	6227576/449401
7	KADAM OMKAR NAVNATH	WIPRO PUNE	PROJECT ENGINEER	3.5L	WIPRO- PE/2122/05
8	SAWANT PRATIKSHA SHANKAR	TATA MOTORS, PUNE	TECHNICIA N APPRNTICE	1.44 L	HR- TRG/TA/REC/202 1-22/
9	JADHAV KOMAL SANJAY	WELLNESS FOREVER MEDICARE LTD.,MUMBAI	INTERNSHI P TRAINEE	1.44 L	WFM- TA/REC/2122/06
10	MAHADIK OMKAR SANJAY	APTRON TECHNOLOGY, SATARA	TRAINEE ENGINEER	1.26L	APT-SO/2022/11- 07
11	GHORPADE PRANALII RAMCHANDRA	RELIEANCE SMSL PUNE	SALES ASSOCIATE	1.75	HR/FEB/23/K2/60 599331/100141109 8
12	KUMBHAR DHANASHREE SHARAD	TATA AUTOCOMM SYSTEM LTD PUNE	AUTOMOTI VE ASSEMBLY OPERATOR	2.26 L	073-14613690
13	CHAVAN VARSHA KASHINATH	HUDI INDIS PVT LTD PUNE	SPORTS ANALYST	2.88 L	HUDI/2021- 22/6633

14	KHAN MISBA KHALIL	INFOSYS PUNE	ANALYST	2.25 L	HRD/3T/10033034 27/22-23
15	KADAM VAISHNAVI RAJENDRA	SURYAURJAA TECHNOLOGY, SATARA	SALES- TRAINEE	1.25L	SURYA- OL/2223/08-04
16	KADAM SHIVANI VIJAY	TATA MOTOR PUNE	TECHNICIA N APPRNTICE	1.44 L	HR- TRG/TA/REC/202 1-22/
17	KADAM SHRIHARI VIJAY	DEQUODE PUNE	SOLUTION ENGINEER	3.40 L	DE-SE/REC/2021- 22
18	BHOSALE POOJA GORAKH	HR OUTPROFF TECH PUNE	INTERNSHI P TRAINEE	2.5 L	HR/IT-2021-22
19	CHAVAN SANDHYARANI SHASHIKANT (PRINT)	TATA MOTOR PUNE	TECHNICIA N APPRNTICE	1.44 L	HR- TRG/TA/REC/202 1-22/
20	KHAMKAR POOJA SHANKAR	APTRON TECH, SATARA	TRAINEE ENGINEER	1.5 L	APT-SO/2021- 22/11-06
21	SAYYAD MUSKAN TAIYAB	QUANTIFY MUMBAI	TEST AUTOMATI ON ENGINEER	2.44 L	QP/REC/2021-22
22	PAWAR ARATI TATYA	CODE SOFT TECH	WEB DEVELOPE R	1.44 L	C507WX3963
23	LAVAND MRUNALI SHIVAJI	SURYAURJAA TECHNOLOGY, SATARA	SALES- TRAINEE	1.25L	SURYA- OL/2223/08-06
24	MORE SHREYASH DILIP	ROCKWELL AUTOMATION	SOFTWARE ENGINEER TRAINEE	6.34 L	ROCK/RE/2021-22
25	SAPTE VIPUL SHASHIKANT	SURYAURJAA TECHNOLOGY, SATARA	SALES- TRAINEE	1.25L	SURYA- OL/2223/08-07
26	SAWANT POOJA KRISHNAT	RSL SOLUTIONS PVT LTD, PUNE	SOFTWARE DEVELOPE R	2.44 L	RSL/REC/021-22
27			TRAINEE ENGINEER	1.44 L	SAI/ REC/ 2021-22

	JADHAV GHANSHYAM VIKAS	SAI TECHNOLOGY, SATARA			
28	VIBHUTE PRADNYA GAJANAN	YASHAWI ACADEMY FOR SKILLS	ASSEMBLY LINE SUPERVISOR	1.59 L	YASHAWI/REC/2 021-22
29	ANJALI SAHEBRAO SANAS	INYATRA TECH PVT LTD	PCB TESTING	1.22 L	INYANTRA/REC/ 2021-22
30	GOUDANAVARU SHIVANAND AMASIDDH	OMKAR LECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/202 1-22
31	SAVAKHANDE TEJAS	OMKAR LECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/202 1-22
32	RAJESHIRKE ABHISHEK PRADIP	OMKAR LECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/202 1-22
33	BABAR HEMA SURESH	SAI TECHNOLOGY, SATARA	TRAINEE ENGINEER	1.44 L	SAI/ REC/ 2021-22
34	PHARANDE ROHAN HANMANT	OMKAR LECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/202 1-22
35	NIMBALKAR ANIKET MAHESH	SAI TECHNOLOGY, SATARA	TRAINEE ENGINEER	1.44 L	SAI/ REC/ 2021-22
36	BHANDARE AISHWARYA SANJAY	ABHAY SINGH BHOSALE NSTITUTE TECHNOLOGY, SATARA	ASSI. PROF	1.8 L	2023-24/205
37	CHAVAN KAJAL BALU	INYANTRA TECH PVT LTD SHINDEWADI	TRAINEE ENGINEER	1.8 L	INYANTRA/REC/ 2021-22
38	BHILARE PRIYANKA RAVINDRA	INYANTRA TECH PVT LTD SHINDEWADI	TRAINEE ENGINEER	1.8 L	INYANTRA/REC/ 2021-22
39	PAWAR ANKITA VILAS (PRINT)	OMKAR LECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/202 1-22
40	JADHAV VAISHNAVI SUHAS	APTE MANUFACTURI	SALES COORDINA TOR	2.40 L	AMSPL/HR/F20

		NG LTD SATARA			
41	VIDHATE PRANALI SURESH	PROMPT PERSONNEL	AGENCY CONTRACT OR PROVISION ING & CONFIGUR ATION MANAGEM ENT	2.37 L	PR/REC/2021-22
42	MADIWAL NILRAJ BASURAJ	CEM ELECTROTECH PVT LTD	PROCESS QUALITY ENGINEER	3.20 L	CEM0REC02021- 22
43	SAKUNDE SACHEEN RAMCHANDRA	FLASH ELECTRONICS	SENIOR PCB DESIGNER- R&D	1.80 L	FEIPL/HR/APPT/1 906
44	HAWALE SUVARNA SOMNATH	SAI TECHNOLOGY, SATARA	TRAINEE ENGINEER	1.30 L	SAI/ REC/ 2021-22
45	SAWANT GOURI ASHOK	BSA NEEM	TRAINEE ENGINEER	1.50 L	BSA/PUN/NT/787 4
46	NIKAM SAYALI DHANAJI	HCL TECHNOLOGIE S	SOFTWARE ENGINEER TRAINEE	2.52 L	HCL/REC/2021-22
47	DHAYGUDE HARSHADA ABHAY	APTRON TECH, SATARA	TRAINEE ENGINEER	1.80 L	APT-SO/2021- 22/11-07
48	KADAM MADHAVI PRAKASH	CLEAN MOBILITY TECH	TRAINEE ENGINEER	2.87 L	PVCMT/HR/APP/ 2023/007
49	SHAIKH ASIF RAFIK	INFINITY PUNE	QUALITY CONTROL ENGINEER	2.16 L	INFINITY/22- 23/CF/03

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.

Table 7.4a Quality of students admitted to the program

ITEM		CAY (2022-23)	CAY m1 (2021-22)	CAY m2 (2020-21)
National level entrance examination (JEE)	No. of students admitted	5	3	6
	Opening score/rank	5370	133573	90150
	Closing score/rank	44963	103597	92768
State/University level examination /others (MH-CET)	No. of students admitted	25	33	22
	Opening score/rank	13767	24339	35443
	Closing score/rank	121999	96182	81886
Name of entrance examination for lateral entry (Direct Second Year: MSBTE Diploma Final Semester)	No. of students admitted	23	35	56
	Opening score/rank	11004	11640	6808
	Closing score/rank	39972	68916	58920
Average CBSE/Any other board result of admitted students (Physics, chemistry, Maths)		0	0	0

CRITERION 08	FIRST YEAR ACADEMICS	50
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Please provide First year faculty information considering load for the particular program

Name of the faculty member	PAN	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Currently Associated (Yes /No)			Date Of leaving (In case Currently Associated is 'No')	
							CAY(2022-23)	CAY(2021-22)	CAY(2020-21)		
Ashwini Deepak Kasture	BTSP K5524K	M.Sc	14-06-2017	Mathematics	Assistant Professor	15-06-2012	100	100	100	Yes	
Pooja Ramchandra Bhosale	ERAP B9485B	M.Sc, B.Ed	08-07-2019	Mathematics	Assistant Professor	01-07-2019	100	100	100	Yes	
Vidya Atul Salunkhe	CJPS 9748B	M.Sc	19-05-1999	Mathematics	Assistant Professor	01-08-2019	0	100	100	Yes	
Ms.Swapnali Shinde		M.Sc	30-08-2021	Mathematics	Assistant Professor	01-07-2022	100	0	0	Yes	
Ms.Sonali S.More	EVM P4519P	M.Sc	24/3/2018	Mathematics	Assistant Prof.	2/7/2022	100	0	0	No	31/06/2023
Madan Prabhakar Jagdale	BEGP J8774P	M.Sc	08-07-2019	Mathematics	Assistant Professor	01-07-2019	0	100	100	No	31/05/2022
Ruksar Rajmohamad Sayyad	IWNP S7798C	M.Sc.	04-07-2017	Mathematics	Assistant Professor	01-08-2020	0	0	100	Yes	
Pranita Dadaso Pol	DHZP P7754R	M.Sc.	01-06-2018	Chemistry	Assistant Professor	15-07-2019	0	100	100	Yes	
Komal Rajendra Nikam	BIZP N4929H	M.Sc.	13-07-2015	Chemistry	Assistant Professor	01-06-2019	0	100	100	Yes	
Namita Pratik Mahajan	ETRP B8924A	M.Sc	06-06-2019	Chemistry	Assistant Professor	01-11-2020	0	0	0	Yes	
Priya Yashwant Kuthe	HPUP K3410K	B.E	21-08-2017	Chemical	Assistant Professor	12-10-2021	100	100	0	Yes	

Mrs.Rohi ni Bhosale	ENPP B253 3D	M.S c	30-07-2017	Chemistry	Assistant Professor	21-07-2022	100	0	0	yes	
Tejaswini Dnyaneshwar Jadhav	BUIP J1243 D	M.S c	24-10-2020	Physics	Assistant Professor	17-03-2021	0	100	0	No	31/06/2022
Kanchan Sanjay Mahamuni	EHFP M554 0B	M.S c	24-10-2020	Physics	Assistant Professor	17-03-2021	100	100	0	No	31/06/2023
Ashwini Ankush Babar	AQSP B854 6L	M.S c	11-06-2010	Physics	Assistant Professor	01-06-2019	0	0	100		31/10/2021
Dr. Nitin Ramchandra Jadhav	AGSP J2278 D	M.A	07-03-2020	ENGLISH	Assistant Professor	02-07-2020	100	100	100	Yes	
Nikita Sanjay Bhilare	FBDP B773 5Q	M.A SET	09-07-2019	English	Assistant Professor	16-03-2021	100	100	0	Yes	
Thoravi Rahul Yadav	BLVP M682 2M	MA	10-07-2008	ENGLISH	Assistant Professor	01-06-2019	0	0	100	No	30-04-2021
Aanand Sudhir Shivde	CCLP S6118 J	M.E.	30-09-2014	Mechanical	Assistant Professor	06-01-2019	0	0	100	No	31-07-2021
Kamlesh Kumawat	ENEP K181 2H	M.E.	20-10-2016	Mechanical	Assistant Prof.	03/07/2017	0	0	100	No	31/3/2021
Mr.Amol Ghorpade	BTDP G594 6C	M.E.	10/10/2017	Mechanical	Assistant Prof	1/10/2021	100	100	0	No	2/5/2023
Pratik Manohar Tambe	AXPP T2681 Q	M.E	31-07-2017	Mechanical	Assistant Professor	01-07-2019	100	100	0	No	31-12-2022
Pratik Manohar Tambe	AXPP T2681 Q	M.E	31-07-2017	Mechanical	Assistant Professor	01-07-2019	100	100	0	No	31-12-2022
Pranav Avinash Pathak	BFAP P7243 G	M.E.	20-10-2016	CSE	Assistant Professor	22-08-2011	22	35	38	Yes	
Gujar Vijay Bhanudas	AME PG41 68K	M.E.	22/02/2011	CSE	Assistant Professor	1/11/2020	15	0	0	Yes	

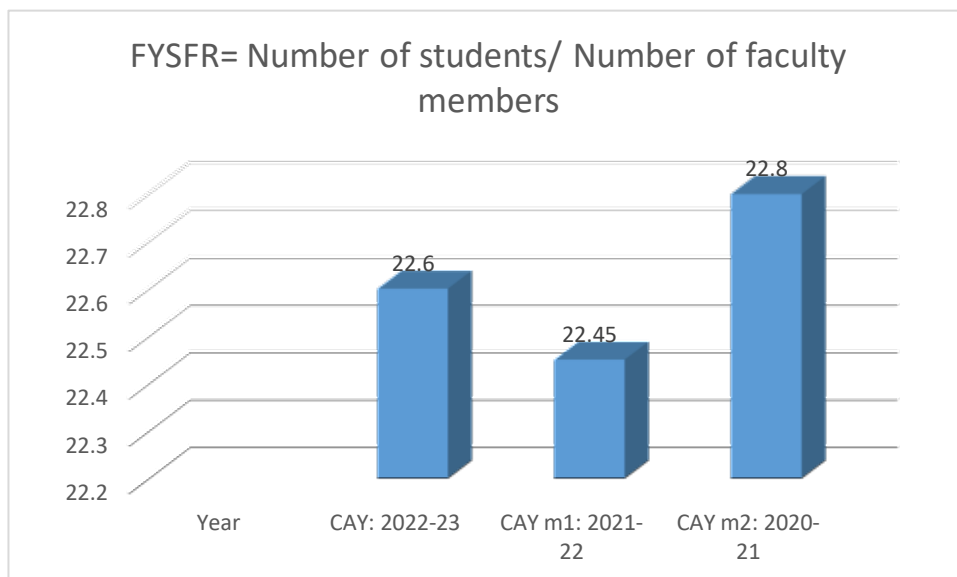
Suraj Shivaji Shinde	EKQP S2010 J M.E/M.Tech	M.E.	12-12-2018	Civil	Assistant Professor	02-12-2021	55	50	0	No	31/05/2023
Abhay V.gujar	ABPP G515 2M	M.E.	26-06-1994	Civil	Assistant Prof.	25/06/2010	0	0	75	Yes	
Sapkal Rajendra	BNH PS302 3E	M.E.	25/06/2013	Civil	Assistant Professor	1/06/2016	50	0	0	Yes	
Diksha Sanjay Jadhav	BGX PJ689 0B	M.Tech	01-06-2019	Civil	Assistant Professor	22-07-2019	0	0	19	Yes	
Kolekar A.B.	GDSP K155 8L	M.Tech	18/01/2019	Civil	Assistant Professor	1/06/2019	0	0	86	No	1/05/2021
Dr. Prashant Ramesh Bamane	BHX PB51 12K	PhD, M.E.	24-12-2014	Civil	Associate Professor	01-09-2021	81	72	0	Yes	
Vishal Sharad Hingmir e	AEBP H837 2K	M.E.	23-11-2013	E & TC	Assistant Professor	12-02-2011	17	13	0	Yes	
Dr.Shinde Deepali	CBQP S4461 N	PhD	24/09/2015	E & TC	Associate Professor	15/02/2023	20	0	0	Yes	
Rahul Prakash Sakhare	FCOP S8416 K	M.Tech	05-06-2017	E & TC	Assistant Professor	07-01-2019	0	0	29	Yes	

8.1 First Year Student-Faculty Ratio (FYSFR)**(05)****Assessment = (5 × 20)/Average FYSFR (Limited to Max. 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 Assessment			21.60
Assessment = (05 x 20)/Average FYSTR			4.62

Graphical Presentation of First Year Student Faculty Ratio



8.2. Qualification of Faculty Teaching First Year Common Courses (05)

Assessment of qualification = $(5x + 3y)/RF$,

x = Number of Regular Faculty with Ph.D,

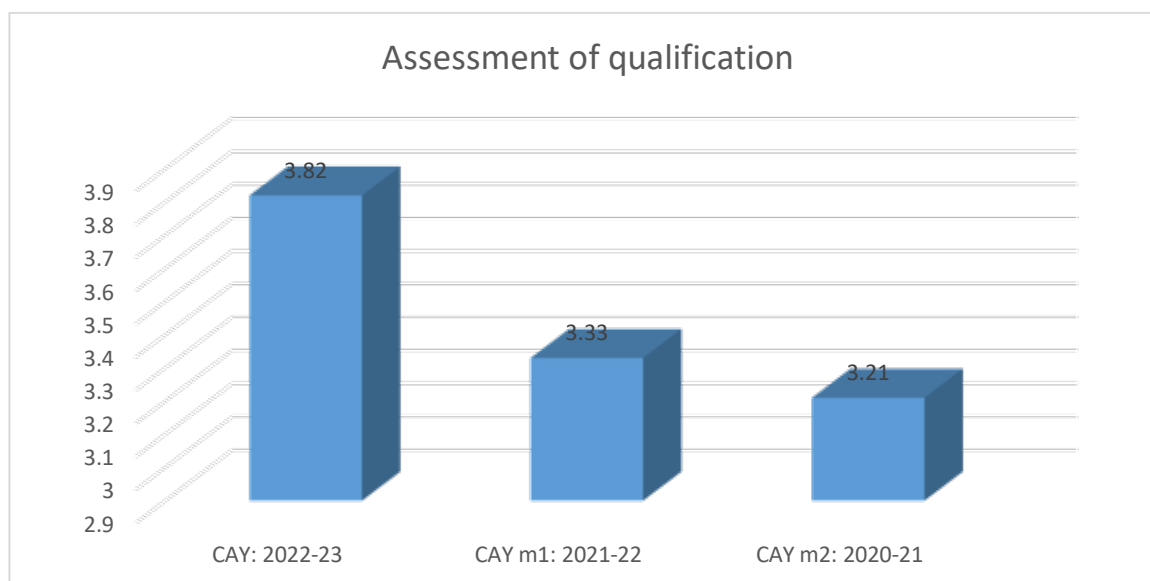
y = Number of Regular Faculty with Post-graduate qualification

RF = Number of faculty members required as per SFR of 20:1

Year	X	Y	RF	Assessment of qualification
CAY: 2022-23	3	16	16.5	3.82

CAY m1: 2021-22	2	15	16.5	3.33
CAY m2: 2020-21	1	16	16.5	3.21
Average Assessment of Qualification				3.45

Graphical Presentation of Assessment of Qualification:



8.3. First Year Academic Performance

(10)

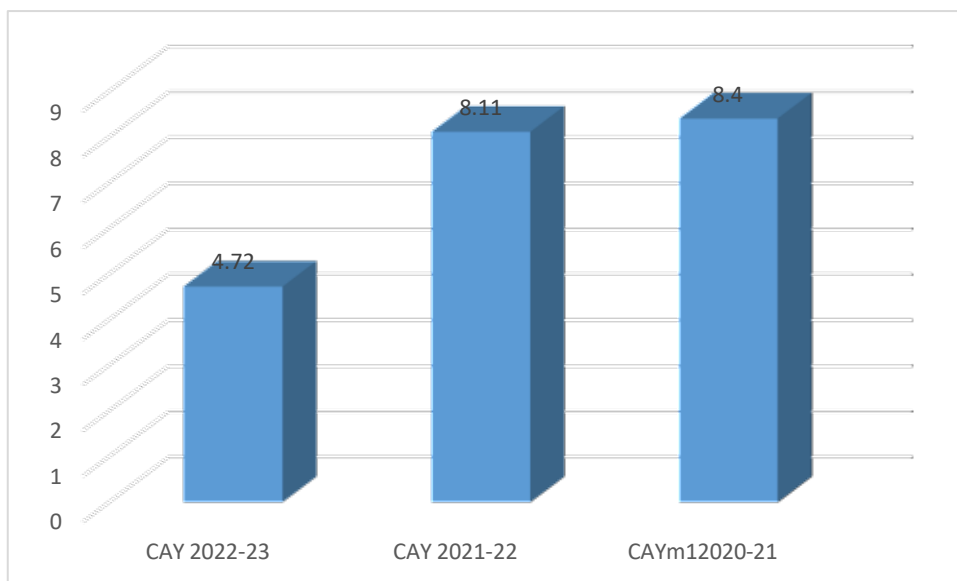
Academic Performance (AP) = (Mean of the percentage of marks in First Year of all successful students/10) x (number of successful students/number of students appeared in the examination)

Year	Mean of the % marks of successful student X	X/10	Total Successful students y	Total Appeared Students Z	AP	AVE. API
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
2022-21	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
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 (E & TC)	Mean of the % marks of successful student X	X/10	Total Successful students y	Total Appeared Students Z	AP	AVE. API
CAY 2022-23	69.7	6.97	25	34	4.72	7.08
CAY 2021-22	81.1	8.11	45	45	8.11	
CAYm12020-21	84	8.4	29	29	8.4	

Graphical Presentation of Academic Performance



8.4. Attainment of Course Outcomes of first year courses (10)

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (05)

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 (05)

For Electronics and Telecommunication 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->67 - 100% student score Level 2- 55 - 66% student score Level 1- 40 - 54% student score
2	CA Test	Level 3->67 - 100% student score Level 2- 55 - 66% student score Level 1- 40 - 54% student score
3	MSE	Level 3->67 - 100% student score Level 2- 55 - 66% student score Level 1- 40 - 54% student score
4	LAB	Level 3->80 - 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 relevant PO and/or PSO, if applicable Indicate results of evaluation of each relevant PO and/or PSO, if applicable(15) CO-PO set level indicating Matrix

Academic year 2022-23(E&TC)

Course Code	Course	CO1	CO2	CO3	CO4
BTBS101	Engg. Mathematics-I	1.10	1.05	1.20	1.20
BTBS102	Engg. Physics	1.20	1.05	0.80	1.10
BTES203	Engg. Graphics	1.50	1.60	1.25	1.70
BTHM104	Communication Skill	2.70	2.80	2.78	2.80
BTES105	Energy and Environment Engg.	2.20	2.25	2.20	2.30
BTBS102L	Engineering Physics lab	2.00	2.00	2.00	2.00
BTES106	Basic Electrical and Electronics Engg. (Audit sub)	2.70	2.60	2.70	2.70
BTES108L	Engineering Mechanics Lab	2.40	2.40	2.40	2.40
BTES108L	Engineering Graphics Lab	2.00	1.40	2.00	1.40
BTHM109L	Communication Skills Lab	2.00	2.00	2.00	2.00
BTBS201	Engg. Mathematics-II	1.40	1.55	1.52	1.40
BTBS202	Engg. Chemistry	1.20	1.05	0.95	1.00
BTES203	Engg. Mechanics	2.40	2.35	2.35	2.30
BTES204	Computer Programming in C	1.60	1.68	1.70	1.30
BTES205	Workshop Practice	2.40	2.40	2.40	2.40
BTES206	Basic Civil and Mechanical Engineering(audit sub)	2.90	2.90	2.80	3.00
BTBS107L	Engineering Chemistry Lab	3.00	3.00	3.00	3.00
BTES210S	Seminar	2.00	2.00	2.00	2.00

Core Science and Engineering CO-PO Attainment 2022-23 (E&TC Engineering)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO1 1	PO12	PS O 1	PS O 2
M1	0.72	1.08	0.96	1		0.5					0.95	0.7	0.4 7	0.4 7
CHEM	1.05	0.23				0.12	0.48		0.23					
MECHANICS	1.38	1.58	2.11	1.32	0.79		1.32					1.78	0.9 9	0.7 9
Comp Prog In C	1.81	1.51	1.81	1.21	1.51							1.21	0.6	

BEEE	1.8				2.7	1.77							0.9	0.88
Engg Chem Lab	2.94	2.94				2.94	2.93		2.94				2.93	
Engg Mech Lab	2.22	2.42	1.62			0.81	0.81		0.81	0.81		0.81	2.42	0.81
Workshop	1.23				1.91				0.82	0.41			0.21	
M2	0.82	1.27	1.18	1.09		0.55					1.09	0.84	0.55	0.55
Phy	0.96	0.96	0.96	1.44		1.44	1.44					0.96	0.48	
Graphics	1.73	1.73	1.02	1.17	1.68		1.31		1.19	1.16	1.22	0.72	1.73	0.58
Comm skills					0.95			1.39	2.28	2.55		1.85		0.94
EEE	1.82		1.96		1.53		2.33		1.56	1.57		1.93		
BCME	0.72	1.41	0.93	0.93	0.62					1.28	0.95	0.96	1.43	0.95
Phy lab	1.43	1.43	1.43	2.14		2.14	2.14					1.43	0.71	
Gaphics lab	0.45	1.26	0.63			0.14	0		0.71	0.55		0.63	0.9	0.63
Comm skills lab					0.73			1.09	1.78	1.98		1.44		0.72
Seminar									1.88	1.88		1.24	0.7	0.71

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	1.30	1.00
AY 22-23	1.41	1.48	1.33	1.29	1.38	1.16	1.42	1.24	1.42	1.35	1.05	1.18	1.07	0.73

8.5.2. Actions taken based on the results of evaluation of relevant POs (05)

Academic Year-2022-23

POs Attainment Levels and Actions for Improvement- (2022-23)

POs Attainment Levels and Actions for Improvement- (2022-23)

POs	Target Level	Attainment Level	Observations

PO 1 : Engineering Knowledge

PO 1	2.00	1.41	<p>Target is attained</p> <ul style="list-style-type: none"> ● Students understood the fundamentals of engineering very well
Action: 1. Higher target will be set for the next academic year.			

PO 2 : Problem Analysis

PO 2	2.20	1.48	<p>Target is attained</p> <ul style="list-style-type: none"> ● The students have shown excellent results for literature review and identified problems related to engineering
Action: 1. The same target will be considered for the next academic year. 2. More focus will be given to developing new ideas to tackle the problems.			

PO 3: Design/development of Solutions

PO 3	2.14	1.33	<p>Target is attained</p> <ul style="list-style-type: none"> ● The students found it easy to identify the problems related to public health and safety, and also cultural, societal needs
Action: 1. The same target will be considered for the next academic year. 2. More focus will be given to practical, experiments, projects to improve their skills and not merely learning.			

PO 4 : Conduct Investigations of Complex Problems

PO 4	2.44	1.29	<p>Target is attained</p> <ul style="list-style-type: none"> ● The industrial visits were arranged for students ● The internship was made mandatory. Hence the target was easily attained.
Action: 1. The same target will be considered for the next academic year. 2. As teaching and learning is at an advanced level, more emphasis is given on the use of latest technology.			

PO 5 : Modern Tool Usage

PO 5	1.44	1.38	Target is attained ● Use of the National Program of Technical Enhance Learning (NPTEL) as a teaching resource has been implemented.
Action: 1. The same target will be considered for the next academic year. 2. More thrust will be given for the use of various modern tools like ICT panels, MOODLE, PPTs, and Digital Library.			

PO 6 : The Engineer and Society

PO 6	1.43	1.16	Target is attained ● The students could assess societal, health, safety, legal and cultural issues, clearly.
Action: 1. The same target will be considered for the next academic year. 2. A strong bond will be forged with society by addressing their needs by conducting activities like exhibitions, and group discussions on societal needs related to engineering and professionalism, are organized.			

PO 7 : Environment and Sustainability

PO 7	2.25	1.42	Target is attained - Concerns of the students towards environmental issues are incredible. The approach of the students towards sustainable growth is well-developed
Action: 1. The same target will be considered for the next academic year. 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	1.24	Target is attained - The awareness and importance of ethics and principles of professionalism have been created.
Action: 1. The same target will be considered for the next academic year. 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	1.42	Target is attained - It is observed that the students are working as a team while working on projects.
Action: 1. The same target will be considered for the next academic year. 2. The students will be motivated to participate in co curricular and extra curricular activities.			

PO 10 : Communication

PO 10	2.26	1.35	Target is attained - It is observed that the students have competence in linguistic, oratory, communication and computing skills.
Action: 1. The same target will be considered for the next academic year. 2. Soft skills programme and expert lecture will be arranged to highlight its importance and necessity in daily life and also the industry in particular.			

PO 11 : Project Management and Finance

PO 11	2.00	1.05	Target is attained - The students' knowledge of project management is inadequate.
Action: 1. The same target will be considered for the next academic year. 2. Mini projects from the first year itself will help the students' to improve their understanding of the topic, cultivating team spirit, problem-solving ability, and managerial skills will be included.			

PO 12 : Life-long Learning

PO 12	2.00	1.18	Target is attained - The concept of life long learning is inculcated among the students.
Action: 1. The same target will be considered for the next 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 09	STUDENT SUPPORT SYSTEMS	50
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9.1 Mentoring system to help at individual level**(05)**

The role of the faculty as a Guardian Faculty mentor is one of nurturing support for a student during the transition period in academic, professional as well as personal augmentation. In all departments of the Institution, mentoring is a continuous process where Guardian faculty mentors serve as a resource who will respond to many questions, that the student might pose; support students in choosing course work that meets their needs and interests; encourage students to actively participate in seminars and laboratory work that are realistic in scope; and counsel the students on any other academic, professional, personal growth, etc., for necessary advice/guidance/help.

Guardian Faculty Mentor:

- For monitoring the overall development of students and encourage the students to participate in all grooming activities conducted by various cells, one faculty is assigned as Guardian Faculty Mentor to every batch consisting the 15 students.
- The guardian faculty mentor conducts periodical meeting with students in order to evaluate their academic performance and proper orientation towards the program, as well as guide them to rectify any shortcomings and to solve any problems.
- Every GFM is in contact with parents of respective students and communicates them about student performance, attendance and any other issues.
- GFM discuss the various policies conducted by the Institute with students and helps them take maximum benefits from them.
- Students are motivated and guided to participate in co-curricular and extra-curricular activities.
- GFM helps students for solving their personal issues such as psychological issues, confidence level, negative emotional management, leadership quality, time management, teamwork etc.
- **Following issues are discussed with students:**
 - i. Attendance
 - ii. Personal issues
 - iii. Behavior
 - iv. Understanding problems
 - v. Difficulty in writing/ speaking
 - vi. Confidence level
 - vii. Hostel/Food issues(Homesickness)
 - viii. Girl's/Women's issues
 - ix. In case of any other observations, it is noted and discussed.

1. Class Advisor:

A class Advisor is appointed to monitor & coordinate the activities of the respective class. Class Advisor maintains a record of defaulter list, roll call list, etc. and mentors the students related to academic performance, less attendance, etc.

2. Academic Guidance:

- Support to improve performance of students: Based on the previous year's result and Mid Semester Examination performance and overall behavior of students; weak and bright students are identified in each class and appropriate mentoring is done to improve the performance of weak students and motivate bright students.
- Remedial classes are conducted for students who have backlogs. Unit wise discussion is conducted in each remedial session.
- Program coordinator, course coordinators, class Advisors & GFMs continuously communicate with students and motivate them to perform well in academics and enhance their knowledge through various modes like Add on courses, internships, etc.
- Parents-Teacher Meeting is held once in semester to brief the progress of their wards to their parents. This process has improved students' academic performance, attendance and participation in co-curricular and extra-curricular activities.

3. Professional and Career Guidance:

- A dedicated **Training & Placement Coordinator (TPC)** is appointed by the institute to coordinate the placement related activities.
- Various career guidance sessions like higher education opportunities in India and abroad, latest trends in industries etc. are conducted throughout the year for students to enhance their vision and broaden their mindset to lead their lives on a successful career path.
- Apart from higher education opportunities, sessions like aptitude training, group discussion sessions, interview preparations, etc. are regularly conducted by TPCs to improve students' performance in placement activities for various companies.
- On the technical front, several technical training sessions are conducted by course coordinators and industry persons alike for students to keep them updated with latest technical knowledge.

- Students are encouraged to take part in various co-curricular & extra-curricular events to ensure their all-round development by participating and organizing such events at regular intervals.

Efficacy of Mentoring System:

- After mentoring and counseling it was observed that the academic performance of students improved.
- Also some of abilities such as time management, teamwork, goal setting and softskills were improved.
- In some cases, it helped students to overcome in securities about their abilities as an engineering student and encouraged them to prepare for the next steps in their academic program and career.

 <p>SAMARTH EDUCATIONAL TRUST ARVIND GAVALI COLLEGE OF ENGINEERING, Satara. Panmalewadi, Varye, Tal. & Dist - Satara - 415 015</p> <p>Approved by AICTE, Govt. of Maha. & Affiliated to DBATU Lonere</p> <p>INSTITUTE CODE: 6545</p> <p>Email: agceenggsatara@gmail.com</p> <p>Website: www.agce.edu.in</p> <p>ENGINEERING</p>  <p>PROGRESS REPORT DIARY</p> <p>Engg : 9957100100 Poly : 9069700100</p>	<p>PERSONAL DETAILS (2022-23)</p> <p>Name of Student :- Babae Peatiksha Umesh</p> <p>Address :- At. Post - Kikali Tal - Wai Dist - Satara</p> <p>Student Mobile No:- 8975511652</p> <p>Parent Mobile No:- 8975404131</p> <p>Parents Occupation:- Farmer</p> <p>E-mail:- babaspeatiksha123@gmail.com</p> <p>Branch :- E & TC</p> <p>Blood Group:- O+ve</p> <p>Class :- TY BTech</p> <p>Roll No:- 2065451372015</p> <p>GFM Name :- Hingmike Sir</p> <p>GFM Mob No:- 8482875175</p>  <p>Note: • Students having attendance more than 75% are eligible for Institute Scholarship. • Laptop / Tablets are allowed during practical for academic purpose.</p>
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9.1 a: GFM Diary

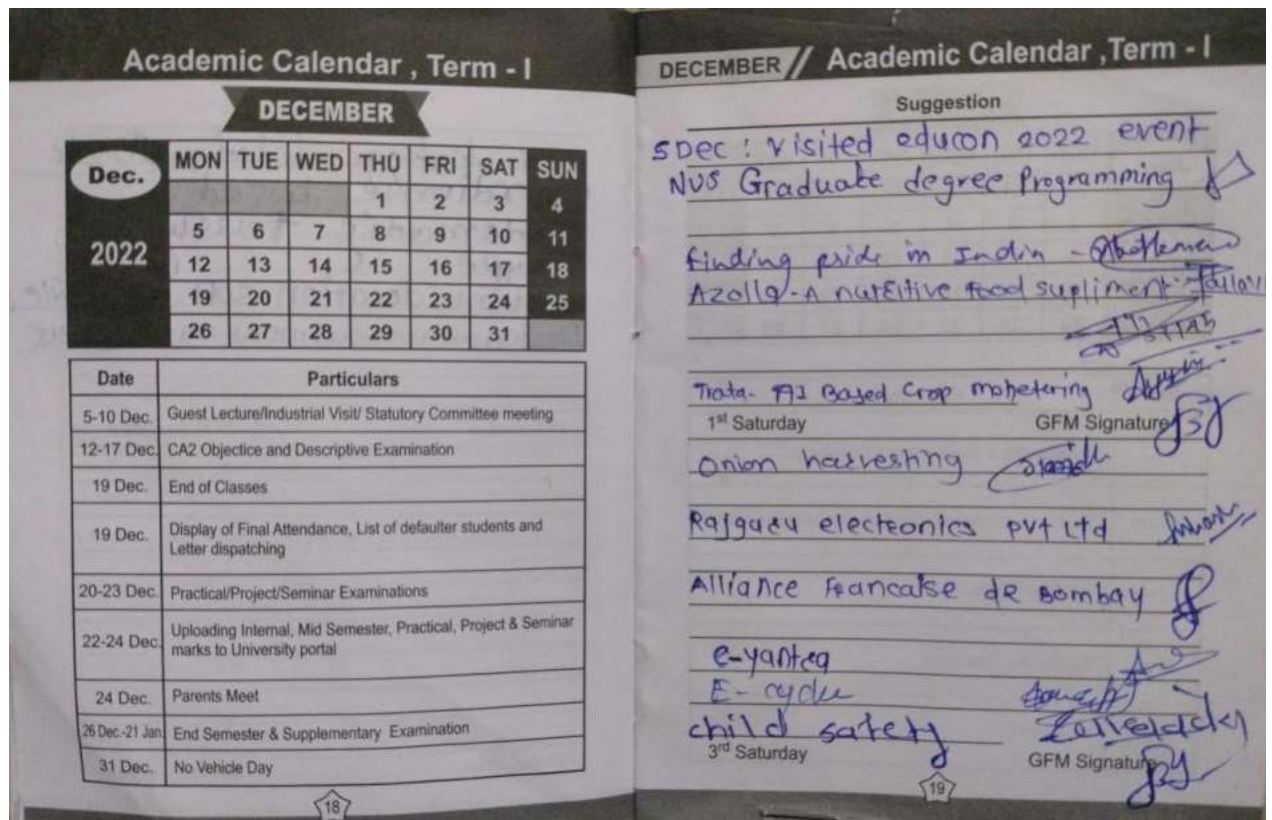


Fig. 9.1.b: GFM Diary

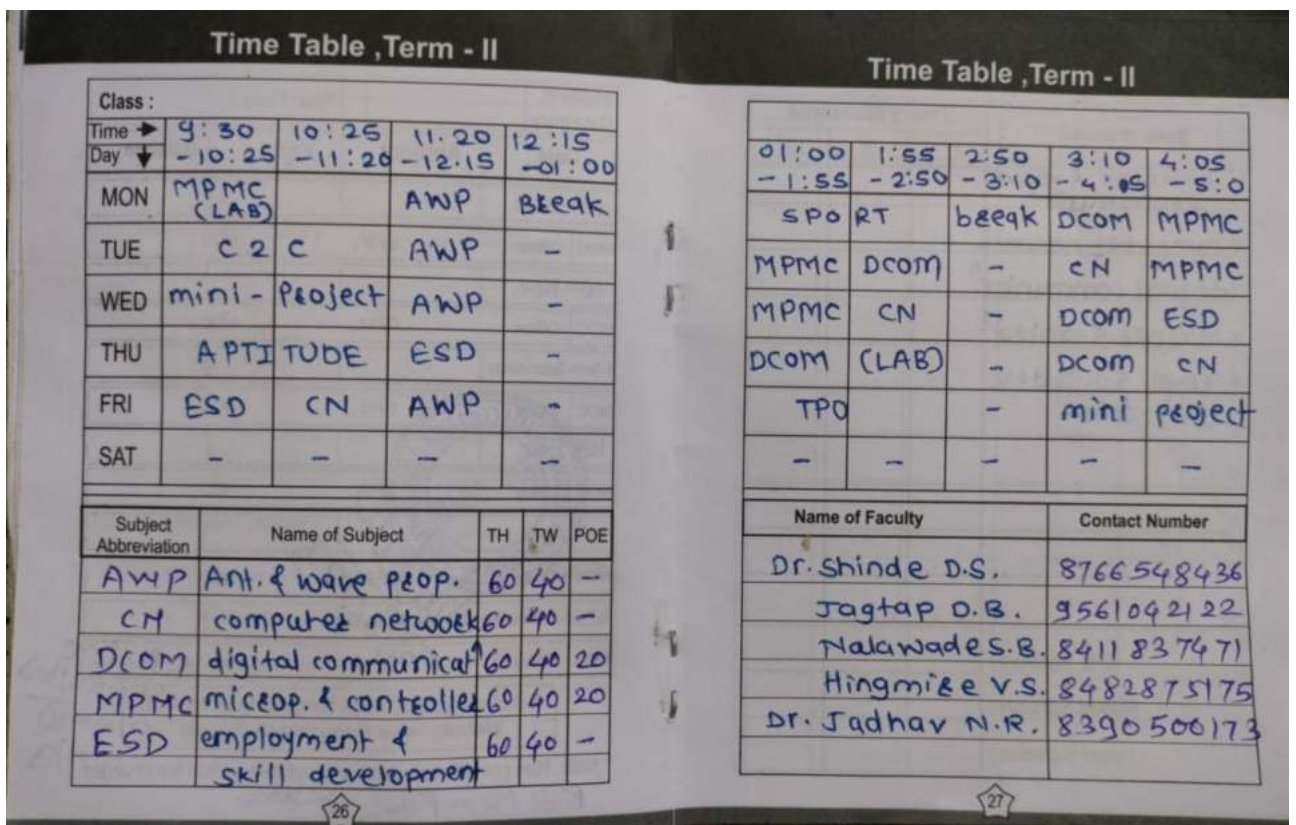
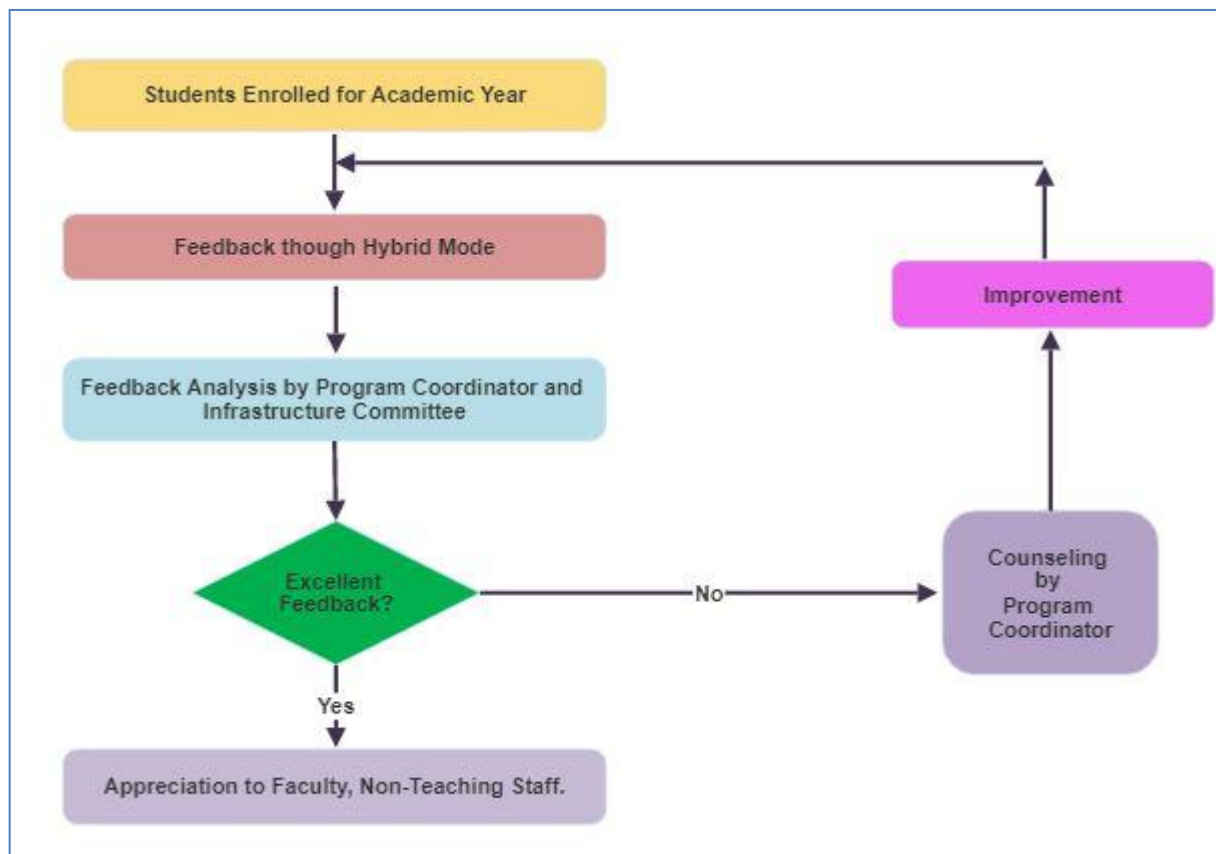


Fig. 9.1.c: GFM Diary

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 / GoogleForm) from students with above average attendance. This feedback is completely anonymous and students are encouraged to give their honest feedback.

The feedback is collected on five-point scale

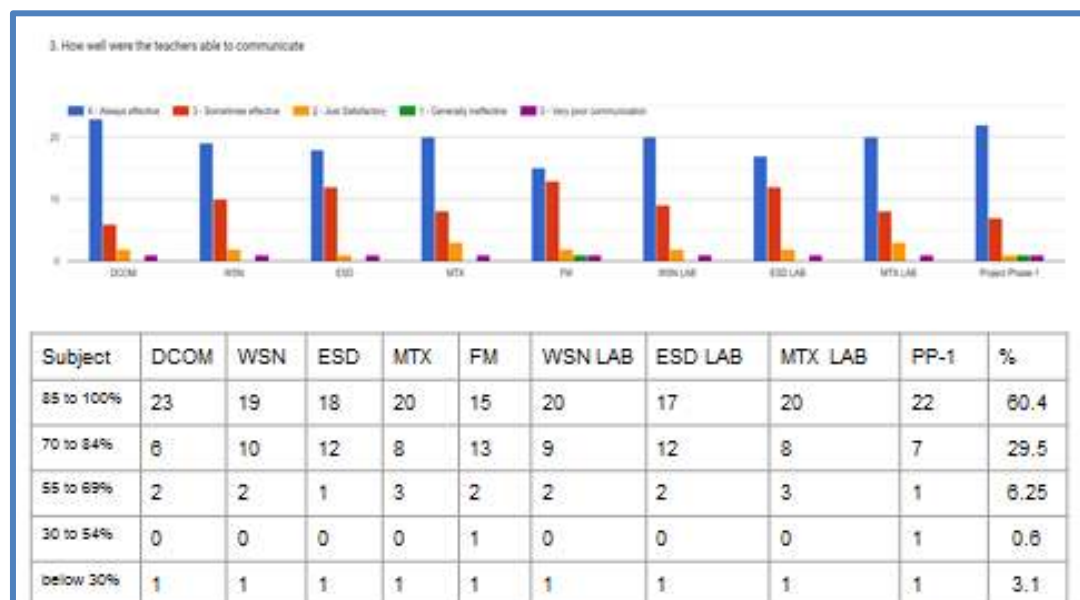
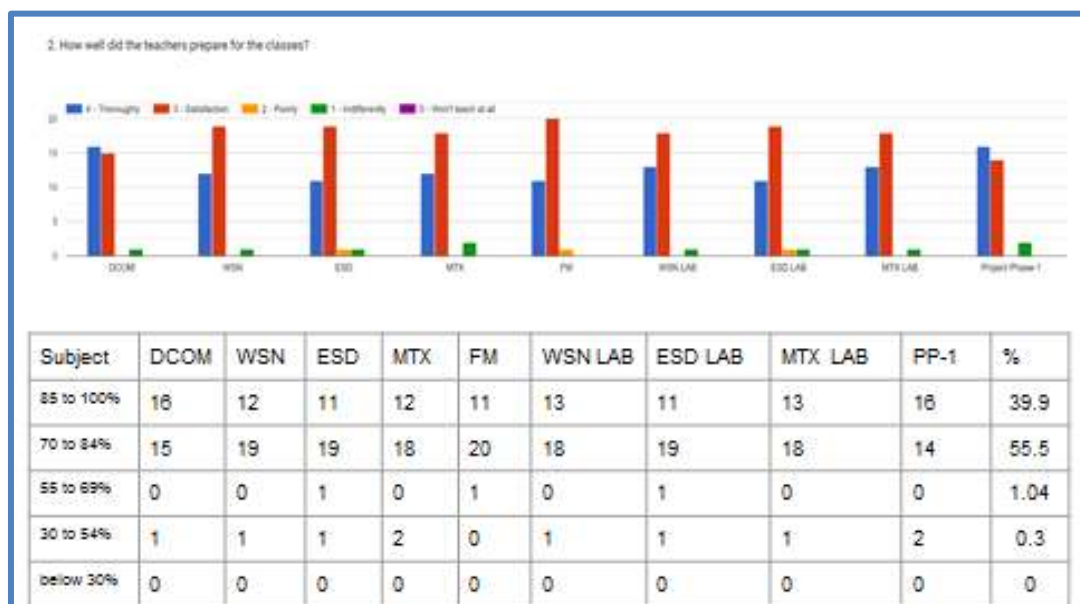
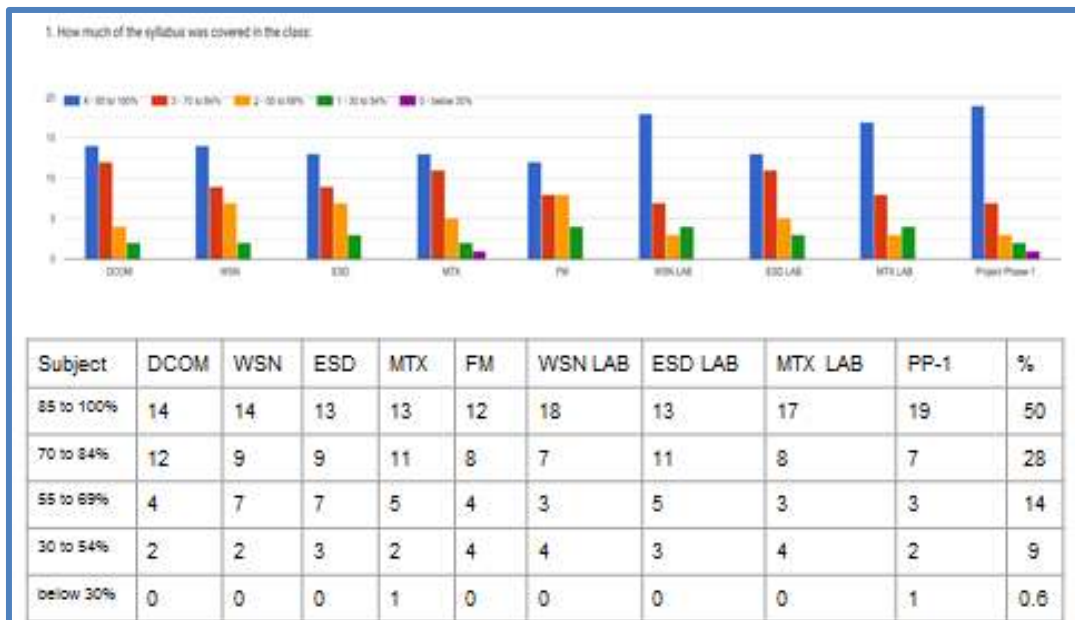
Arvind Gavali College of Engineering, Satara
Department of Electronics &
Telecommunication Engineering

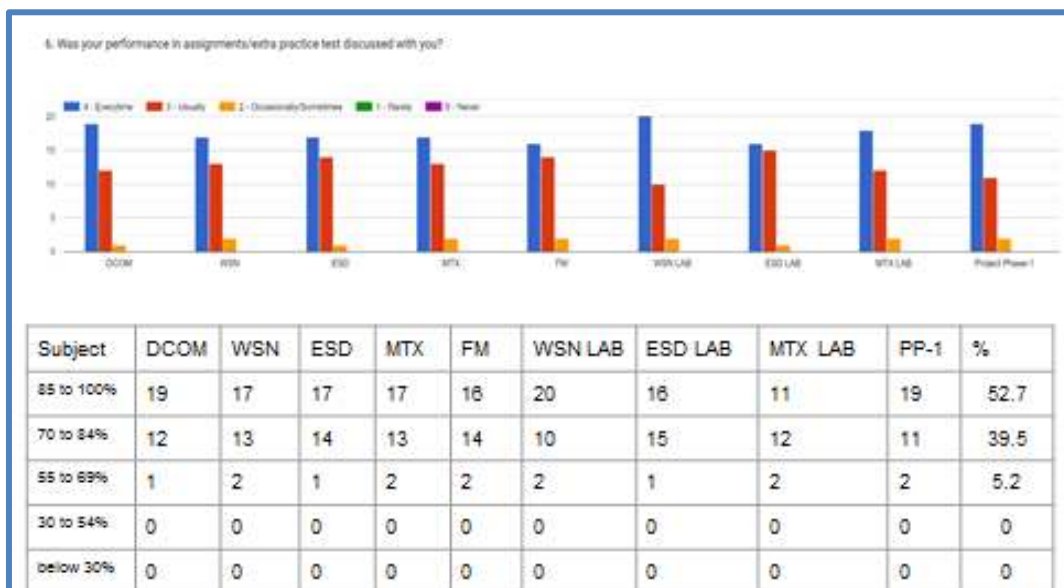
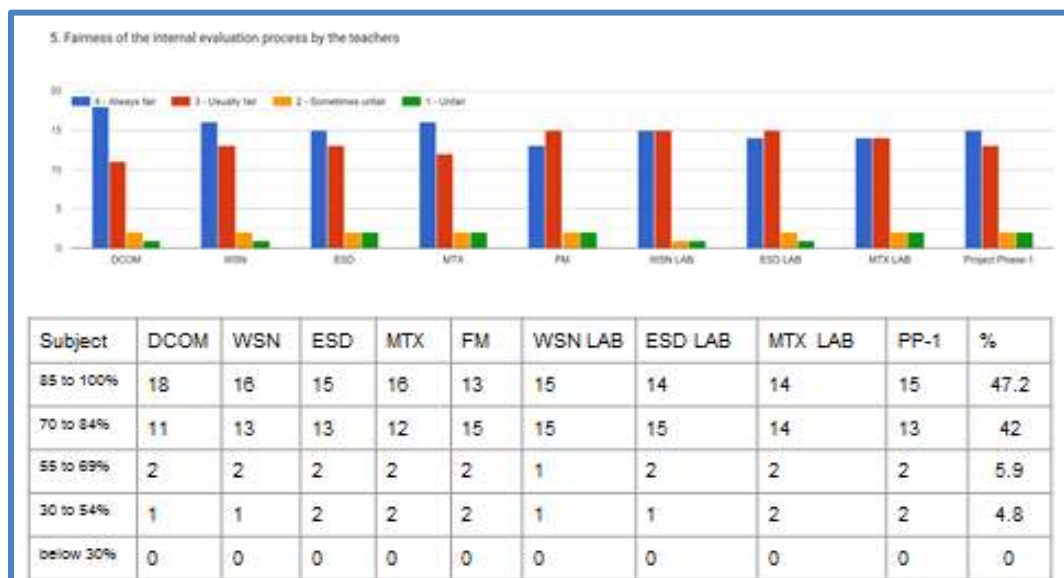
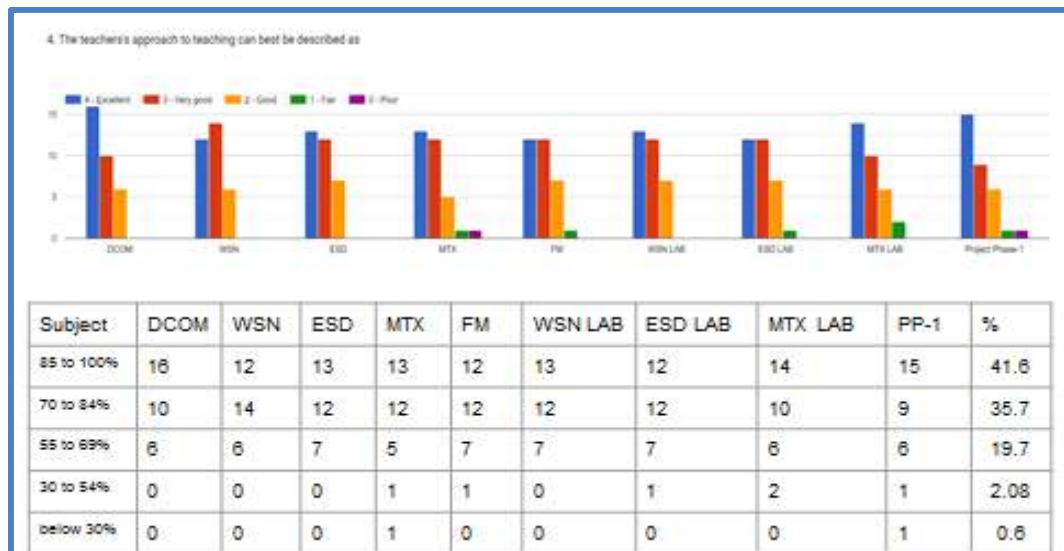
Final Year Feedback

Month : NOV-DEC 2022-23
Total Responses : 58
Total Class Strength : 32
Feedback Percentage : 55%

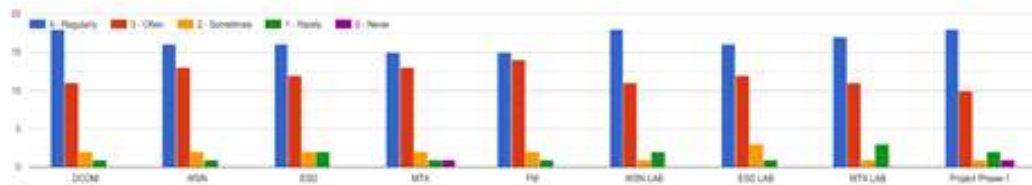
FACULTY – SUBJECT DISTRIBUTION

Sr. No.	Subject	Abbrev.	Name of Faculty	Abbrev
01	Digital communication	DCOM	Mr.Jagtap D.B.	MGS
02	Wireless Communication	WSN & WSN LAB	Mr. Chavan S.G.	CSG
03	Embedded system	ESD & ESD LAB	Mr. Patil M.D.	PMD
04	Mechatronics	MTX & MTX LAB	Miss.Nalawade S.B	NSB
05	Financial Management	FM	Mr. Deshmane N.K.	DNK



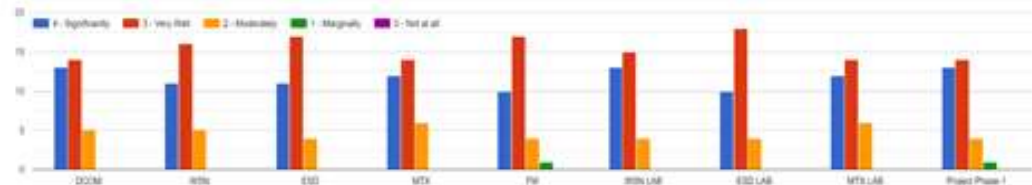


7. The faculty takes active interest in promoting internship, student exchange, field visit opportunities for students. *



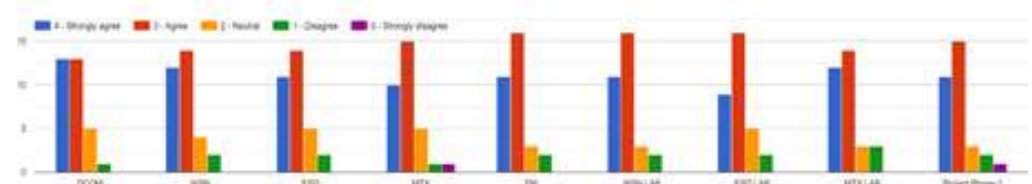
Subject	DCOM	WSN	ESD	MTX	FM	WSN LAB	ESD LAB	MTX LAB	PP-1	%
85 to 100%	18	16	16	15	15	18	16	17	18	51.7
70 to 84%	11	13	12	13	14	11	12	11	11	37.5
55 to 69%	2	2	2	2	2	1	3	1	1	5.5
30 to 54%	1	1	2	1	1	2	1	3	2	4.8
below 30%	0	0	0	1	0	0	0	0	1	0.6

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

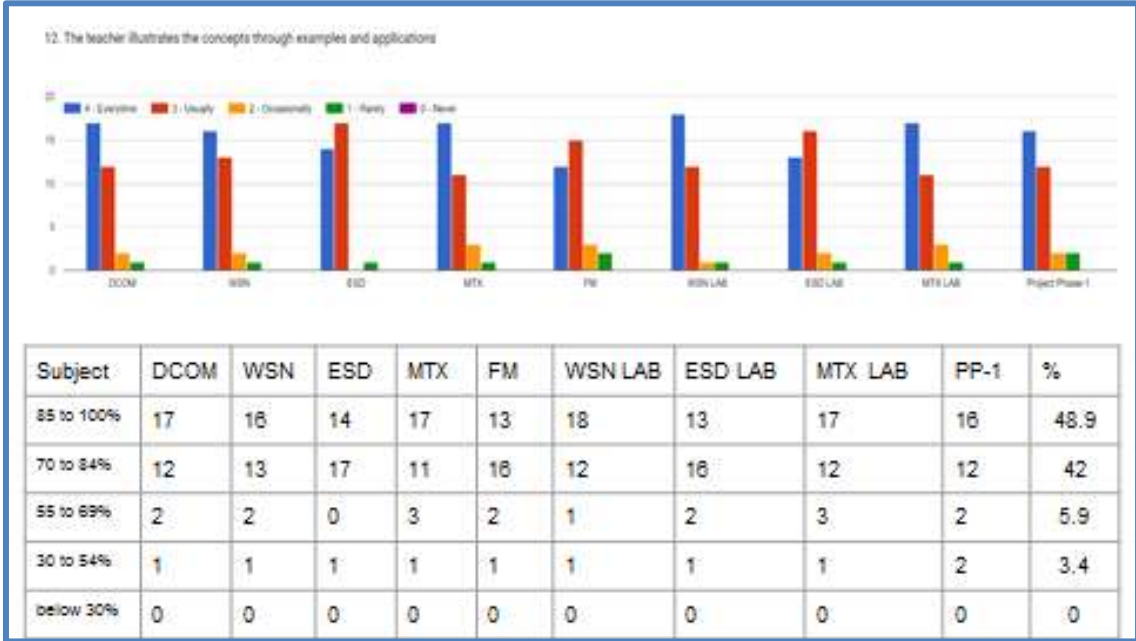
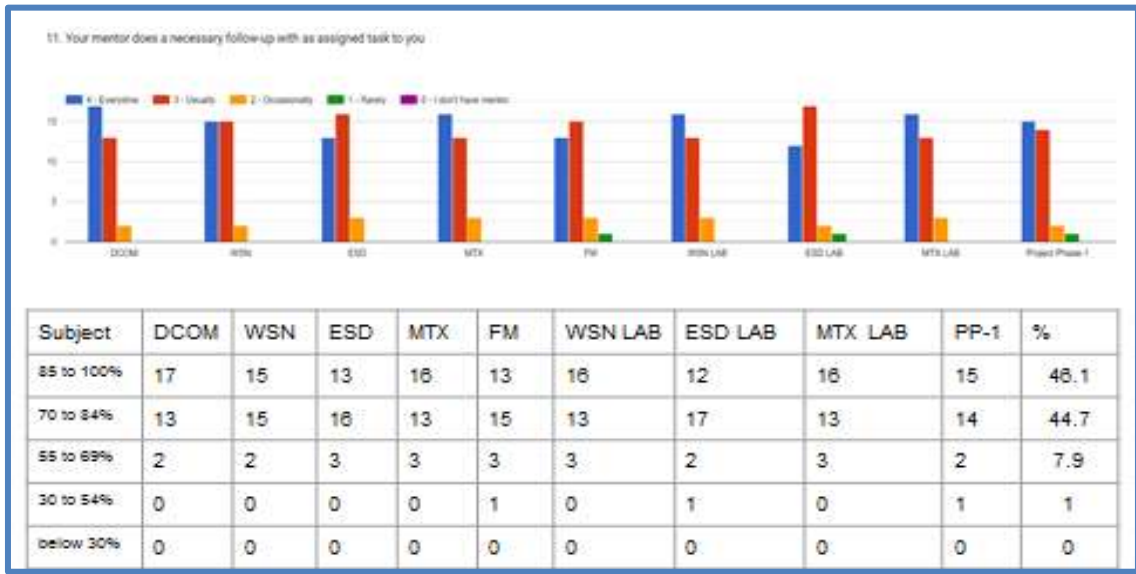
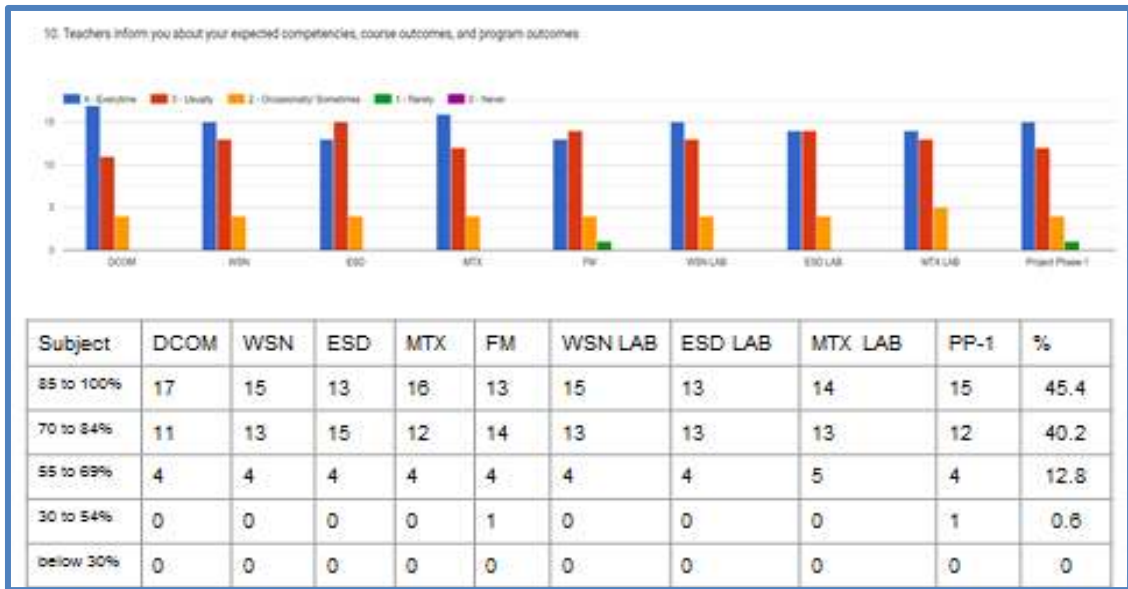


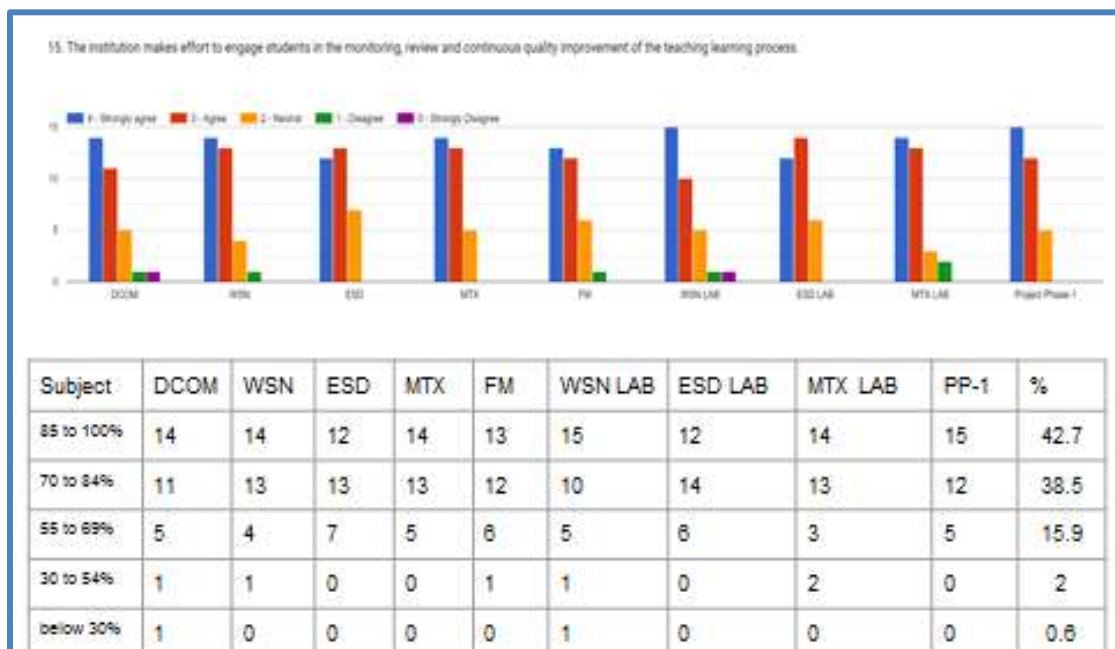
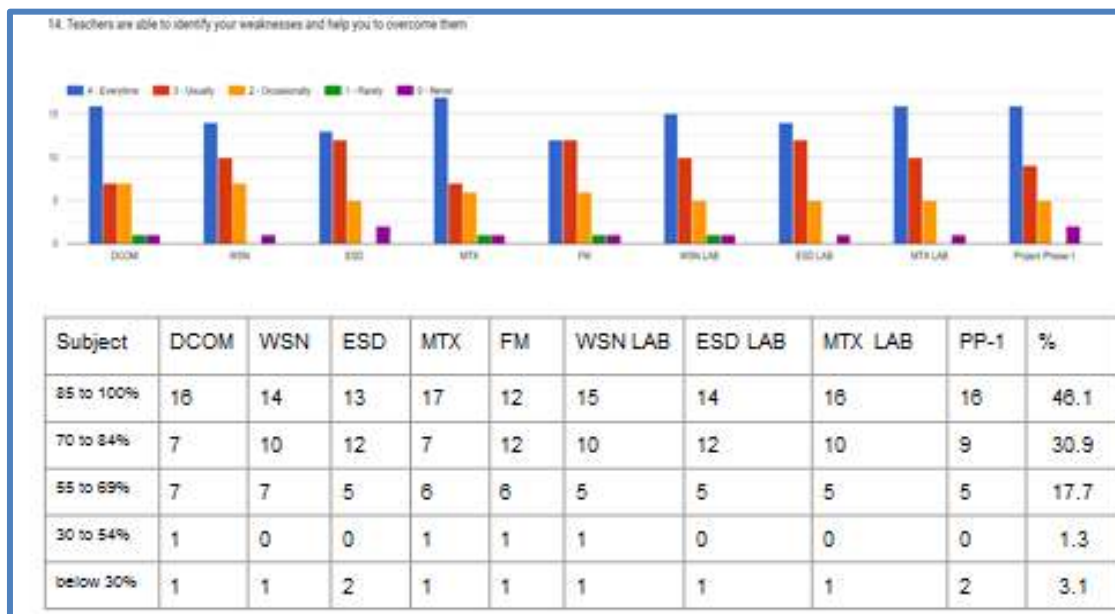
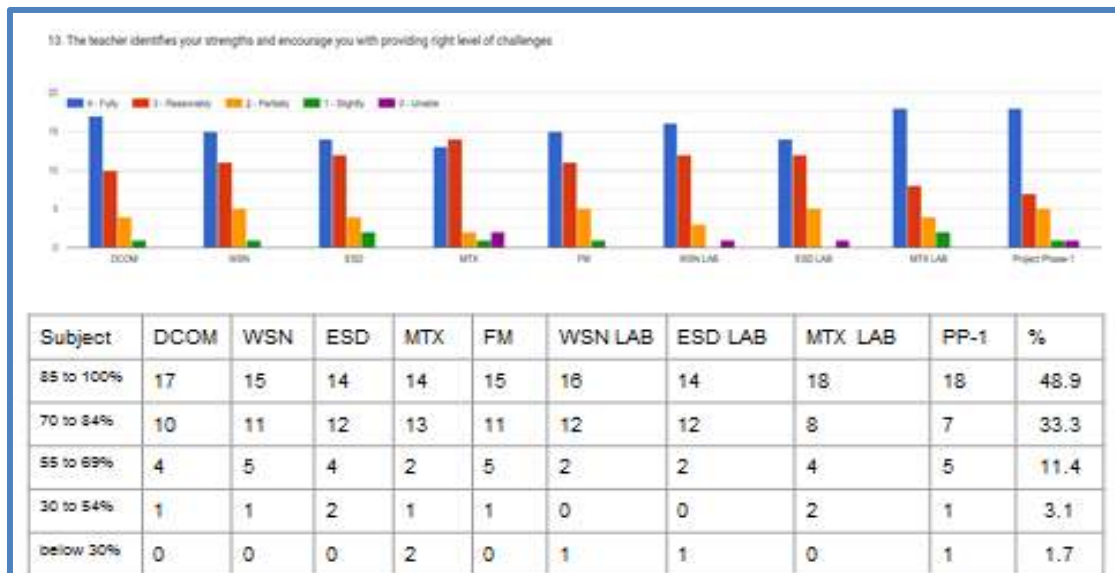
Subject	DCOM	WSN	ESD	MTX	FM	WSN LAB	ESD LAB	MTX LAB	PP-1	%
85 to 100%	13	11	11	12	10	13	10	12	13	36.4
70 to 84%	14	16	17	14	17	15	18	14	14	48.2
55 to 69%	5	5	4	6	4	4	4	6	4	14.5
30 to 54%	0	0	0	0	1	0	0	0	1	0.6
below 30%	0	0	0	0	0	0	0	0	0	0

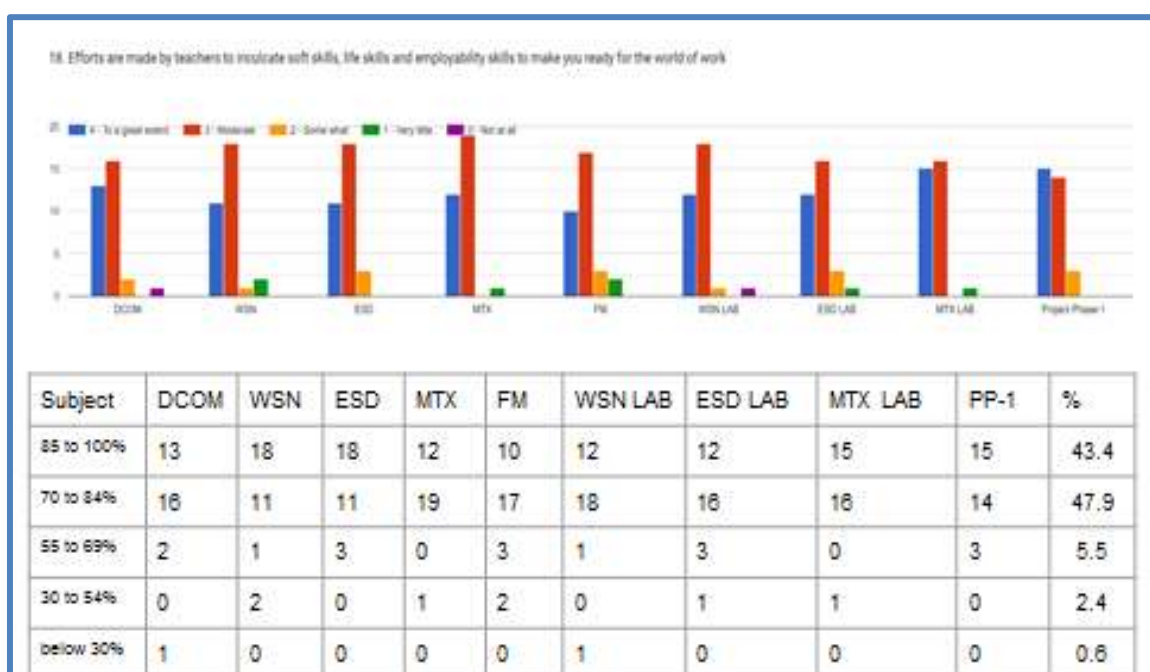
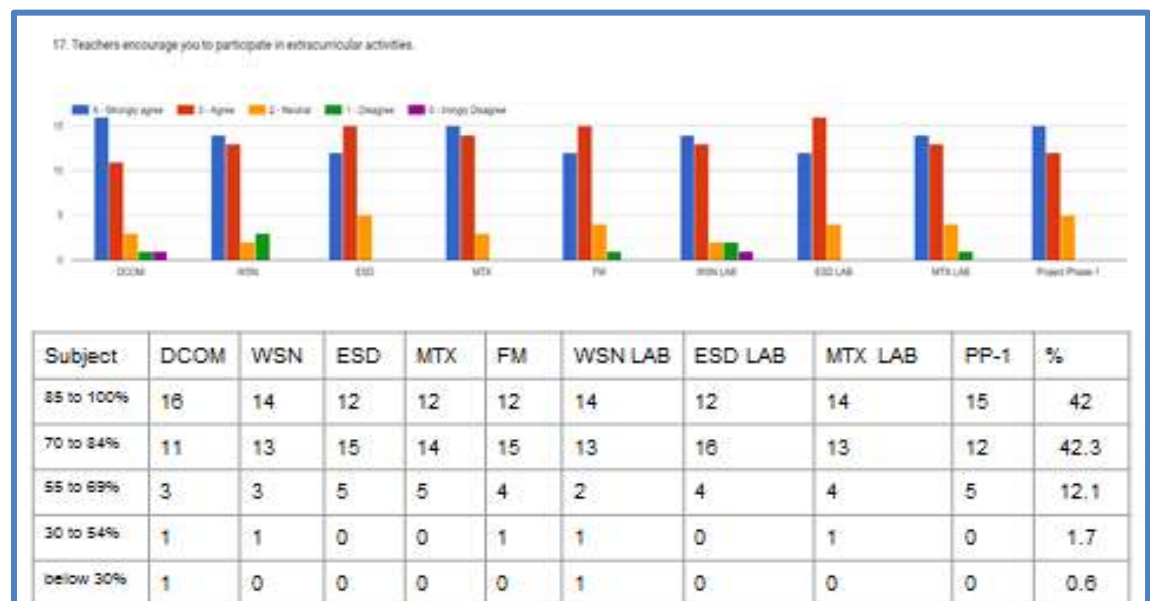
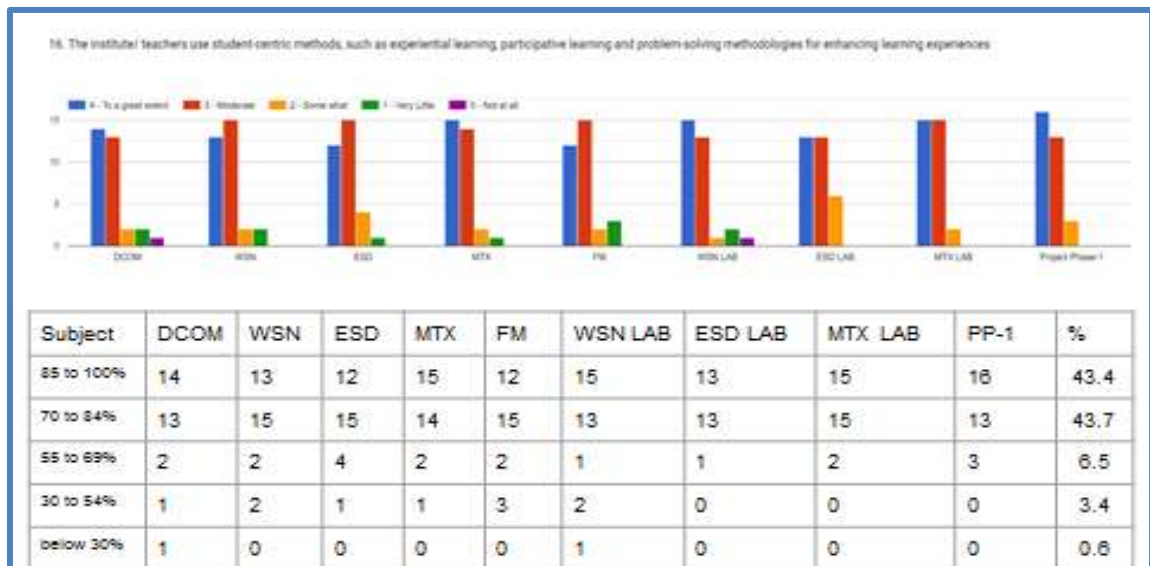
9. The institute provides multiple opportunities to learn and grow

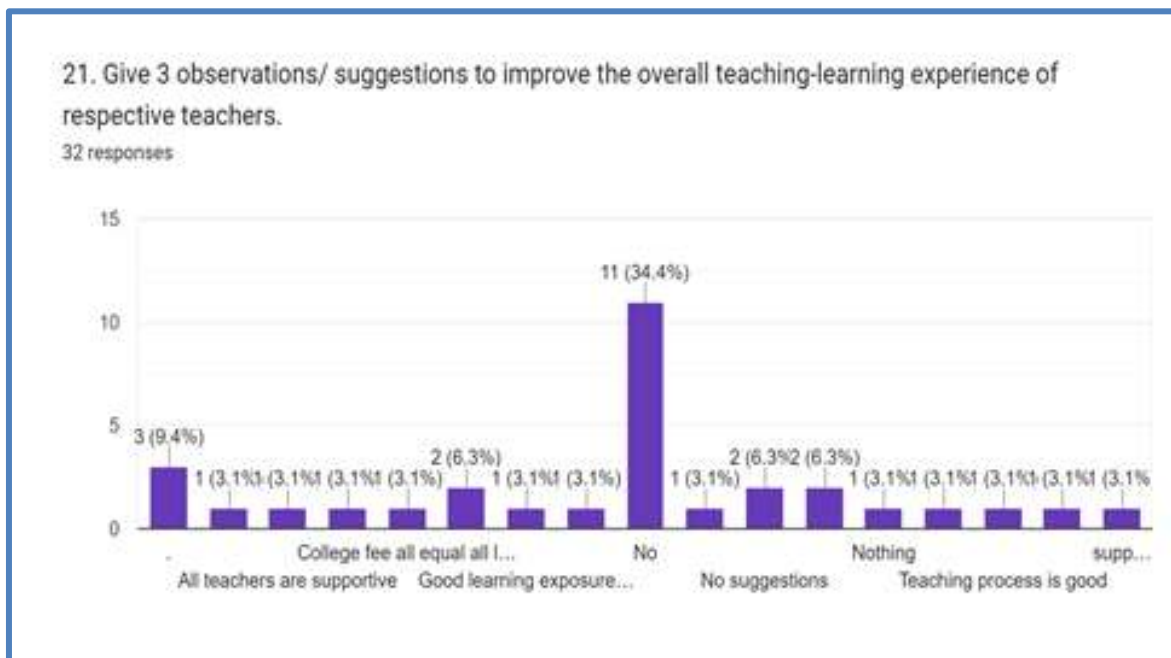
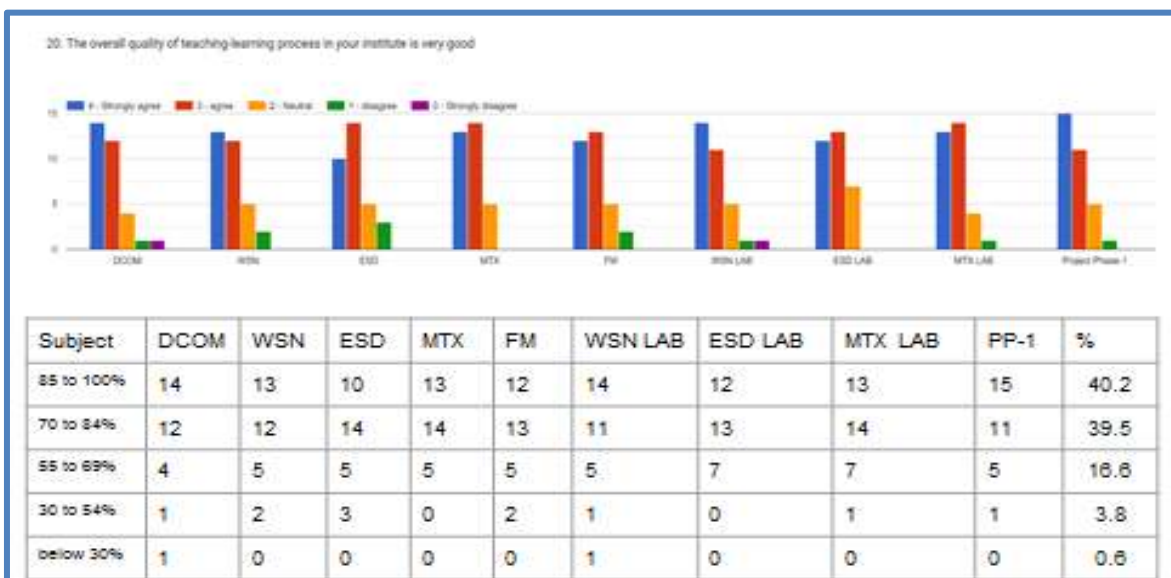
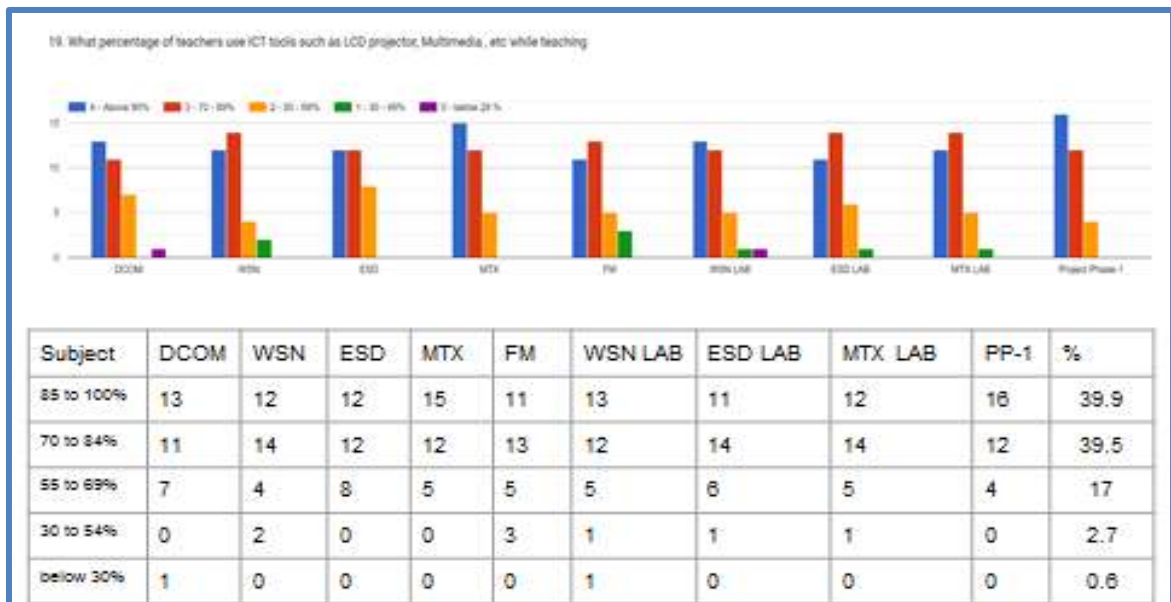


Subject	DCOM	WSN	ESD	MTX	FM	WSN LAB	ESD LAB	MTX LAB	PP-1	%
85 to 100%	13	12	11	10	11	11	17	12	11	37.5
70 to 84%	13	14	14	15	16	16	14	14	15	45.4
55 to 69%	5	4	5	5	3	3	3	3	3	11.8
30 to 54%	1	1	2	1	2	2	3	3	2	5.9
below 30%	0	0	0	1	0	0	0	0	1	0.6









Give 3 Observation/Suggestion to improve the overall teaching learning experience of respective teachers

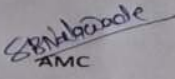
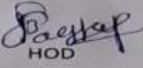
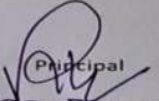
1. We need industrial experts for teaching , more guest lectures , workshops should be arranged for interview training.
2. Communicate with every students.
3. Teaching Learning Process is good.
4. Learning experience are wonderful for all subjects.
5. Increase soft skills program.

Fig. 9.2.b: Feedback Collection

Overall Analysis				
Sub	Fac	Appreciation	Suggestion for improvement	Sign
DCOM	JDB	<ol style="list-style-type: none"> i. Good communication ii. Good efforts by teacher to encourage student in participating soft skill program ,life skill. iii. Inform about CO and PO to students 	<ol style="list-style-type: none"> i. Should take efforts in monitoring the teaching learning process. ii. Make use of ICT tools. 	<i>Jagdeep</i>
WSN	CSG	<ol style="list-style-type: none"> i. Maximum Syllabus Covered. ii. Teacher able to identify student weakness and help them. iii. <i>Content beyond Laboratory Practicals tested</i> 	<ol style="list-style-type: none"> i. Faculty discuss course competencies ,course objective and program outcome with student. ii. Make use of student centric methods. 	<i>CSG</i>
ESD	PMD	<ol style="list-style-type: none"> i. Student Centric Teaching ii. Overall good teaching approach. iii. Good communication. 	<ol style="list-style-type: none"> i. Needs to improvement on encouraging student to participate in extra curricular activities. ii. Needs to take follow up of the assigned task. 	<i>Pm</i>
MTX	NSB	<ol style="list-style-type: none"> i. Good teaching approach ii. Maximum Syllabus Coverage iii. Encouraging to participate in extra curricular activities. 	<ol style="list-style-type: none"> i. Needs to take follow up of the assigned task. ii. Teacher needs to improve effort for internship, soft skill, employability. 	<i>Sahil</i>
FM	DNK	<ol style="list-style-type: none"> i. Prepares well for lecture. ii. Good internal evaluation. 	<ol style="list-style-type: none"> i. Teacher should identify strengths and weakness of students. 	<i>Pmk</i>
PP-1	MGS & CSG	<ol style="list-style-type: none"> i. Industry sponsored projects has been considerably increased in this year. ii. Project quality is good but expectation is to students participation in state level & national level presentation project competition, 	<ol style="list-style-type: none"> i. Follow-up of students to make the prototype of project : <i>in progress</i> 	<i>Sham</i>
		<i>SMK</i> AMC Coordinator	<i>Jagdeep</i> HOD	<i>Principal</i>

Fig. 9.2.c: Feedback Analysis

Action Taken				
Subject	Faculty	Suggestion for improvement	Action	Remark of HOD
WSN	CSG	Take the lectures in interactive way upto students understanding	I will use other ways of interactive teaching by using interactive panel	This will develop interest in student in the said subject
FM	DNK	Identify strength in the students and assign work based on that	I will give more problems and assignments to students for practice	This will give better results
DCOM	JDB	Give more attention on weaker students by promoting them to attain internship program	I will conduct more lectures and promote them for the same	This will show improvement in student result




Dr. Vilas Pharande
 Principal
 Arvind Gavali College of Engineering
 Panmalewadi, SATARA




Fig. 9.2.d: Corrective Action Taken

Students Feedback Analysis procedure

The staff appraisal committee members at program level collect 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:**Table9.2.a:Year-wise corrective measure data**

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.

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.

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.

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Tal. & Dist. - Satara - 415 015 (Maharashtra)
• Phone : 02162-200100
• Tele Fax : 02162 - 261122
• e-mail : agcearingsatara@gmail.com

• Institute Code : Engg. DTE EN-6545
• Poly Code : DTE DN-6545
• Poly MSBTE-1617 (2nd Shift)

Facility/Services Feedback Form

Academic Year: 2022/23 Semester: III

	Questions	Excellent	Very Good	Good
1	Is Adequate Reading Room Space available?	✓		
2	Book bank Service provided by the Librarian.	✓		
3	Store Services		✓	
4	Availability of Drinking Water			✓
5	Usage of ICT Tools		✓	
6	Transport Services		✓	
7	Support & Encouragement for Sports Activity			✓
8	Your opinion on Office Administration / Account		✓	
9	Internet/Wi-Fi Facility			
10	Canteen Services	✓		✓

Suggestions (if Any):

- 1) Number of bus facility be more
- 2) Wi-Fi speed be more
- 3) Library timing must be more




Fig 9.3.a: Facility Feedback Form

Feedback Analysis: The feedback is collected and analyzed based on the facilities provided like sports, canteen, library; etc .and corrective measures are taken as per the feedback (if required).

Corrective Action Taken:

Table9.3.a:Year-wise corrective measure data regarding facilities

Sr. No.	Academic Year	Comments given by student	Action Taken/outcomes
1	2022-23	Gym Facility	Institute Build open Gym facility for students
2	2021-22	Increase no. of buses for transportation for Rahimatpur, Medha Route.	Two New buses started for Rahimatpur route and Medha Route
3	2020-21	Store Services should be available after college hours or Saturday	Store Services are available on Saturday.
4	2019-20	Extend Library Timing	Library Closing time is extended. Reading Room is available for 12 hours.
		Decide and Fix the menu of Canteen.	Canteen Committee is formed.

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.

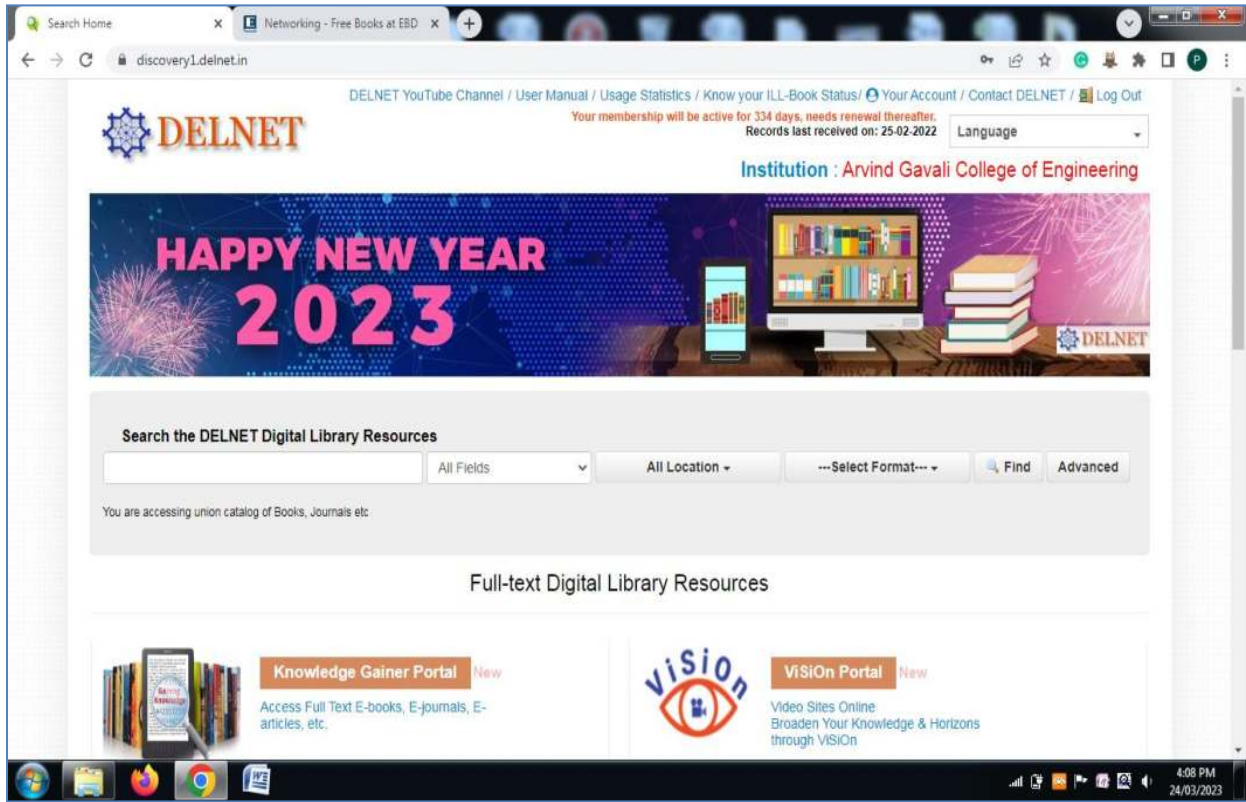


Fig. 9.4.a: DELNET Web portal

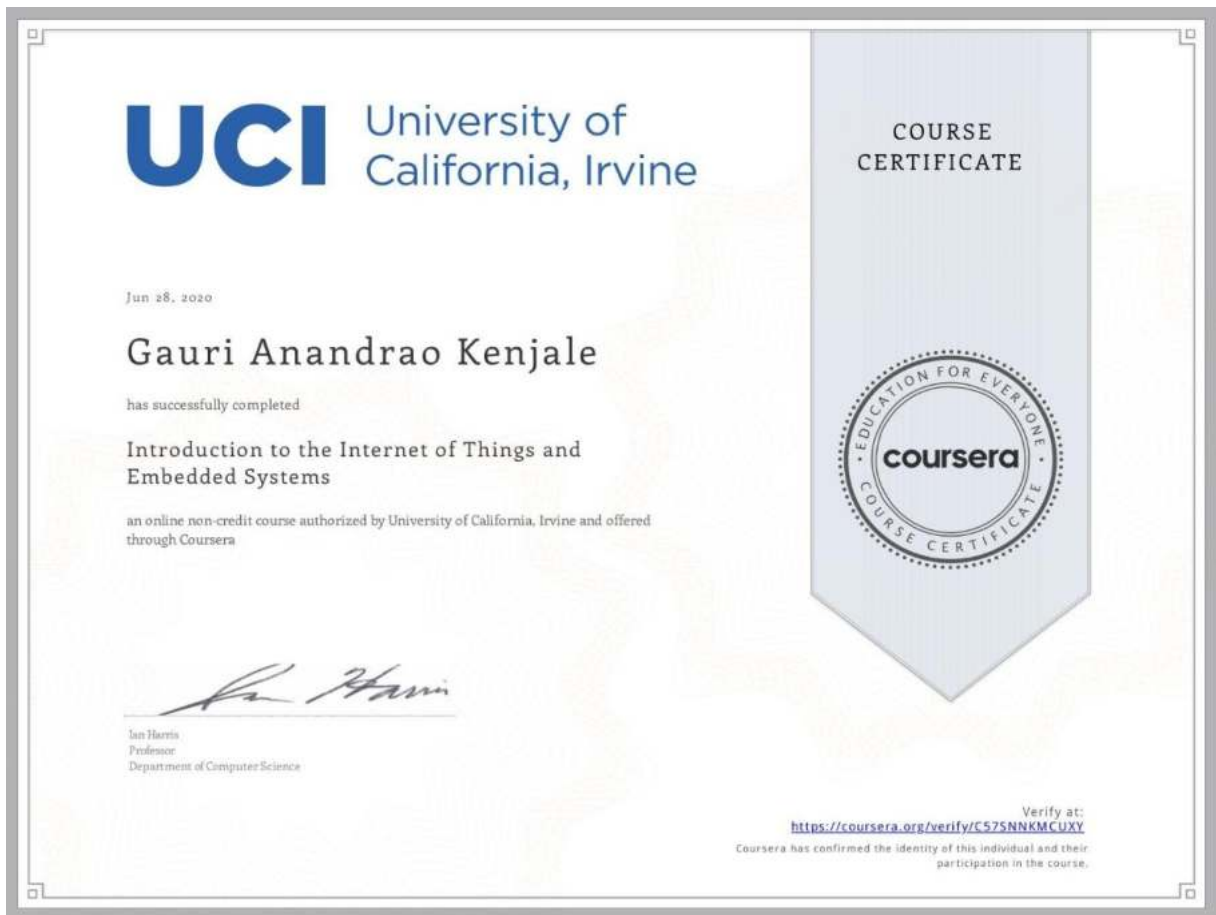


Fig. 9.4.b: Students Participating In Online Certification Courses

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.

9.4.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

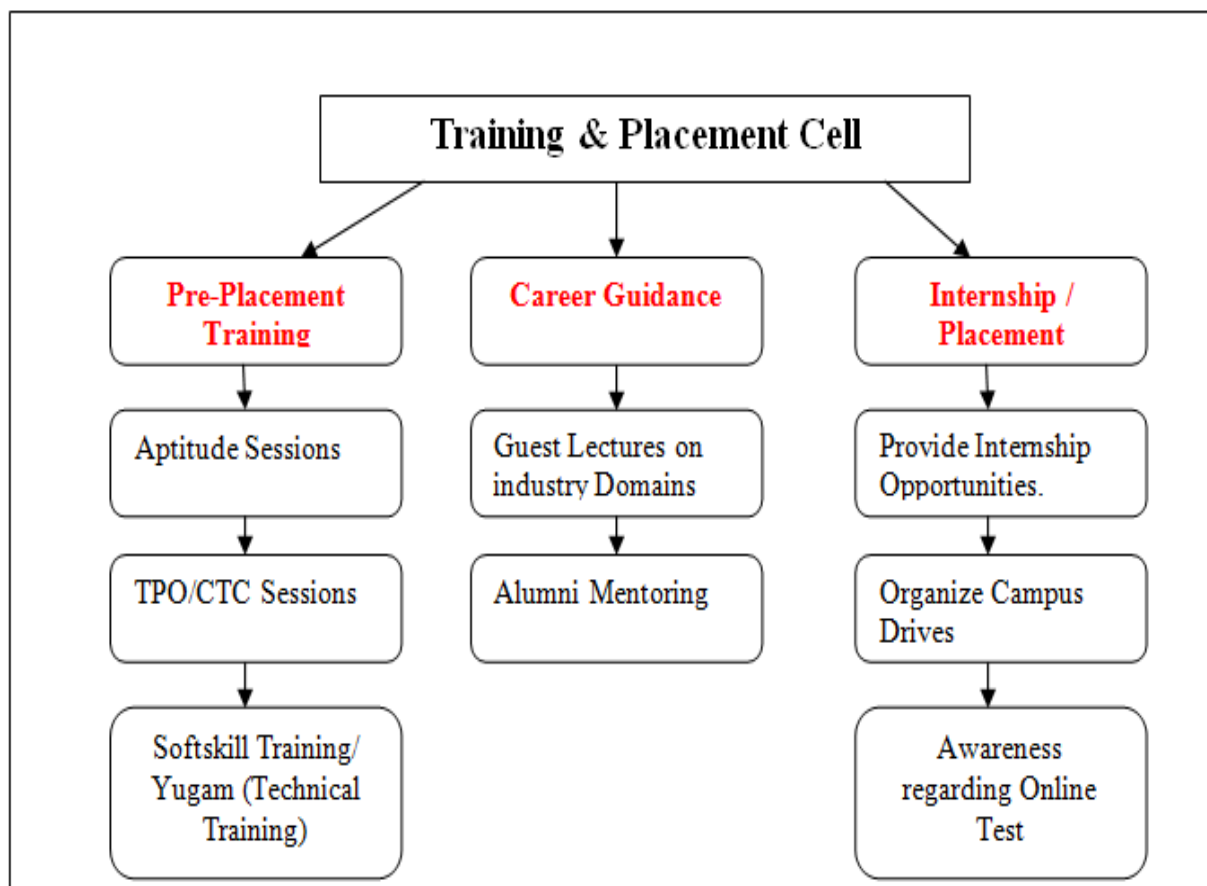


Fig. 9.5.a: Institute training and placement cell procedure

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 in 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 - 30/06/2022
2021-22	CDAC Preparation, Opportunities	Mr. Ashish Nalawade	31/05/2022
2021-22	EDUCON 2022 (Education Expo)	Pratyusha Employability Development(SOPC) Pvt Ltd. In Association with Sawkar Institutes, Satara	14/05/2022- 15/05/2022

Academic Year	Details	Speaker/Expert	Date
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2021-22	GATE Orientation Session	GATE Tutor, Pune	22/1/2022
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	26/11/2020
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	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 (Design Solution, karad)	7/08/2023 To 11/08/2023
2022-23	Workshop on AutoCad	Mr. Mahesh Sathe (Design Solution, karad)	10/08/2023 To 18/08/2023
2022-23	Workshop on PCB Designing and Manufacturing	Mr. Pravin Mohite (Aprontech, Satara)	7/08/2023 To 18/08/2023
Academic Year	Details	Speaker/Expert	Date
2022-23	Workshop on C,C++ and	Mrs. Pranali Nalawade	7/08/2023 -

	Python	(Squirrel's Infotech)	18/08/2023
2022-23	Workshop on Automation in IOT	Tushar Inamdar (Squarewave Automation Pvt Ltd, Satara)	1/08/2023 - 31/08/2023
2022-23	Five days Hands-on Workshop on Web Designing and Development using HTML, CSS, PHP, JavaScript and MySQL	Mr. Nikhil Kamble (Software Developer, Code Culture, Pune)	14/06/2023 - 19/06/2023
	Five days Workshop on Introduction to Python, AI and ML	Mr. Abhiraj Ubale (Software Developer, Code Culture, Pune)	22/05/2023 - 26/05/2023
2022-23	Developing Softskills	Mr. Sourabh Bhosale	13/02/23 to 17/02/2023
2022-23	Soft Skills for Emerging	Mr. Santosh Nalawade (Trainer , Aspiring Careers, Pune)	10/4/2023 - 13/04/2023
2021-22	English Speaking Session	Mr. Kale A.A. (A.G.C.E., Satara)	1/05/2022-30/06/2022
2021-22	Workshop on CATIA,CEO, SolidWorks for Mechanical Engineering Students.	Mr. Sathe Mahesh (Design Solution, Pune)	1/03/2022-31/05/2022
2021-22	Campus To Corporate Activity	Ms. Bhilare N.S. Mr. Kale A.A. (A.G.C.E., Satara)	1/05/2022-30/06/2022
2021-22	Aptitude Sessions	Mr. S.P.Patil Mrs. A.D. Kasture (A.G.C.E., Satara)	1/03/2022 - 30/05/2022
2021-22	Group Discussion: Etiquettes and Practice	Mr. Pathak P.A. Mr. Kale A.A. (A.G.C.E., Satara)	14/05/2022 21/05/2022 28/05/2022
2020-21	Development of Communication Skills	Prof. Pramod Dastoorkar (Professor, MIT Academy of Engg, Pune)	24/11/20
2020-21	Attitude Building for professional Excellence	Prof. Pramod Bhadakawade (Symbiosis International University Pune)	23/11/20

Academic Year	Details	Speaker/Expert	Date
2019-20	Yugam – Four Week Training Program on Internet of Things.	1) Mrs.Kirti Wanjale (VIIT,Pune) 2) Mrs.Varsha Patil (Lembhe) (JSPM, Hadapsar) 3) Mr.Pravin P. Mote (TATA Communicatios, Pune) 4) Mr.Ashish Kalambe (Modelcam Technologies Pvt. Ltd, Pune) 5) Mr.Nilesh Bhandare (Sloki Technologies Plt Ltd,	29/7/2020-4/8/2020

		Bangalore) 6) Mr.Akshay Jadhav (Space Automation, Pune) 7) Mr.Niraj Kapase (DKTE, Ichalkaranji) 8) Mr.Vaibhav V. Nalawade (Institute of Computer Science, Satara) 9) Mr.Pravin Koregave (Infinite Uptime India Pvt Ltd., Pune)	
2019-20	Yugam – Four Week Training Program on PCB Design (Electrical Engg. & E&TC Engg.)	1) Mr. Santosh Chavan (A S M Tracks, Shirwal) 2) Prof. Venkatasai shreenath (BVSR,Ongol, AP) 3) Prof. Sameer Bagwan (ADCET, Ashta) 4) Dr. Dhanashree Gawali (Singhgad,Pune) 5) Prof. Vishal Ambhore(VIIT, Pune) 6) Mr. Shridhar Dudam (Smart Logic Technologies, Pune) 7) Prof. Niraj Kapse (ElectrowingServies, Ichalkaranji) 8) Mr.Prafull Bagade (AutoTech, Nashik) 9) Mr.Tejas Shilamkar (VertivEnergyPvt Ltd) 10) Ms. Vinaya Kadam (Free Lancer)	29/06/2020- 24/07/2020
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 - 12/9/19

Academic Year	Details	Speaker/Expert	Date
2019-20	Workshop on Introduction to Arduino and Basic Electronics	Mr. Vishwajit Kulkarni, AGCE, Satara	9/9/19- 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- 13/3/2020
2019-20	Yugam – Four Week Training Program for Civil Engineering	1) Dr.R.R.Sorate (J.S.P.M.Bawadhan) 2) Prof.A.P.Khatri (J.S.P.M.Narhe) 3) Prof.Kakade Sir (COE,Pune) 4) Prof. Chafalkar Sir (J.S.P.M.Tathawade)	29/6/2023- 24/7/2020

		<p>5) Prof. Ban Sir (Raisoni, Nagpur)</p> <p>6) Prof.Mule Sir, (J.S.P.M.Narhe)</p> <p>7) Mr.Milind Vasudev (Lax Academy)</p> <p>8) Dr.Minde Sir (MIT,Kothrud)</p> <p>9) Mr. Jojo Mathew, (HIT,Nidasoshi)</p> <p>10) Prof. Khandekar Sir (PVPIT, Pune)</p> <p>11) Dr. Wagh Sir (Zeal College, Pune)</p> <p>12) Prof. Vipul Naidu (PVPIT,Pune)</p>	
2019-20	Yugam – Four Week Training Program on PCB Design (Electrical Engg. & E&TC Engg.)	<p>1) Mr. Santosh Chavan (A S M Tracks, Shirwal)</p> <p>2) Prof. Venkatasai shreenath (BVSR,Ongol, AP)</p> <p>3) Prof. Sameer Bagwan (ADCET, Ashta)</p> <p>4) Dr. Dhanashree Gawali (Singhgad,Pune)</p> <p>5) Prof. Vishal Ambhore (VIIT, Pune)</p> <p>6) Mr. Shridhar Dudam (Smart Logic Technologies, Pune)</p> <p>7) Prof. Niraj Kapse (Electrowing Servies, Ichalkaranji)</p> <p>8) Mr.Prafull Bagade (AutoTech, Nashik)</p> <p>9) Mr.Tejas Shilamkar (Vertiv Engergy Pvt Ltd)</p> <p>10) Ms. Vinaya Kadam (Free Lancer)</p>	29/6/2020-24/7/2020

Academic Year	Details	Speaker/Expert	Date
2018-19	Softskill Development Program (under lead College Activity.)	Mr.Pulkit Singh Ms. Sylviya Johnson (Eka Training)	11/3/2019-13/03/2019
2018-19	Group Discussion Practice Session Activity	Mr. Pathak P.A. Mr.Khade V.C. Mr. Nikam P.R. (A.G.C.E., Satara)	6/1/2019-27/1/2019



Fig.9.5.b: Yugam PCB 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 Introduction to Python, AI and ML in association with Code Culture, Pune-2023

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

TableNo.9.5.cYear-wise Placement Data

Student Progression	Placement Percentage			
	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%

9.5. Entrepreneurship Cell

(05)

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.
2. 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)
3. Participation in **Orientation Program on Promotion and Facilitation of Entrepreneurship** among the students of AICTE affiliated institutes on 1st & 2nd February, 2020
4. Participation of Students in **One Day Workshop on Entrepreneurship Development** (8 Feb, 2020) under Lead College Activity.
5. **Entrepreneurship Development Program** by MITCON Consultancy & Engineering Services on 18th and 19th January, 2019.
6. Talk on **Entrepreneurship Development** by Mr. Kiran Mane from Home Multi-trading Company and Technical Institute, Satara on 9th March, 2022.
7. Organized session “**Udyojakata Vikas Yatra**” on 31st August 2023 for inculcating passion for entrepreneurship among the students. A session was conducted before inauguration of **Udyojakata Vikas Yatra**. **Dr. Dipak Shikrapurkar** has guided students regarding entrepreneurship.

The screenshot displays the IIC portal for Aravind Gavali College of Engineering (C-11245). The page shows the 'Add Teaching/Non teaching Members' section with a table of registered members. The table includes columns for Roles, Name & Details, Department, Designation, Qualification, Experience in Years, and Action. The members listed are:

Roles	Name & Details	Department	Designation	Qualification	Experience in Years	Action
President	Dr. Vilas Pharende vipharende@gmail.com 880661729		Director, Innovation, Incubation, and Linkages			
Innovation Activity	Mr. Suhas Patil iamsuhaspatil@gmail.com 980928844	Mechanical Engineering	Assistant Professor	Post Graduate	10	
Convener/PR Activity Coordinator	Dr. Gayatri Mirajkar gayatrimirajkar@gmail.com	Electronics and Telecommunication Engineering	Professor	Doctorate	15	
Start up Activity Coordinator	Mr. Arjun Kadam arjunkadamforu@gmail.com 9730177047	Mechanical Engineering	Assistant Professor	Post Graduate	8	
Social Media	Mr. Vishnu Khade vishnukhade9453@gmail.com 9345405775	Electronics and Telecommunication Engineering	Assistant Professor	Post Graduate	8	
ARBA Coordinator	Mr. Vijay Gujar gvjarvijay@gmail.com 7972091171	Computer Science and Engineering	Assistant Professor	Post Graduate	20	
NIRF Coordinator	Mr. Ankur Kamble ankkam@gmail.com 9067493289	Mechanical Engineering	Assistant Professor	Post Graduate	7	
Internship Activity Coordinator	Dr. Manali Shah shah.manali3@gmail.com 9822610618	Computer Science and Engineering	Associate Professor	Doctorate	22	

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



Fig. 9.6.b: Udyojakata Vikas Yatra organized at Institute- 31 Aug 2023.

Table No.9.6.a list of entrepreneurs

Sr. No	Name of Student	Program	Name of Organization
1	Randive Amol Sarjerao	CIVIL	A AEnterprizes, Ghatkopar
2	Kadam Arjun Suresh	CIVIL	Mahalakshmi Construction, Satara
3	Mane Sourabh Bajirao	CIVIL	Shree Datta Construction, Mhaswad
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	Kalbhore Shivraj	ELECTRICAL	Gurudatta Electricals and Engineers, Satara
12	Raviraj Mohite	Electrical	Ravi 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
18	Prakalp Gogawale	Mechanical	PR Engineering, Satara
19	Vijay Ghadage	Mechanical	Ajinkyatara Automobile & Services, Satara
20	Akash Ghanwat	Mechanical	Autochoice Car Care, Satara
21	Sandip Varvate	Mechanical	Renuka Enterprises, Satara
22	Samadhan Jadhav	Mechanical	Satara Engineering Works, Satara

9.6. Co-curricular and Extra-curricular Activities**(10)****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**TableNo.9.7.aYear-wisestudent’s sport achievement**

Academic Year 2022-23				
No	Name of the Student	Level	Event	Rank
1	Shubhamdhane	University	Kho-KHo	Participant
2	Ayush Patil			
3	Shreyash Patil			
4	Pravinkumar Mahoor			
5	Akshay Galve			
6	Chaitanya Yadav			
7	Omkar Yadav			
8	Aniket Tikudave			
9	AtharvDhane	University	Chess	Participant
10	OmkarMiraje			
11	Anniruddha Kadam			
12	Hasan Shaikh			
13	OmkarMiraje			
14	AkankshaMatkar	University	Kabaddi	Participant
15	AishwaryaPanvelkar			
16	Arati Gaikwad			
17	Sanjana Jadhav			
18	Vaishnavi Kamble			
19	Shreya Chavan			

20	Pragati Ghadge			
21	Amruta Deshmukh			
22	Avishkar Kadam			
23	SawantOmkar	District	Badminton (Men's Single)	Runner-up
24	Surve Swaraj	University	Interzonal Wrestling	Winner

Academic Year 2021-22				
No	Name of the Student	Level	Event	Rank
1	Abhay Sanjay Chorage	Institute	Tug Of War	Participant
2	Akash AnandraoThorat			
3	Avdhut Ashok Mane			
4	Chaitanya SiddheshwarWagh			
5	HarshadaKishorShinde			
6	MandharePratikshaSomnath	Institute	Kabbadi	Participant
7	DagadeKshitija Sunil			
8	KumbharAadarshRajendra			
9	Kanase Abhishek Bapuso			
10	PatilAkshada Ashok			
11	KatkarAkshaliDilip			
12	MalusareAnkitaJagannath			
13	ShirkeAtharvaChandrakant			
14	Surveswaraj	State	Wrestling	Participant
Academic Year 2020-21				
No	Name of the Student	Level	Event	Rank
1	JadhavAyushDatray	Institute	Chessmania2K21	Participant
2	Attar MustanNisar			
3	Gaikwad RushikeshDilip			
4	PustakeUtkarsh			
5	Jaddhav Abhishek			
6	ShindeKavita Mohan			
Academic Year 2019-20				
No	Name of the Student	Level	Event	Rank
1	Swaraj Surve	Intercollegiate	Wrestling -57kg (By KBPCOE, Satara)	Runner Up
2	OmkarMahadik	University	Kabaddi (By DBATU, Lonere)	Participant
3	ShindeAkshay			
4	Mali Kishor			
5	Bhoite Aryan			
6	Shirke Sani			
7	Gaikwad Sushant			
8	Sutar Pratik			

9	Kalkundrikar Rahul			
10	PawarRushikesh	University	KHO-KHO (By DBATU, Lonere)	Participant
11	Pawar Mahesh			

No	Name of the Student	Level	Event	Rank
12	Pawarvaibhav	University	KHO-KHO (By DBATU, Lonere)	Participant
13	ChavanPrathmesh			
14	Anande Mahesh			
15	KoradeShubham			
16	SawantSachin			
17	Mulik Akash			
18	Nagargoje Krishna			
19	Kadam Vaibhav			
20	JadhavAtul			
21	KhatteAvishkar			
22	Waghmoderohit			
23	MullaAltaf			
24	Chavannamrata			
25	Gurav Kanchan			
26	SawantShital			
27	Dalvi Pranita			
28	KatkarArati			
29	Vedpathak Poonam			
30	Ingawalepratiksha			
31	Yadav Priyanka			
32	ShindeRutuja			
33	Sakunde Neha			
34	ShingateMayuri			
35	ChavanSakshi	University	Kabaddi (By DBATU, Lonere)	Winner
36	PatilSnehal			
37	PatilKarishma			
38	Chavanpooja			
39	More Shubhangi			
40	PawaleHrituja			
41	VelapureDivya			
42	DaphaleSayali			
43	Bhosale Priyanka			
44	Tarade Priyanka			
45	Abhishek katkar		Shot Foot (By DBATU, Lonere)	Participant
46	Jadhav Akash			
46	Katkar Abhishek		Relay 4*100 meter (By DBATU, Lonere)	Participant
47	JadhavOmkar			
48	Mali Kishor			
49	MahadikOmkar			

Academic Year 2018-19

No	Name of the Student	Level	Event	Rank
1	Abhishek Katkar	University	Shot Foot (By DBATU, Lonere)	Winner
			Running 100m & 200m(By DBATU, Lonere)	Participant
2	Vaibhavkadam		Running 800m & 1500m (By DBATU, Lonere)	Participant
3	Avishkarkhatte		Running 2000m (By DBATU, Lonere)	4th Winner



Fig.9.7.a: Omkar Sawant : District Level Badminton (Mens Single) Runner Up -2022

SAMARTH EDUCATIONAL TRUST

ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA

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SAWKAR TROPHY-2K23

(State level competition)

05 to 07 April 2023

TUG-OF-WAR
Entry Fee: 50/-
05th April, 2023
Venue : AGCE GROUND
Last date of registration : 04th April 2023
Student Co-Ordinator :
Shubham Kalkar (Poly.Mech.) : 965277421
Pavan Pawar (Poly.Mech.) : 807713018

CARROM
Group Entry Fee: 80/-
06th April 2023
Venue : AGCE Ground
Last Date of Registration : 5th April 2023
Student Co-Ordinator :
Mayur Gole (FY.CW) : 913644848
Aditya Sainkar (FY.CW) : 8652120314

VOLLEYBALL
Entry Fee: 140/-
05th April 2023
Venue : AGCE Ground
Last date of registration : 04th April 2023
Student Co-Ordinator :
Kunika Vaidkar (TY.ELE) : 84164678
Vedha Kumbhar (TY.ELE) : 702017819

BADMINTON
Entry Fee: 40/-
06th April 2023
Venue : AGCE Ground
Last date of registration : 05th April 2023
Student Co-Ordinator :
Varun Barge (Poly.EATC) : 8010858103
Shrutika Shinde (Poly.EATC) : 8438760902

KABBADI
Entry Fee: 160/-
05th April 2023
Venue : AGCE Ground
Last date of registration : 04th April 2023
Student Co-Ordinator :
Sujal Shinde (Mech.) : 809707893
Akanksha Warkar (Mech.) : 887818980

CRICKET (BOYS)
Entry Fee: 250/-
05th April 2023
Venue : AGCE Ground
Last date of registration : 04th April 2023
Student Co-Ordinator :
Akash Thorat (Civil) : 7499612656
Balram Kalbhor (Civil) : 9657278512
Terms and condition apply

BOX CRICKET LEAGUE (GIRLS)
Entry Fee: 140/-
07th April 2023
Venue : AGCE Ground
Last date of registration : 06th April 2023
Student Co-Ordinator :
Arati Shinde (CSE) : 9370294399
Utkarsh Koli (CSE) : 7721883765
Terms and condition apply

KHO-KHO
Entry Fee: 200/-
06th April 2023
Venue : AGCE Ground
Last date of registration : 05th April 2023
Student Co-Ordinator :
Abhijit Pawsha (SY.CSE) : 9527126504
Ayush Patil (TY.Mech.) : 7972793344

ATHLETICS
Entry Fee: 200 M. / 100/- Relay
07th April 2023
Venue : AGCE Ground
Last date of registration : 06th April 2023
Student Co-Ordinator :
Savitri Shage (Poly.CO) : 828375983
Raj Jadhav (Poly.CO) : 8322794427

CHESS
Group Entry Fee: 40/-
07th April 2023
Venue : AGCE Ground
Last date of registration : 06th April 2023
Student Co-Ordinator :
Pratik Patil (EATC) : 840999393
Shravan Pawar (EATC) : 8288917822

Avishkar Kadam 9021316821
Ritesh Jadhav 9370980177
STUDENT CO-ORDINATOR

Prof. Nikhil V. Ghadge
SPORTS CO-ORDINATOR

Dr. Vilas A. Pharande
PRINCIPAL

Hon. Shri. Nishant Gavali
SECRETARY

Hon. Shri. Arvind Gavali
CHAIRMAN

Fig.9.7.b: Annual Sports Event “SAWKAR TROPHY”- 2023

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 Guinness World Record 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.

TableNo.9.7.b: SATARA HILL MARATHON ACTIVITIES

No.	Name of the Event	Date	Contribution
1	MAS Marathon 2022	02/10/2022	Volunteers, Food Stations
2	SHM 2022(Satara Hill Half Marathon 2022)	18/09/2022	Volunteers, Food Stations
3	SHM 2019 (Satara Hill Half Marathon 2019)	25/08/2019	Volunteers, Water Stations
4	SHM 2018 (Satara Hill Half Marathon 2018)	02/09/2018	Volunteers, Water Stations



Fig.9.7.c : MAS Marathon Activity 2022



Fig.9.7.d : SHM Activity for Runners,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.

TableNo.9.7.c: Cultural Event participant data

Sr. No.	Academic Year	Details of cultural event	Number of students participated
	2022-23	Shivrajabhishek Celebration	350
1		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)	620
6		Tarunai 2022 (4/05/2022)	367
7		Holi Celebration(22/03/2022)	268
8		Shivjayanti Celebration (19/02/2022)	552
9		Savitribai Phule Jayanti (3/01/2022)	254
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

Sr No	Academic Year	Details of cultural event	Number of students participated
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,Tollywood 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 Nirbhaya Police Pathak (17/02/2020)	80
28	2018-19	Mahatma Gandhi Jayanti(02/10/2018)	50
29		Dandiya 2018(17/10/2018)	409
30		YOUTH Festival at D.P.Bhosale College, Koregaon (26/10/2018)	30
31		Presenting the Streetplay on“Acche Din wo Chaar Din” (11/11/2018)	10
32		Savitribai Phule Jayanti(03/01/2019)	104
33		Against Dowry Conference at Muktangnan Satara (14/04/2019)	25



Fig.9.7.e: Annual Cultural Event “TARUNAI”-2023



Fig.9.7.f: Shivrajyabhishek Celebration-2023

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 Rally 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

TableNo.9.7.d:Year-wise list of NSS activities

Sr. No	Academic Year	Date	Event Name
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 4/03/2022	Food Donation at Villages
10			Swatchhata Abhiyan
11			Health Checkup Camp
12		5/3/2022	Blood Donation Camp
13		25/3/2022	Tree plantation
14		6/03/2022	Dustbin Donation Activity
15		20/06/2022	No Vehicle Day
16	2020-21	15/08/2020	Arsenic Album Distribution Activity
17		21/03/2021	Tree Plantation
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	"Swatchhata Hi Seva" Activity
21		17/01/2020	"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 - 8/2/2020	NSS Camp at Anewadi, Satara
24	2018-19	14/1/2019 - 19/1/2019	NSS Camp At Bhaleghar, Sanpane, Satara
25			Tree Plantation
26		21/07/2018 02/10/2018	"Swatchhata Awareness Rally"
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.g: NSS Camp at Jalgaon Tal. Koregaon, Dist. Satara -2023



Fig.9.7.h:Swachhata Activity during NSS CAMP at Jalgaon Tal. Koregaon, Dist. Satara -2023



Fig.9.7.i: NSS CAMP at Koregaon, Jalgaon, Satara -2023



Fig.9.7.j: Arsenic Album Tablets Distribution-2022

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. Bannoli
- T. Kudal



उन्नत भारत अभियान
UNNAT BHARAT ABHIYAN

शिक्षित भारत- सक्षम भारत- स्वच्छ भारत-स्वावलम्बी भारत-संपन्न भारत
सभी को मिलाकर गाँवों के विकास के लिए
Convergence of Knowledge/ Experience/ Resources for Rural Development







Invitation to Participate/ Contribute in Rural Development

- **Unnat Bharat Abhiyan (UBA)**, a flagship programme of Ministry of Human Resource Development (MHRD), Govt. of India.
- Higher educational institutions (HEIs) of the country adopt villages for their development.
- Faculty and students to be involved in village development plan in collaboration with district administration.
- **ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA** is participating in UBA and adopted following villages for their development in collaboration with district administration.

1. PANMALEWADI 2. VARYE 3. BHUINJ 4. PANCHWAD 5. BARNOLI T. KUDAL

ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA UBA cell invites all faculty and students to join UBA to bring for transformational change in the villages. For participation in UBA activities, please contact coordinator mentioned below.

Name: Mr. Barkade Vijay Tukaram
(Coordinator UBA cell)
Phone: 7276774615
Email: barkade.vijay@gmail.com

National Coordinator UBA
Prof. Virendra Kumar Vijay
Web: www.unnatbharatabhiyan.gov.in
Email: unnatbharatabhiyanitd@gmail.com
☎ :01126596451, 01126591157

Fig. 9.7.k: Unnat Bharat Abhiyan



Fig. 9.7.l: 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.

TableNo.9.7.e Project and other national level Competition participant data

Sr. No.	Academic Year	Name of the Competition	Number of students participated
1	2022-23	KJSIT-IET-INTECH-2K23 Poster cum Project Competition	15
2		ROTRAX 2023	02
3		DIGIT-2K23	02
4		Yasho-Tech- Fest- 2023	06
5		Tech-Fest 2k23 By Kisanveer College, Wai	01
6		PHN Advanced Technology Online Workshop on Android Development	04
7		TECHNOVATION-2023	03
8		Java Training by Besant Technology	02
9		Brain-it-On 1.0	03
10		DCODE 2k23	01
11		Technical Project Competition	12
12		Kurukshetra 2K23	02
13		MATPO Aptitude Idol-2023	35
14		AVISHKAR 2022	12
15	2021-22	National Level Project Competition (by KJ Somaiya Institute of Engineering and Information Technology Sion,Mumbai)16/04/2022	04
16		National Level Project Competition (by Bharati Vidypeeth College of Engineering Pune)21/05/2022	01
17		National Level Project Competition (by Yashodha Technical Campus Satara 9/05/2022)	05
18		Internal Hackthon of Smart India Hackthon 2022) 28/04/2022	06
19		Smart India Hackthon Finale at Bhilai Institute of Tech, Durg, Chhattisgarh. (26/08/2022)	06
20		Impact Lecture Session under KAPILA on Intellectual property , literacy and awareness campaign (24/6/2022)	05
21		Impact Lecture Session on Intellectual Property Rights and Startups (29/6/2022)	06
22		Impact Lecture Sessions sponsored by MoE's Innovation Cell, AICTE on Inception of a Startup. (28/7/2022)	05

Sr. No.	Academic Year	Name of the Competition	Number of students participated
23		TEQIP III Sponsored Two Days Online FDP on “Medical Imaging: Special Topics in Magnetic Resonance Imaging ” (24/9/2021)	04
24	2020-21	Five Days online FDP on “Recent Advances in Health 5.0 In-line with NEP 2020” (22/3/2021)	04
25		DiPEX (Project Presentation By Tantra shikshan Vidyarthi Karya, Kolapur Division and Dipex) 20-23/05/2021	03
26	2019-20	AVISHKAR 2019-2020 Zonal Level Competition by DBATU	04
27		AVISHKAR Intercollegiate Poster Presentation Competition	80
28		PROTECH 2020 at Symbiosis International University, Pune	02



Fig.9.7.m:SMART INDIA HACKTHON at Bhilai Institute of Technology Durg



Fig.9.7.n: ROTAREX 2023 (Project Exhibition & Competition) at Satara -2023



Fig.9.7.o: ROTAREX 2023 certificate (Project Exhibition & Competition)-2023



Fig.9.7.p: MATPO Aptitude Idol Participation-March 2023

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.q: 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.

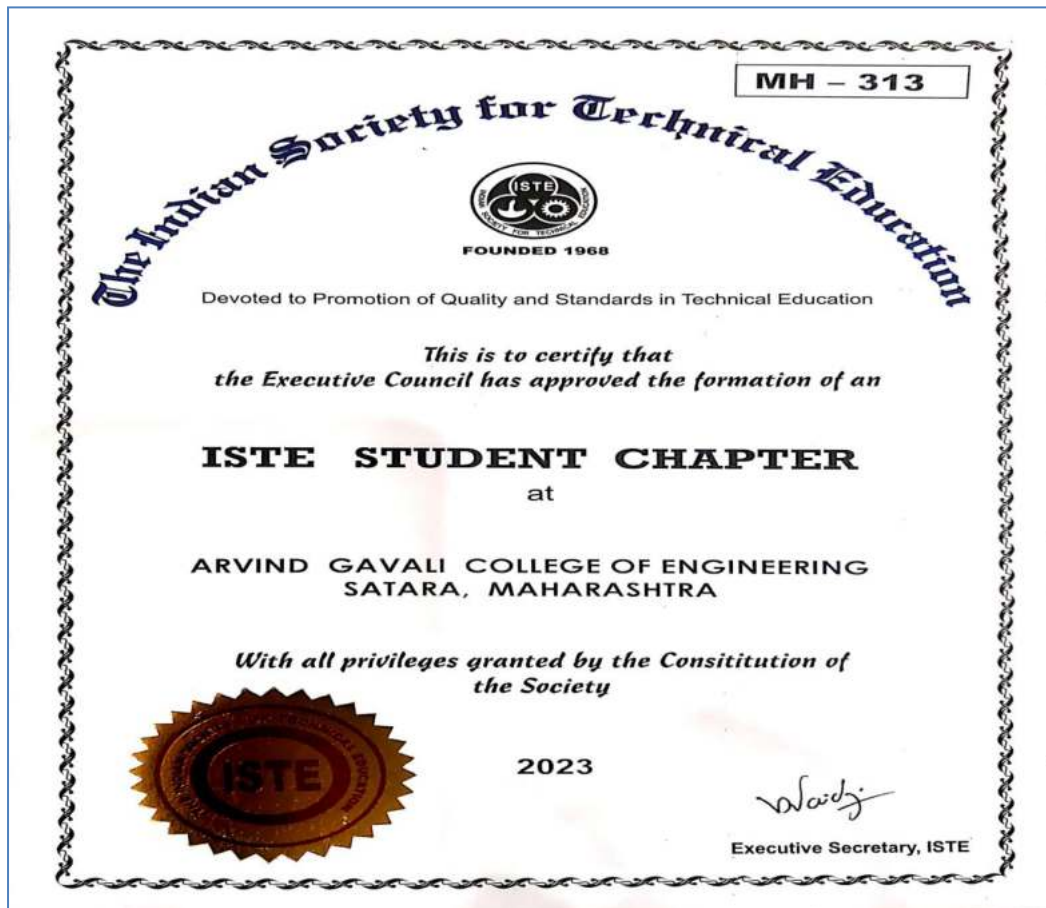


Fig.9.7.r: ISTE student Chapter Formed

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.s: 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.



Fig. 9.7.t : Visit to BHAU institute At C.O.E. Pune.

Robotics and Automation Club: This club is formed to inculcate passion towards the Automation, Robot Making, PCB Designing among the students. The objective of this club is to aware the students about future of Industrial Automation by Robotics. Under this club workshop is conducted to help students gain knowledge related to industrial automation. In this workshop students are learnt to operate and Program the Kuka Robots, PLC Programming.

SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA
OFFERING **SQUARE WAVE**
INDUSTRY ORIENTED PROFESSIONAL
CERTIFIED TRAINING PROGRAM FOR ENGINEERING ATTRIBUTES
 In Association With
SQUARE WAVE AUTOMATION TECHNOLOGIES Pvt. Ltd.
 Under
Robotics and Automation Club

Course Name :
Robotics and Automation Engineering

Train Yourself for Successful Future

What is Robotics Engineering?
 Robotics Engineering is a field that involves designing, testing, building and operating automated systems that perform specific actions to assist humans.

Objectives:
 The objective of the training is to get the new professional skills through hands on practical on "Kuka Robot", so that students can face the interviews successfully for getting a job in Robotics and Automation sector.

Duration of Training :
 The duration of training will be 90 days (8 Hours every day, from Monday to Saturday between 10:00 AM to 05:00 PM).

Course Structure:
 •PLC Ladder Logic Programming with Siemens, Mitsubishi and Delta PLC kits.
 •SCADA and HMI System.
 •Home Automation using Microcontroller.
 •Control Panel Designing.
 •Hands on practical on Physical "Kuka Robot".
 •Raspberry-pi with Python Language.
 •Arduino Programming.

JOBS
JOB OPPORTUNITIES:
 7000+ Robotics Engineer Jobs in India (9200 new)
Major Recruiters of Robotic Engineers
ISRO, DRDO, BHEL, TATA, ABB, SIEMENS, BOSCH, CUMMINS

Top 6 Career Options After Completing Robotics Engineering

- Electromechanical Technicians
- Robotics Programmers
- Aerospace Robotics Engineers
- Computer Scientists
- Mechanical Engineers
- Robot Design Engineer

Coordinator
 Mr. Somenha Naik S R
 Mob : 9663553985

Co-coordinator
 Ms. Bhagyashri Pol
 Mob : 8552017444

Fig. 9.7.u: Training Program offered in association with .

Cloud Computing Club: The major objective of our group is to raise technical awareness of cloud and devops on our campus. We are an interdisciplinary cloud club, so rather than concentrating on just one cloud provider like AWS or GCP, we will cover a wide range of providers including IBM, Alibaba, and many more. Instead of offering more theoretical lectures, we will concentrate on bringing practical events. We make an effort to give our trainees practical, industrial experience.

Competitive Exam Club:

This club helps students to get all information regarding the competitive examinations such as U.P.S.C., M.P.S.C., RRB, I.B.P.S., M.S.E.B.. Guest lecturers from Experts are conducted to guide the students regarding the preparation and prerequisites of the examinations.

Special Batch:

This club is formed to encourage the students to prepare and pursue career in Arm Forces (Army, Navy, Air Force). Motivational sessions are conducted to bring patriotism among the students. Students are guided about various exams like Technical Graduate Entry, University Entrance Scheme, Short Service Commission. Students are trained for these examinations under the guidance of Dr. S.P.Lavand (Ex. Navy Officer).



Fig. 9.7.v : Students visited 22MAH BN NCC Camp at Mahagaon, Satara-2022

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



Fig. 9.7.w : 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.



Fig.9.7 x : Participation in LAGHUPAT MAHOTSAV related to Woman Awareness

Table No.9.7.f: List of activities conducted

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 in 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
	2021-22	Visit to NCC Camp at Mahagaon for Seminar	2/06/2022
7		Guidance on Competitive Examination by Mr. Akshay Jadhav (Infinity Academy, Pune)	6/04/2022
8		Awareness program about Girl Child.	3/01/2022

Sr. No.	Academic Year	Activities	Date
9		One day python programming workshop By Mrs. Snehal Kasurde	20/11/2021
10		One day Network security workshop By Mr. Prashant Patil	16/12/2021
11		Hands on data analytics using Tableau workshop by Ms. Pimpalkar Shilpa	27/12/2021
12		3D Printer installation	09/7/07/2021
13	2020-21	Career in Software Testing, Prerequisites and Opportunities by Mr. Sushant Sankpal	09/05/2021
14	2019-20	Resume Building and Interview Technique workshop By Mr. N.S. Juvekar	23/03/2020
15		Guest Lecture on Introduction to Career Opportunities in System Networking by Mr.Ajit Sutar	11/09/2019



**Fig.9.7 y Ms. Tanvi S. Bidwai from E&TC got opportunity to study in
The US at University of California (2023)**

CRITERION 10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120
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10.1 Organization, Governance and Transparency (40)**10.1.1 State the Vision and Mission of the Institute (05)**

A. Availability of the Vision & Mission statements of the Institute (02)

B. Appropriateness/Relevance of the Statements (03)

A. Vision & Mission statements of the Institute

Vision:

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

Mission:

Our Mission is to

- M1: To provide quality education through effective teaching learning process.
- M2: To develop professional skills and promote innovation among students by providing a conducive atmosphere.
- M3: To inculcate ethical values, respect for the environment, and social responsibility.

B. Appropriateness/Relevance of the Statements (03)

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 project-based 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 conducive 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 as 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 Hon. Secretary, Samarth Educational Trust, Satara	Chairman
2	Shri. Gavali Arvind Kondiram Hon. Chairman, Samarth Educational Trust, Satara	Secretary
3	Shri Shanbhag Ramesh Shamrao Member of Trustee, Samarth Educational Trust, Satara	Member
4	Dr. Sou. Shete Mahananda Vishveshwar Member of Trustee, Samarth Educational Trust, Satara	Member
5	Mr. Gavali Dilip Kondiram Member of Trustee, Samarth Educational Trust, Satara	Member
6	Mr. Ramesh Unnikrishnan AICTE Western Regional Officer, Mumbai	Member
7	Dr. Nandanwar D.R. Joint Director, DTERO, Pune	Member
8	Mr. Narkar K.M. D.Y. Patil Engineering College Kasaba Bavada, Kolhapur	Member
9	Dr. Chitlange M.R. Joint Secretary, MSBTE RO, Pune	Member
10	Mr. Mali Milindkumar S. Associate Professor Singhad College of Engineering, Pune	Member
11	Mr. Waikar Omkar Supreme Siliconesans Trinity Enterprises Pune	Member
12	Mr. Bidwai Shailesh P. Chairman S.P. Packaging LTD	Member
13	Mr. Godbole Ashutosh Chartered Accountant	Member
14	Col Mr. Kanase Pramod A. Ex. Serviceman & Professor	Member
15	Prof. Hingmire Vishal Sharad Assistant Professor Arvind Gavali College of Engineering, Satara	Member
16	Mr. Pathak Pranav Avinash Assistant Professor Arvind Gavali College of Engineering, Satara	Member
17	Dr. Pharande Vilas Arjun Principal, Arvind Gavali College of Engineering, Satara	Member

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 Institute

Sr. No	Name of the person	Designation
1	Mr. Gavali Nishant Arvind	Chairman
2	Mr. Hingmire Vishal Sharad	Member
3	Mr. Patil Suhas Prakashrao	Member
4	Dr. NayakMeghya Banoth	Member
5	Dr. Thombare Vijay Ramchandra	Member
6	Adv. Ayachit Arundhati Sanman	Member
7	Sou. Mandhare Rajani Mahendra	Member
8	Sou. Kamble Rupali Ravi	Member
9	Mr. Kanase Nitin Uttam	Member
10	Mr. Patwardhan Amey Dipak	Member
11	Dr. Pharande Vilas Arjun	Secretary

Role and Functions of College Development Committee

As per the Maharashtra University Act, separate Local Managing Committee is constituted for the day to day functioning of the college. This committee should meet two times a year and proceedings of the meetings are maintained properly. Members elected or nominated shall have a term of five years. The committee comprises of the Chairman of the management, Secretary of the management, three local members nominated by the management, three teachers elected by the institution, one non-teaching employee and Principal- Member Secretary.

The frequency of meeting: Twice in a year

The duties of the local managing committee are:

- Prepare the budget and forward it to the governing body.
- Determine the program of instruction and internal evaluation and to discuss the progress of studies in the college.
- Monitor the academic function of the college and extracurricular and co-curricular activities.
- Make recommendations to the management for the improvement of the standard of teaching in the college.
- Formulate proposals of new expenditure not provided for in the college budget if any.

Internal Quality Assurance Cell (IQAC)

To ensure quality in the teaching-learning process and maintain academic up gradation IQAC is formed. IQAC works towards the realization of the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institutions.

Table 10.1.2c Members of Internal Quality Assurance Cell (IQAC)

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

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.

Table 10.1.2d Frequency of Administrative bodies meetings

Name of Committee	Frequency of Meeting	2018-19		2019-20		2020-21	
		Date of Meeting	No of Present Members	Date of Meeting	No of Present Members	Date of Meeting	No of Present Members
Governing Body	2	2/06/2018	11	15/08/2019	10	15/06/2020	11
		26/01/2019	10	26/01/2020	10	15/06/2021	11
College Development Committee	2	2/06/2018	07	14/06/2019	07	17/05/2021	11
		2/01/2019	07	16/05/2020	11	NA	NA
Internal Quality Assurance Cell	2	11/09/2018	10	26/01/2020	14	15/06/2020	14
		15/11/2019	16	NA	NA	23/02/2021	15

Name of Committee	Frequency of Meeting	2021-22		2022-23	
		Date of Meeting	No of Present Members	Date of Meeting	No of Present Members
Governing Body	2	15/06/2021	11	13/08/2022	12
		11/03/2022	12	04/03/2023	10
College Development Committee	2	17/05/2021	14	12/06/2023	10
		NA	NA	17/08/2023	10
Internal Quality Assurance Cell	2	14/06/2021	14	12/08/2022	14
		03/03/2022	13	03/03/2023	14

dbatu.ac.in/academic-council/

7 September 2023 | Skip to Main Content | Screen Reader Access | Select Language | Font Resize: AA

Dr. Babasaheb Ambedkar Technological University
 डॉ. बाबासाहेब आंबेडकर तंत्रशास्त्र विद्यापीठ
 Lonere-402103 Tal- Mangaon, Dist- Raigad (M.S.) India.

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Academic Council

Academic Council

Sr. No.	Name & Address	Designation
01	Professor (Dr.) Karbhari V. Kale Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Lonere	Chairman
02	Dr. S.L. Nalbalwar Dean (FoET)	Member
03	Dr. S.M. Pore Dean (R&D)	Member
04	Dr. H.N. Warhalkar Head, Department of Mechanical Engineering	Member
05	Dr. A.W. Kivelekar Head, Department of Computer Engineering	Member
06	Dr. Sangita Dahotre Head, Department of Physics	Member
07	Dr. S.M. Jadhav Head, Department of Information Technology	Member
08	Dr. A.R. Chavan Head, Department of Chemical Engineering	Member
09	Dr. Sangita Melkar Head, Department of Petrochemical Engineering	Member
10	Dr. A.P. Shesh Head, Department of English	Member
11	Dr. MFAR Satarkar Head, Department of Electrical Engineering	Member
12	Dr. H.A. Mujawar Head, Department of Chemistry	Member
13	Dr. Vilas Pharande Principal, Arvind Gavali College of Engineering, Pune	Member

National Education Policy 2020

Quick Links

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- Perspective Plan (2020-25)
- Perspective Plan (2016-21)
- Strategic Plan (2016-21)
- Annual Reports
- AQAR
- Mandatory disclosure
- AICTE EOA/LOA
- NISP Action Plan Dr. BATU Lonere
- National Innovation and Start Up Policy
- Governance
 - The Chancellor



10.1.2f Staff member Mr. Arjun Kadam is university level Avishkar event coordinator

Administrative Setup

The key components of the organizational structure of the Institute are Secretary, Principal, HODs, Teaching, and Nonteaching staff. Various committees with well-defined functions give academic and administrative leadership to the Institution. Organizational Structure of institute depicted in figure below.

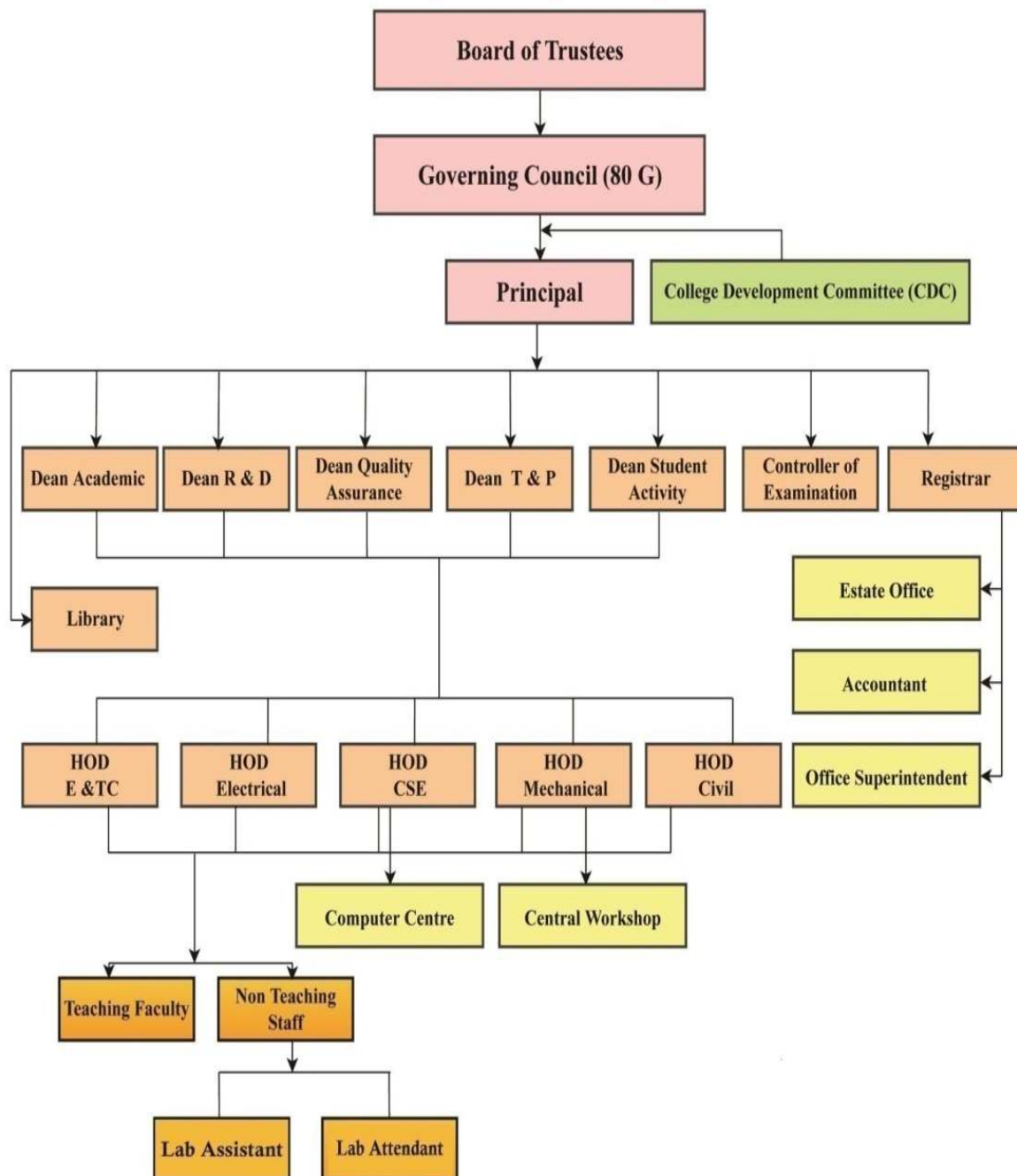


Fig 10.1.2g Organizational Structure

Duties & Responsibilities:

Each employee in the institute has some responsibilities and the employees should 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 down by the college and see to it that they are enforced.
- ✓ To sanction the leave of the staff as per the norms.
- ✓ To communicate with University, Directorate of Technical Education, All India Council for Technical Education and University Grants Commission for compliance.
- ✓ Organize meetings of Governing Body and Local Managing Committees and maintain minutes of the meeting.
- ✓ To execute any other work assigned by the management.
- ✓ To monitor and promote technical and non-technical, co-curricular and extracurricular activities like seminars, workshops, cultural and sports events with the assistance of Dean & HOD.

2) Dean - Academics

- ✓ Responsible for preparing a timetable and Smooth execution of it in all departments with the help of Head of the Departments.
- ✓ To prepare the Institute academic calendar
- ✓ 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.
- ✓ To execute any other work assigned by the Principal and management.

3) Dean – R & D

- ✓ 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.
- ✓ 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 students about the events and take necessary action.
- ✓ 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.
- ✓ To keep watch on hostel and campus for ragging free environment.
- ✓ To counsel students for any issue that may arise.
- ✓ To assist the Principal in all students related issues.
- ✓ To execute any other work assigned by principal & management.

7) Controller Of Examination (COE)

- ✓ 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.
- ✓ 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.
- ✓ To execute the admission process and University Examination process of students.
- ✓ To handle student grievances and taking remedial action.
- ✓ To execute any other work given by management.

9) Librarian

- ✓ To implement all library rules as defined by the management.
- ✓ Responsible for the overall functioning of the library.
- ✓ Responsible for the procurement of recommended books, daily newspapers, journals, magazines, videos, CDs, audio cassettes, e-books, online resources, etc. and renewal of books/magazines.
- ✓ To display all technical articles, literature and new arrivals.
- ✓ To circulate & distribute magazines, literature, etc. to faculties & management and maintain records of the same.
- ✓ 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.
- ✓ 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
- ✓ To maintain discipline and enforce rules as laid down by the institute, in the department.
- ✓ To monitor the day-to-day activities of the department.
- ✓ To plan for the semester and academic year, in terms of activities, guest lectures, workshops, etc. for the benefit of the student and faculty.
- ✓ To conduct regular meetings with teaching and non-teaching staff as well as the Class Representatives along with Class Teacher to sort out any issue and queries related to academics.

- ✓ To execute any other work assigned by the Principal and management.
- ✓ To prepare the department requirements and budget needed.
- ✓ 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.
- ✓ To initiate the purchasing of equipment.
- ✓ To provide support for various software servers.
- ✓ To ensure continuous internet during assigned hours.
- ✓ To give support to the On-line exam, Seminar, Workshop, technical training program.
- ✓ 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.
- ✓ Acts as the office in-charge of the security/sanitation of the institute.
- ✓ Inspects the buildings structures, roads, etc. under his charge as often as necessary and examine their condition from safety and maintenance point of view and take/suggest necessary action.
- ✓ Prepares progress reports on on-going work and report the same to the authorities of the institute on a monthly basis.
- ✓ Ensures the successful achievement of the targets fixed for completion of each project/works

with due consideration for speed and economy of scale and/or proper maintenance of building structures, water supply channels and regular maintenance of all the electric generators and ensuring proper use of the same.

- ✓ Executes any other works assigned from time to time.

14) Accountant

- ✓ Keeps account of financial transactions such as admission fees, examination fees, hostel fees etc.
- ✓ Keeps account of all the financial transactions related to repair, maintenance, purchase etc.
- ✓ Disburses salaries for the employees of the College.
- ✓ Prepares the annual account, get it audited.
- ✓ 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.
- ✓ 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.
- ✓ To organize the laboratory for oral and practical examinations.
- ✓ To take corrective action for any breakage / loss etc.
- ✓ To ensure the safety and cleanliness of the laboratory and switch off all equipments after use.
- ✓ The Lab Assistants are required to assist the respective laboratory in-Charge for smooth

functioning of the laboratories.

- ✓ All the Lab Assistants are required to report matters like maintenance/repairing requirement, theft, damage etc. within the respective labs, to the HOD through faculty in charge of lab.
- ✓ Lab Assistants in coordination with Lab In-charge should display (i) List of Equipment's/software with cost (ii) List of Experiments (iii) Lab Time Table (iv) Names of Lab In-charge / Lab Assistants etc. on the laboratory Notice board.
- ✓ All laboratory in charges are responsible for maintaining the laboratory utilization record Laboratory theft/damage prevention

18) Lab Attendant

- ✓ 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.
- ✓ To clean classrooms, laboratories, and staff rooms on every day.
- ✓ To clean benches in classroom and laboratory, equipment's in laboratory and staff tables.
- ✓ To clean a particular classroom, laboratory, or staff room if required on urgent basis.
- ✓ To assist the laboratory assistant while performing practical if required.
- ✓ To shift the equipment in/out of the laboratory whenever required.
- ✓ To circulate required documents to staff for signatures.
- ✓ To get the documents photocopies as required by HOD office/staff.
- ✓ To make arrangements of tables, chairs during the examination/functions in the department.
- ✓ To perform examination duties during internal as well DBATU examinations.
- ✓ To attend HOD office and perform duties assigned by HOD and staff from time to time.

B. Service rules

As institute is affiliated Dr. Babasaheb Ambedkar Technological University. In pipeline with the service rules framed by university, institute have prepared **PROCESS HANDBOOK** which contains service rules, policies, and procedures for the institution are in place and documented. Since 2019, the **PROCESS HANDBOOK** is made available in the departments and is available on the institute website. They are also made known to all newly recruited staff members through a HOD Meeting/induction program. Rules and regulations are modified as and when needed. Important information is regularly informed through circulars and during staff meetings

Procedures Recruitment

Recruitment

- Recruitment is done before commencement of Academic Year, and payment will be made as per AICTE scale.
- Recommendations of the selection committee comprising of Chairman, Administrator, Principal/Designated Authority, and respective HOD will be placed before the AGCE Governing council, along with details of sanctioned posts, for final approval.
- At the time of joining all appointees should submit original certificate, equivalence certificate.
- Every member of the staff shall agree to abide by all the conditions laid down by the Institution.

Promotional policies

1. 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.

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 Gholap	HoD Dept of Mechanical Engineering
6	Dr. Bamane Prashant Ramesh	HoD Dept of Civil Engineering
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. IQAC
3. Examination Committee
4. University/AICTE/DTE Committee
5. Promotional Activity Committee
6. Training & Placement Committee
7. Alumni Committee
8. R & D and IPR
9. Infra administration & Maintenance
10. ICT Committee
11. Anti ragging Committee
12. Reservation Committee
13. Internal complaints Committee
14. Extracurricular Activities Committee
15. Grievance & Redressal
16. Library

1. Academic Monitoring

In-line with DBATU academic calendar, Institute prepared its academic calendar and also respective departments prepared its calendar. Based on the Institute's academic calendar, every department carried out their work load distribution based on their domain of expertise and prepared the respective Time table and got it approved from AMC and the Head of Institute. As per the University guidelines lectures and practical were commenced. Internal academic monitoring was carried out and necessary action taken.

Guardian faculty mentoring system is implemented in the Institute wherein 15 to 20 students are assigned to a faculty member who acts as their mentor for the entire program. Mentor regularly interacts with the students and monitors their academic performance and attendance. Students are counselled by the mentors, class coordinator, faculty and HOD for improving their academic performance and attendance. Mentors and Class Advisors counsel the students regarding their performance and schedule additional lectures/practical. The students are given guidance for academic, career, and also on personal issues. The mentors discuss with each and every student on an individual basis and support them in all the possible ways to improve their academic performance. The mentors always keep a check on the attendance of the student, the marks/grades obtained in the internal and external examinations.

Sr. No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal, Arvind Gavali College of Engineering Satara
2	Mr. Ghadage Suraj	Coordinator	Assistant Professor, Mechanical Engineering
3	Dr. Nayak Meghya Banoth	Coordinator	Assistant Professor, Electrical Engineering
4	Mrs. Kasture Ashwini	Coordinator	HOD, Core Science Engineering
5	Mr. Somesha N.S.R	Member	Assistant Professor, Electrical Engineering
6	Mrs. Ghate shital	Member	Assistant Professor, Civil Engineering
7	Mr. Naik Somesha	Member	Assistant Professor, Electrical Engineering
8	Ms. Mulla Samina	Member	Assistant Professor, Computer Science & Engineering
9	Ms. Nalawade Sanskruti	Member	Assistant Professor, E&TC Engineering

2. IQAC

The IQAC Committee includes all stakeholders of the Institute, i.e. students, alumni, all department and Section Heads, including the Library, Sports, Students Hostel, Examination & Evaluation, Co-curricular and Extra-curricular activity members, Management, Local community and Industry experts.

Sr. No.	Name	Designation	Designation Organization
1	Dr. Vilas Pharande	Chairman	Principal, Arvind Gavali College of Engineering Satara
2	Mr. Vishal Hingmire	Coordinator	Assistant Professor, E& TC Engineering
3	Mr. Nitin Kanse	Member	Registrar, AGCE, Satara
4	Mr. Chetan Nalawade	Member	MD, Shuddha Milk and Milk Products, Satara
5	Mr. Samadhan Jadhav	Member	MD, Satara Engineering Work, Satara
6	Mrs. Shakuntala Pawar	Member	HR Head, Mutha Foundry, Satara
7	Mr. Omkar Waikar	Member	CEO, Supreme Silicones & Trinity Enterprises, Pune
8	Mr. Abhay Khanaure	Member	MD, Meretech, Pune
9	Mr. Sushant Gaikwad	Member	Social worker & Coordinator at Mhada, Pani Foundation
10	Mr. Rohit Bhole	Member	MD, 3 Star IT Solution, Satara
11	Mr. Abhay Gujar	Member	Assistant Professor, AGCE, Satara
12	Mr. Suhas Patil	Member	Assistant Professor, AGCE, Satara
13	Mr. Somesh N.S.R	Member	Assistant Professor, AGCE, Satara
14	Ms. Ashwini Kasture	Member	Assistant Professor, AGCE, Satara
15	Ms. Shital Ghate	Member	Assistant Professor, AGCE, Satara
16	Mrs. Rajani Mandhare	Member	Assistant Professor, AGCE, Satara

2. Examination Committee

The Institute has a college level Exam committee. This committee works under the supervision of Head of the Institute. The Institute exam committee responsible for the preparation of Timetable, setting of question papers, evaluating the answer sheets, preparing the results and declaration of the same. The evaluated answer sheets are shown to the students for any grievances. The grievances of the students are considered and looked into. The main reforms initiated by the Exam Cell Committee are the timely declaration of results and moderation of the question papers. For continuous evaluation process, internal tests, assignments, quiz, presentations, lab work, seminars etc are taken into consideration. Term work marks are given to the student depending on the performance in the internal assessment. The rubrics for each practical and tutorial are based on the parameter which takes into consideration: the performance, lab ethics, self-learning initiative, conceptual understanding, punctuality and attendance. And also the Institute, Controller of Examination conduct the end semester examination in line with the time table received from University.

Table 10.1.3.d Examination committee members

Sr. No.	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mr. Kadam Arjun	Coordinator	Assistant Professor, Mechanical Engineering
3	Mrs. Mandhare Rajani	Coordinator	Assistant Professor, CS & Engineering
4	Mr. Nikam Vikas	Member	Assistant Professor, Civil Engineering
5	Ms. Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
6	Mr. Kadam Vijay	Member	Assistant Professor, E&TC Engineering
7	Ms. Pooja Bhosale	Member	Assistant Professor, Core Science Engineering

4. University/AICTE/DTE

This committee ensures University affiliation, Extension Of Approval (EOA) from AICTE, facilitation centre for centralised admission process from DTE.

Table 10.1.3.e University/AICTE/DTE committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mrs. Mandhare Rajani	Coordinator	Assistant Professor, CS & Engineering
3	Mr. Kanase Nitin	Coordinator	Registrar, Office
4	Mrs. Alatkhar 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	Assistant Professor, Mechanical Engineering
4	Mr. Sapkal Rajendra	Member	Assistant Professor, Civil Engineering
5	Mr. Chavan Santosh	Member	Assistant Professor, E&TC Engineering
6	Ms. Kuthe Priya	Member	Assistant Professor, Core Science Engineering

7. Alumni Committee

Alumni Cell, the single point of contact between Alumni and Institute, offers our alumni a host of services that enables them keep in touch with their batch mates and also of the different activities conducted in the Institute.

Table 10.1.3.h Alumni Committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Mr. Chavan Santosh.	Coordinator	Assistant Professor, E&TC Engineering
3	Dr. Nayak Meghya Banoth	Coordinator	Assistant Professor, Electrical Engineering

4	Mr. Kamble Ravi	Member	Assistant Professor, Mechanical Engineering,
5	Mr. Sapkal Rajendra	Member	Assistant Professor, Civil Engineering
6	Mrs. Kadam Anuradha	Member	Assistant Professor, CS & Engineering
7	Ms. Kuthe Priya	Member	Assistant Professor, Core Science Engineering

8. R & D and IPR

Research and Development cell designs annual research activity plan for all the departments, establish liaison with near and far industries and identify the technological challenges being faced by them. These problems of the industry are taken up as projects for finding solutions through R&D which are assigned to both faculty members and students. To initiate and promote MoUs with Industries for consultancy, collaborative research, sponsored projects, Industry and Institute interactions etc. To motivate students for presenting papers in National and International conferences, Demonstrate projects in various competitions.

Table 10.1.3.h R & D and IPR committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Dr. Mirajkar Gayatri	Coordinator	Assistant Professor, E&TC Engineering
3	Dr. Salman Waremani	Member	Assistant Professor, Mechanical Engineering
4	Mr. Shinde Suraj	Member	Assistant Professor, Civil Engineering
5	Mr. Gujar Vijay	Member	Assistant Professor, CS & Engineering
6	Mr. Chavan Santosh	Member	Assistant Professor, E&TC Engineering
7	Ms. Bhilare Nikita	Member	Assistant Professor, Core Science Engineering

9. Infra administration & Maintenance

The Committee a setup to look and take care of the maintenance of the overall infrastructure of the Institute. The Institute has well equipped infrastructural facilities for the efficient conduction various examinations.

Table 10.1.3.i Infra administration & Maintenance committee members

Sr.No	Names of members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Ms. Mulla Samina	Coordinator	Assistant Professor, CS & Engineering
3	Mr. Nikam Vikas	Coordinator	Assistant Professor, Civil Engineering
4	Mr. Naik Somesha	Coordinator	Assistant Professor, Electrical Engineering
5	Mrs. Alatkar Manisha	Member	Assistant Professor, Mechanical Engineering
6	Dr. Nayak Meghay Banoth	Member	Assistant Professor, Electrical Engineering
7	Mrs. Kandarkar Sucharita	Member	Assistant Professor, E&TC Engineering
8	Ms.Shinde Swapnali	Member	Assistant Professor, Core Science Engineering

10. ICT Committee

ICT Committee is actively involved in the proper maintenance of the various digital working tools like an ICT panel which includes 3-Smart boards, 6-Overhead projectors, well equipped computer labs. For any maintenance the committee looks into the same and the problem is rectified.

The committee also encourages maximum students participation in various online programs available under NPTEL/MOOCs, for their overall development.

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. Alatkhar Manisha	Member	Assistant Professor, Mechanical Engineering
6	Dr. Nayak Meghay Banoth	Member	Assistant Professor, Electrical Engineering
7	Mrs. Kandarkar Sucharita	Member	Assistant Professor, E&TC Engineering
8	Ms.Shinde Swapnali	Member	Assistant Professor, Core Science Engineering

11. Anti ragging Committee

These committees ensure that at least one faculty member will be present at any particular time at all the locations to curb ragging. Instructions are given to student volunteers to take precautionary measures to avoid ragging at locations like Canteen, bus stops and canvass about anti-ragging through the use of Flexes, Posters and Boards in the Institute premises and surrounding areas where there is a chance of ragging. Fresher's and parents are guided and counselled against ragging and affidavits duly signed the students and parents, against ragging are taken at the time of admission.

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.

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. Alatkhar 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.

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.

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.o 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

Table 10.1.3p Grievance Redressal Cell


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. Alatkhar 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

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:




SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING
 Estd. - 2010 - AGEN - Accredited by HAAC
 Approved by AICTE, New Delhi. Recognized by Govt of Maharashtra DTE Mumbai & Affiliated to Shivaji University Kolhapur & B.A.U.L. Lonere

To,
 Mr. Mane Yashraj Deepak,
 SY B.Tech,
 Department of Civil Engineering,
 AGCE Satara


Subject: Regarding Suspension letter

We have observed that you have disobeyed the rules and regulations laid down by the institute. Considering your career, one opportunity is being given to you. We are issuing you a show cause notice for the incident which occurred in the Institute campus on 25th May 2022. Also misbehavior in CA-I exam & mid sem exam in the examination hall with staff members & students. It is observed that misbehavior with students & other departmental staff in canteen, Sports activity & cultural activity. Subsequently, you have been served with suspension w.e.f. 26th May 2022. Your attendance is 0%.


So, submit your apology letter stating that such an incidence will not be repeated again; otherwise you will be responsible for your academic loss.



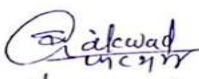
Class coordinator




Head Engineering Civil Department
 IRVIND GAVALI COLLEGE OF ENGINEERING, Satara
 Panmalewadi (Varve)



Dr. Vilas Pharande
 Principal
 Arvind Gavali College Of Engineering
 Panmalewadi, Satara



At 7/6/22/18.20
पोलीस स्टेशन ऑफिसर
सातारा तालुका पोलीस स्टेशन



Mr. Baqwan Saheb
 7743885761

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.

Table 10.1.3q Internal Complaints Committee (ICC) / Women's Grievance Cell

Internal Complaints Committee (ICC) / Women's Grievance Cell			
Sr. No.	Names of committee members	Designation	Department
1	Dr. Pharande Vilas Arjun	Chairman	Principal
2	Dr. Mirajkar Gayatri	Coordinator	Professor, E&TC Engineering
3	Dr. Thombare Vijay	Member	Professor, Civil Engineering
4	Mrs. Alatkar Manisha	Member	Assistant Professor, Mechanical Engineering
5	Mr. Patil Suhas	Member	Assistant Professor, Mechanical Engineering
6	Mr. Khairmode Omkar	Member	Assistant Professor, Mechanical Engineering
7	Mrs. Ghate Shital	Member	Assistant Professor, Civil Engineering

8	Miss. Mali Ashlesha	Member	Assistant Professor, Electrical Engineering
9	Mrs. Sawant Ashwini	Member	Assistant Professor ,Computer Science & Engineering
10	Mrs. Pawar Snehal	Member	Assistant Professor, Core Science Engineering
11	Mrs. Ghadge Rupali	Member	Clerk
12	Mrs. Shinde Jayashri	Member	Assistant Librarian
13	Miss. Lalge Prajkta	Member	Student, Mechanical Engineering
14	Miss. Jadhav Akanksha	Member	Student, Electrical Engineering
15	Miss. Yadav Bhagyashri	Member	Student, CSE Engineering
16	Miss. Pawar Akanksha	Member	Student, E&TC Engineering
17	Mr. Shelke Siddheshwar	Member	Student, Civil Engineering
18	Miss. Chavan Nikita	Member	Student, First Year Engineering
19	Miss. Jadhav Vrunda	Member	Student, Polytechnic Engineering

Standard Operating Procedure (SOP) of ICC:

- Any female student or employee wants to initiate a grievance may in the first instance bring the issue to the notice of the Head of the respective department, who will forward the matter to Women's Grievance Cell Scrutiny: Women's Grievance Cell will make a thorough review of the Redressal process.
- Call for hearing: Women's Grievance Cell shall fix a date for hearing and intimate the same to the grievant.
- Investigation: If a resolution is not achieved through hearing, then it will take necessary steps to conduct an investigation of the facts. Women's Grievance Cell will have the right to interview witnesses, if it is required. On the basis of investigation by Women's Grievance Cell, report will be submitted to the Head of Institution. The Women's Grievance Cell shall use its best efforts to work out resolutions of the issue.
- Communication the decision: Upon completion of proceedings, the Head of Institution and Women's Grievance Cell shall communicate the final decision to both parties.
- The proceeding concerning each grievance will be documented in a systematic manner. The information relating to the proceedings shall be treated as confidential and can be viewed only by the members of Women's Grievance Cell, for the purpose of investigation

3.0 Anti-Ragging Committee:

Ragging is a very common problem faced by students in the campus during and after college hours. The consequences of students who faced ragging are very serious and shocking. Thus, this committee was constituted to control ragging and provide relief to students who come under this shadow. The committee has the powers to take stringent action on students involving in such activities. Committee comprises of the following members.

Table 10.1.3r Anti ragging Committee

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
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 (10)

A. Financial powers delegated to the Principal, Heads of Departments and relevant in-charges (3)

B. Demonstrate the utilization of financial powers for each of the assessment years (7)

In order to discharge the day-to-day functions and activities of the Institute in smooth manner, the financial powers are delegated of the Principal, HODs and Deans by the Management. HODs and Deans also prepare budget of the Department and their relevant functional committees. Total budget of the college is prepared by Administrative Office under guidelines of Principal and Management.

Table 10.1.4a Delegation of Financial Power

Sr. No.	Designation	Financial Power
1	Principal	Authorized to sanction up to Rs. 50,000/-
2	HODs and Deans	Authorized to sanction up to Rs. 5,000/-

Following are the some examples where financial powers are delegated of the Principal & staff members

To
Principal
AGCE

Date
6/09/2022

Sub: Lab for New Computer
Lab Development

We develop new computer
Lab, for this we required some new
material. New material list attach
with this application. So full fill
this requirement

Yours faithfully
Arundha

Rs. 17150/-

Approx.
Need Lab development.
Discused with Hon-Secretary sir
regroding location & working
installation.
VAT

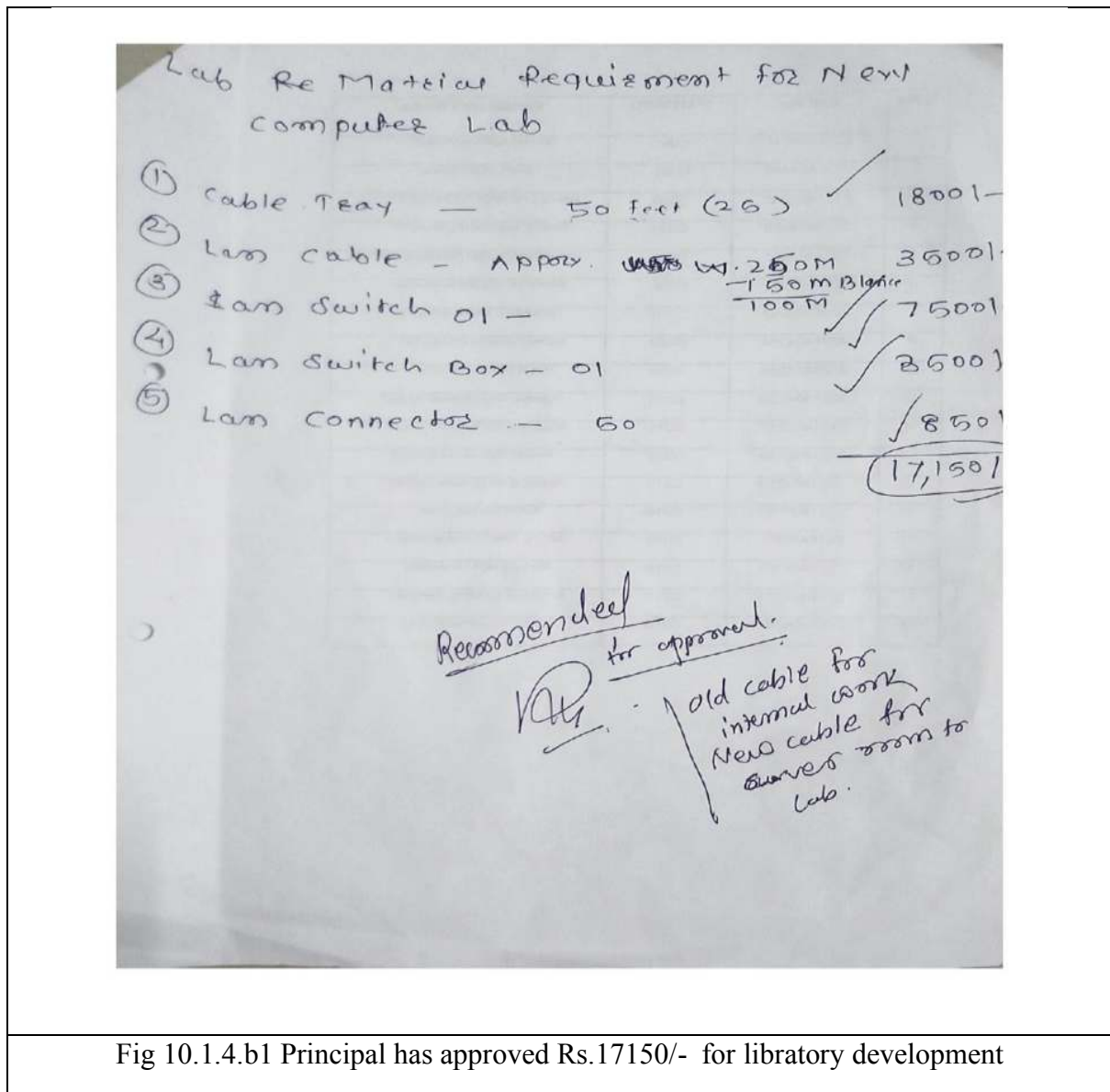


Fig 10.1.4.b1 Principal has approved Rs.17150/- for libratory development

Date: 18/07/2022

To
The Principal
AGCE satara

Sub : Regarding requirement of solar panel structure working in workshop

Respected sir,

Detail of consumable given in the following table

Sr no	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	900
4	Bearing & casing 25	02	1500
5	Shaft 25*3	01	1500
6	Hydraulic	04	8000
7	fasnar	20	500
8	Square plate (4*4*5)	01	100
9	Square plate (6*6*5)	01	400
10	consumable	--	2000
11	universal joint	01	1450
12	Transport	--	500
TOTAL			23985/-

Please sanction above amount.

15,756/- cash. 11/8/2022
8,226/-

Account.
Under sponsored
category.

VP

~~Signature~~
Thanks & Regards
Mr. Kadam Akshaykumar B.
(Work shop incharge)
Signature

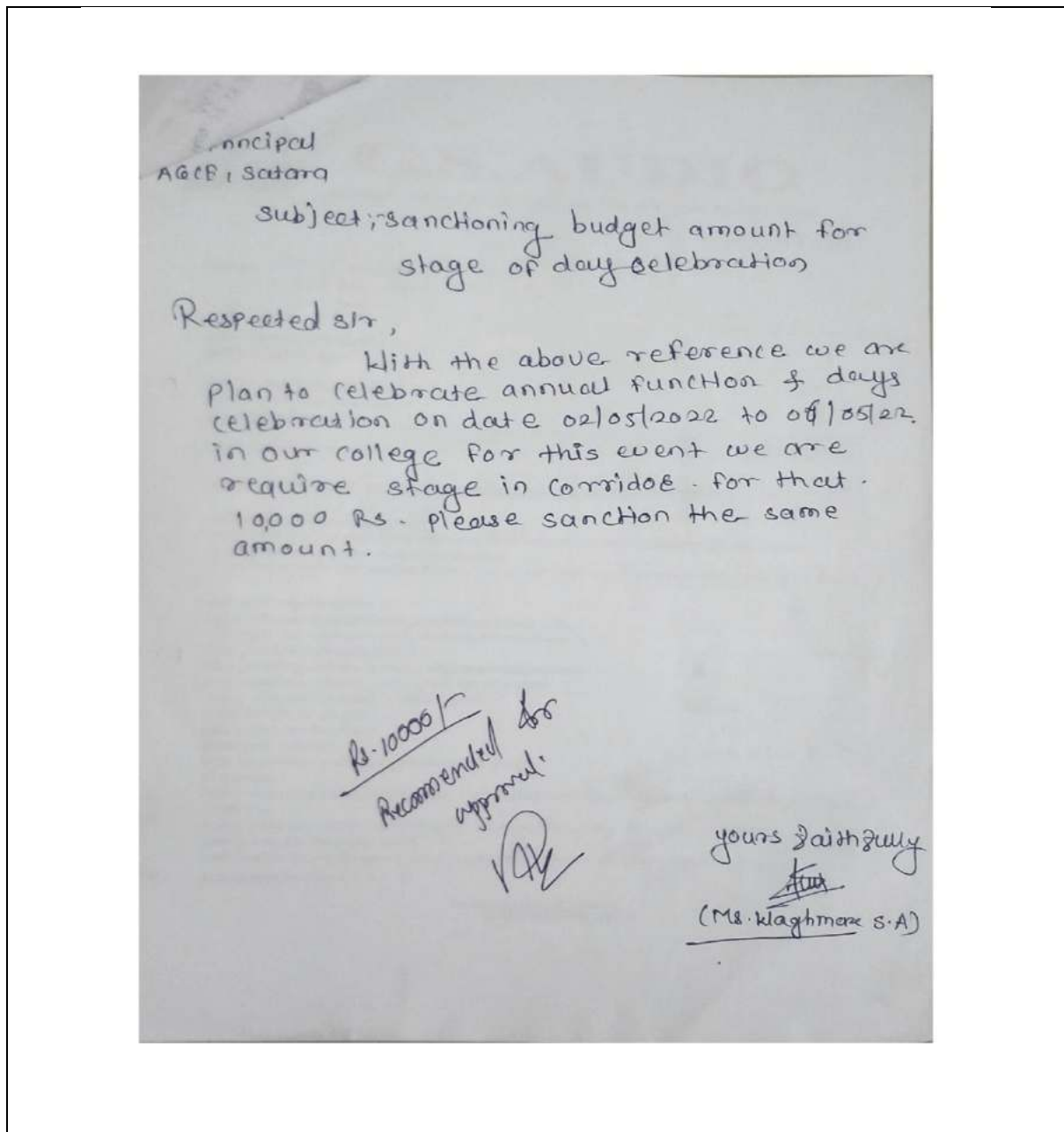


Fig 10.1.4.b2 Principal has approved Rs.10000/- for extracurricular activities

To,
The principal
AGCE Satara.

Subject: Regarding maintenance of surveying lab

Respected Sir,

Maintenance is required for 3 theodolites & 1 dumpy level in surveying lab. We have taken its quotation from Micron instruments Nashik. I want permission to handover the instruments to micron instruments for maintenance.

Kindly give permission for the same. The revised quotation after inspection of instruments is attached with this application.

As per revised quotation total amount of maintenance is as follows:

Instrument	Instr No.	amount
Theodolite	05/11 TDL	4275/-
	01/10 TDL	4350/-
	03/11 TDL	3375/-
Dumpy level	01/10	2100/-
		<u>15,300 + 18% GST (on instrument parts)</u>

2) 11000 service charges.
1) 4000 + GST Bill 18%

Instrument handover date: 15/10/2019
Maintenance upto dated: 05/11/2019

(Signature)
(Ms. Tadhav R. D.)
Lab In-charge

(Signature)
Pharande S. B.
HoD, ETL Dept.

(Signature)
T. J. ...
...

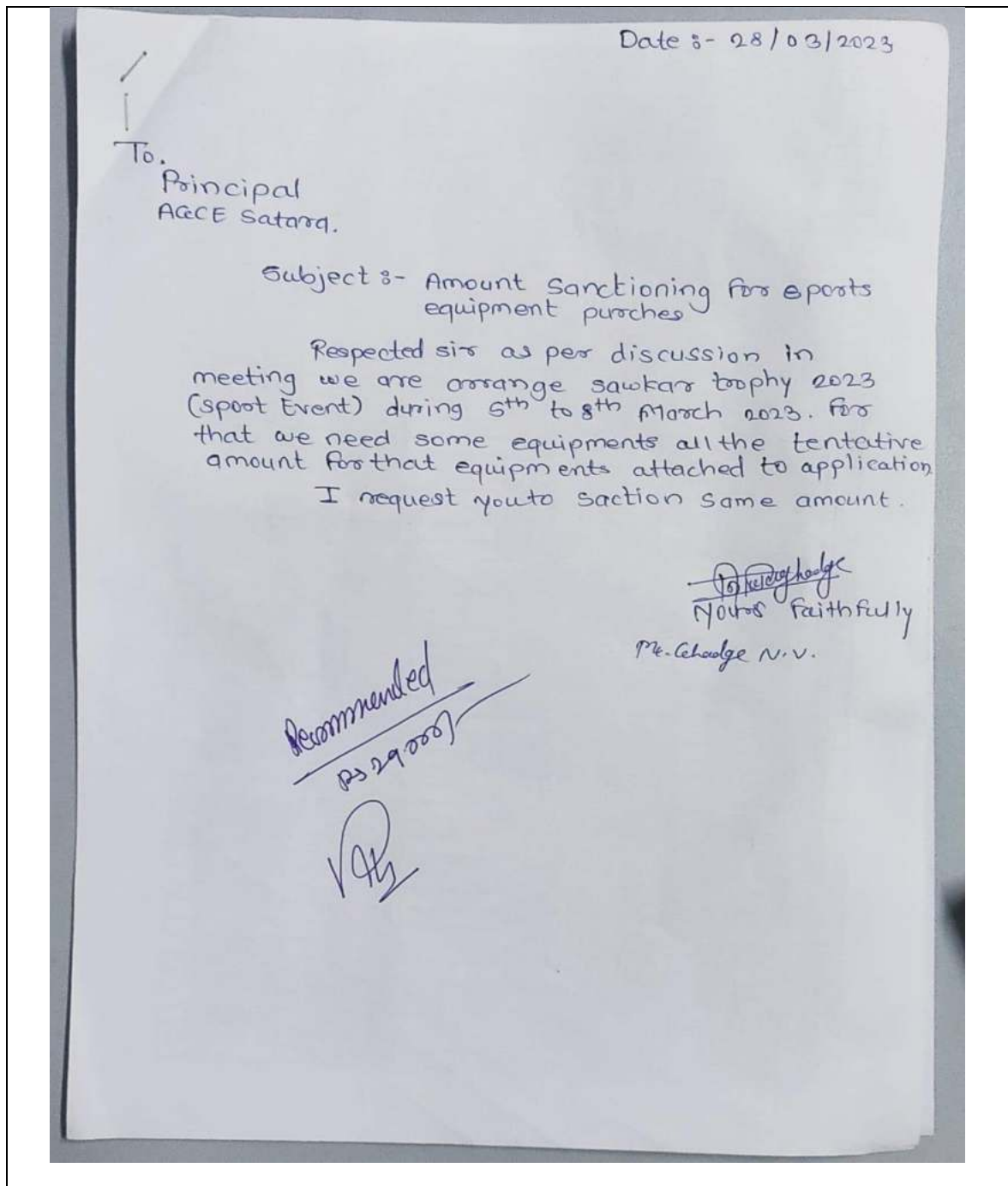



Fig 10.1.4.b3 Principal has approved Rs.15000/- for Sports activities



Tax Invoice/Bill of Supply/Cash Memo
(Original for Recipient)

Sold By :
Payal Enterprises
* 4658 A / 21 ANSARIROAD, ANSARI ROAD
DARYA GNAJ, DELHI, 110002
IN

PAN No: AAPFP4704K
GST Registration No: NotApplicable


Order Number: 402-0209171-6497171
Order Date: 27.03.2023

Billing Address :
Arvind Gavali College of Engineering
Gat no. 247, Panamalewadi
SATARA, MAHARASHTRA, 415015
IN
State/UT Code: 27

Shipping Address :
Arvind Gavali College of Engineering
Arvind Gavali College of Engineering
Gat no. 247, Panamalewadi
SATARA, MAHARASHTRA, 415015
IN
State/UT Code: 27
Place of supply: MAHARASHTRA
Place of delivery: MAHARASHTRA
Invoice Number : IN-16968
Invoice Details : DL-141916061-2223
Invoice Date : 27.03.2023

Sl. No	Description	Unit Price	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	Embedded Microcomputer System Real Time Interfacing 8131516326 (9788131516324)	₹608.00	1	₹608.00	0%	IGST	₹0.00	₹608.00
	Shipping Charges	₹100.00		₹100.00	0%	IGST	₹0.00	₹100.00
					0%	IGST	₹0.00	
					0%	None	₹0.00	
TOTAL:							₹0.00	₹708.00

Amount in Words:
Seven Hundred Eight only

For Payal Enterprises:

Authorized Signatory

Whether tax is payable under reverse charge - No

*ASAPL-Amazon Seller Services Pvt. Ltd., ARPL-Amazon Retail India Pvt. Ltd. (only where Amazon Retail India Pvt. Ltd. fulfillment center is co-located)
Customers desirous of availing input GST credit are requested to create a Business account and purchase on Amazon in business from Business eligible offers
Please note that this invoice is not a demand for payment

Page 1 of 1

Fig 10.1.4.b4 Staff member has purchase book from their account for library

10.1.5 Transparency and availability of correct/unambiguous information in public domain.

- a. Information on the policies, rules, process is to be made available on website
- b. Dissemination of the information about students, faculty and staff.

The college maintains transparency in all its operations and working. At the beginning of every academic year, the college brings out a calendar, which contains all the information, required by a student and faculty to carry out his/her studies in the college. Information such as internal marks scored by students, shortage of attendance, if any, availability of scholarships, opportunities for students, etc. are promptly displayed on notice boards. Information about every activity in the college is sent to all staff and students through circulars. The institute has its own website: <https://agce.edu.in/>, which is updated as and when required. The institute and Program-specific information are made available to all stakeholders through the website.

All the required information on policies, rules, and processes are mention in Process Handbook and is made available on the college website for proper dissemination of this information to stakeholders.

Link: <https://agce.edu.in/processhandbook>

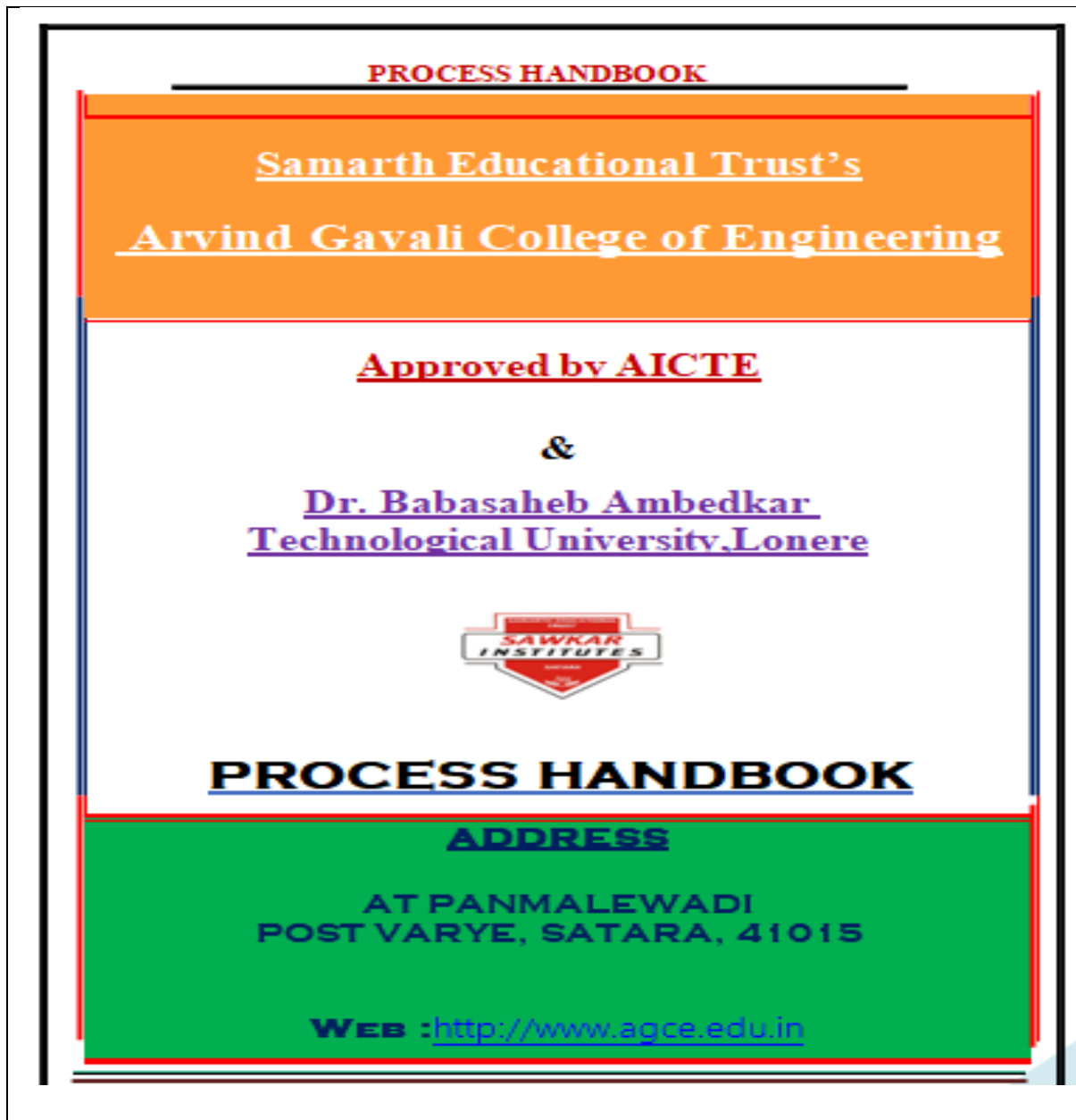


Fig 10.1.5 a Screen shot of Process Handbook first page

b. Dissemination of the information about students, faculty and staff.

Institute disseminate information through promotional activities, website, social media and print media.

i) Promotional Activities

Every year institute propagates information through faculty members in society through various promotional activities.



Fig 10.1.5 b1 Promotion activity to SSC Students

ii) Website

All necessary information including intake, latest news, events and update are made available on institute website.

The screenshot shows a web browser displaying the AGCE website. A prominent pop-up advertisement for Sawkar Institutes Satara is overlaid on the page. The advertisement includes the following information:

- Header:** SAMARTH EDUCATIONAL TRUST, SAWKAR INSTITUTES Satara, Website: www.sets.edu.in
- College Name:** ARVIND GAVALI COLLEGE OF ENGINEERING, NAAC Accredited, Website: www.agce.edu.in
- Accreditation:** Approved by AICTE, New Delhi & Govt. of Maharashtra & Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere, Varye, Satara. Institute Code: 6545. Mob: Engg: 9857108100, Poly: 906790100.
- Programs:**
 - B.Tech:** Mechanical Engg., EATC Engg., Computer Science & Engg., Electrical Engg., Civil Engg.
 - POLYTECHNIC:** Mechanical Engg., EATC Engg., Computer Science & Engg., Computer Engg., Civil Engg.
 - M.Tech:** Heat Power Engineering (Mechanical)
- Industry Oriented Skill Based B.Vocational Degree Program:** Start your Professional Career after 12th or H.S.C.
 - B. Voc Programs:** Data Science, Industrial Automation, Software Development, Industrial Tool Manufacturing.
 - Eligibility:** 10+2 pass in any stream with minimum 50% marks, ITI / Diploma. No CET/JEE Entrance Examination.
- Accreditations:** UGC, NAAC Accredited from 2016, AICTE-CII Survey Ranked as Platinum & Gold, EDUCATIONAL EXCELLENCE AWARDS - 2021 BANGALORE, KARNATAKA.
- SAWKAR SCIENCE COLLEGE:** Std. 11th & 12th Science, Computer Science (200 Marks), Crop Science (200 Marks).
- Admission Office:** 427, Shanivar Peth, Behind Sawkar Transport Office, Satara. Ph: (02162) 230100, Mob: 8975456700.

Fig 10.1.5 b2 Information about Admission and intake on website

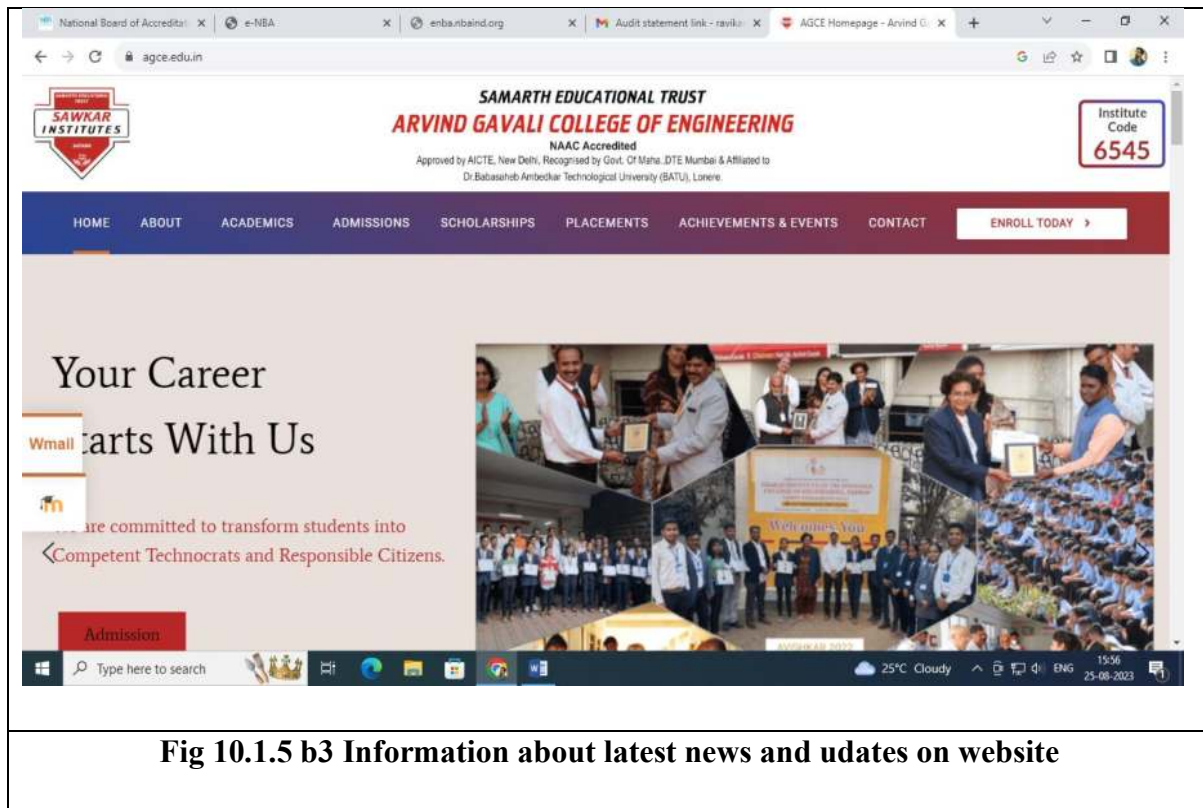


Fig 10.1.5 b3 Information about latest news and updates on website

iii) Social media

Institute disseminate information through social media like Facebook, Instagram among the stakeholders.



Fig 10.1.5 b4 Instagram page of Institute

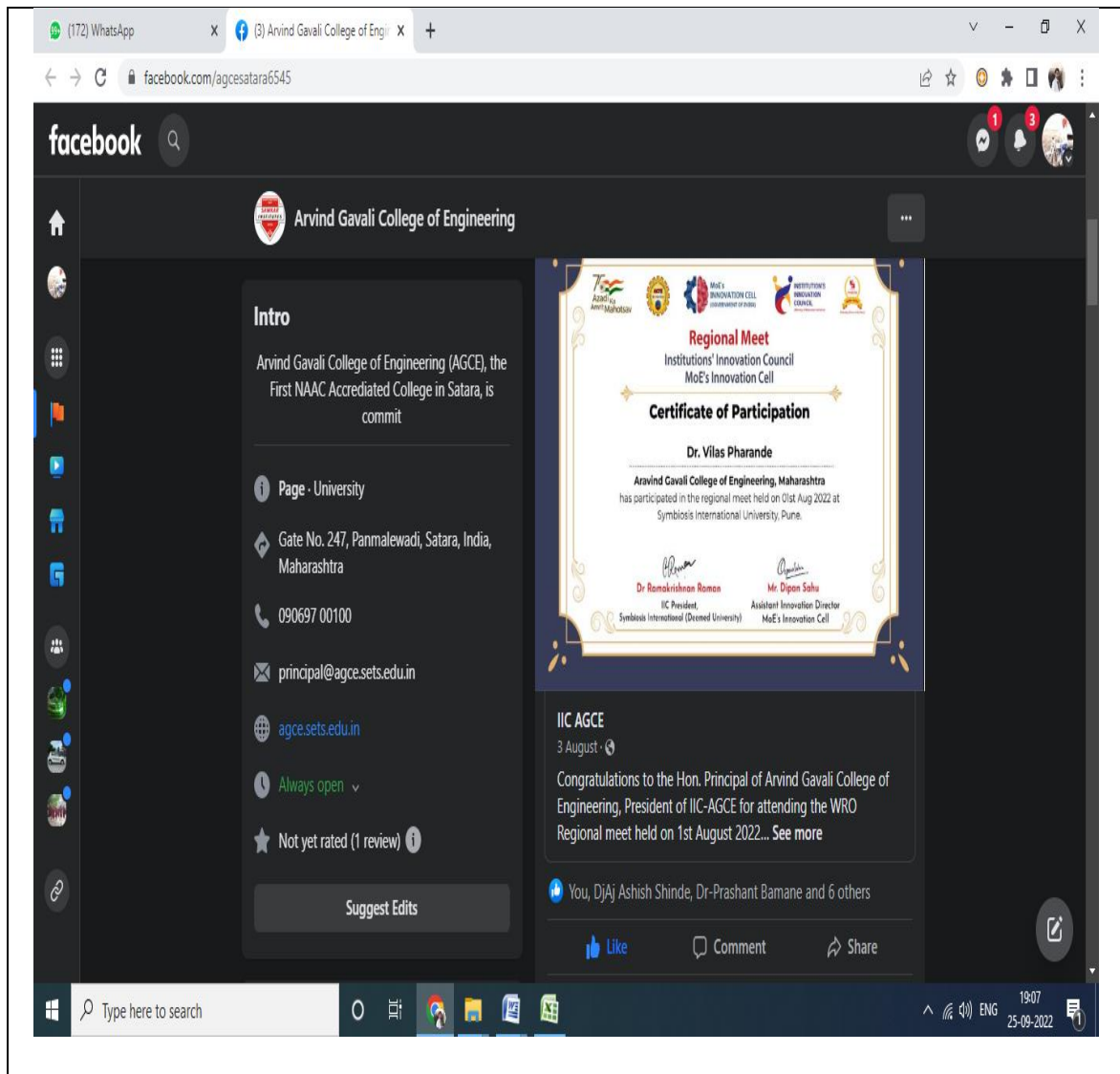


Fig 10.1.5 b5 Facebook page of Institute

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.



SAMARTH EDUCATIONAL TRUST
ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA

Approved by AICTE, New Delhi & Govt. of Maharashtra & Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere
 Website : www.agce.sets.edu.in | Email : agcenggsatara@gmail.com
 Phone : (02162) 200100 , 261122



IIT Bombay Remote Center only in AGCE Satara

10 वी, 12 वी नंतरची
तंत्रशिक्षण प्रवेश मार्गदर्शिका

1st NAAC Accredited Engineering College in Satara District

INSTITUTE CODE: 6545



- **ENGINEERING** (B.Tech. / M.Tech.)
- **POLYTECHNIC** (Diploma)

विद्यार्थी दत्तक योजने अंतर्गत
फी मध्ये सबलत

D.T.E. Online Application & Option Form Facility available

- Panmalewadi, Varye , Tal.& Dist.-Satara, Pin.-415 015
- 'Rajathadri' Compound, Near Dainik Sakal Shivaji Circle, Powai Naka, Satara.
- Near S.T.Stand Wai, Dist.-Satara.

Free

Admission Counselor Contact No.:
 Engineering : 8975456700 , 7769050100 , 9069700100
 BHMS : 9850111012 | B.Pharm : 9423863353 | Pharmacy : 9423320538

Fig 10.1.5 b6 Admission information diary



SAMARTH EDUCATIONAL TRUST
SAWKAR INSTITUTES
 Satara
 Website: www.sets.edu.in

ARVIND GAVALI
COLLEGE OF ENGINEERING
 NAAC Accredited Website : www.agce.edu.in

Approved by AICTE, New Delhi & Govt. of Maharashtra
 & Affiliated to Dr.Babasaheb Ambedkar Technological University, Lonere
 Varye, Satara
 Principal : Dr.Vilas Pharande

Institute Code: 6545



Mob : 9957100100
9069700100

B.Tech.	POLYTECHNIC
Mechanical Engg.	Mechanical Engg.
E&TC Engg.	E&TC Engg.
Computer Science & Engg.	Computer Science & Engg.
Electrical Engg.	Computer Engg.
Civil Engg.	Civil Engg.

M.Tech. Heat Power Engineering (Mechanical)

Industry Oriented Skill Based
B.Vocational Degree Program

Start your Professional Career after 12th or H.S.C

B.Voc Programs

- Data Science
- Industrial Automation
- Software Development
- Industrial Tool Manufacturing

Eligibility

- 10+2 pass in any stream with minimum 50% marks
- ITI / Diploma

No CET/JEE Entrance Examination

SAWKAR SCIENCE COLLEGE

Std. 11th & 12th Science
 Computer Science (200 Marks)
 Crop Science (200 Marks)



DBATU
Academic Excellence Award



NAAC Accredited from 2016



AICTE-CII Survey
Ranked as Platinum & Gold



EDUCATIONAL EXCELLENCE AWARDS - 2021
BANGALORE, KARNATAKA

Our Placement



Samiksha Vanjole
COGNIZANT
(Programmer Analyst)



Pratiksha Sutar
TATA Consultancy Services
(System Engineer)



Anushka Deshmukh
Infostretch Corporation India LTD.



Tanuja Chavan
WIPRO LTD, Pune
(Project Engineer)



Prajakta Nikam
INFOSYS LTD.
(Systems Engineer)



Akash Desai
TATA Communication Transformation Services

Admission Office

427,Shaniwar Peth, Behind Sawkar Transport Office, Satara. ■ Ph : (02162) 230100 ■ Mob : 8975456700



SAMARTH EDUCATIONAL TRUST
SAWKAR INSTITUTES
 Website: www.sets.edu.in
Satara

SAWKAR HOMOEOPATHIC MEDICAL COLLEGE



Approved by CCH, New Delhi & Govt. of Maharashtra. Affiliated to MUHS, Nashik
 A.M.1/1, Additional MIDC, Degaon Road, Satara-415 004

Website : www.sawkarhmc.com **Mob : 8237913663**
 Director : **Dr.Ravindra Bhosale** **9850111012**

Eligibility

- Candidate must have passed 12th Science with PCB Group
- 50 % marks for open & 45 % marks for reserved category
- NEET compulsory
- Marks criteria as decided by Government

Choice Code	Course Name
4115	B.H.M.S.



SAWKAR PHARMACY COLLEGE

website : www.sawkarpharmacycollege.com
 Approved by PCI, New Delhi & Govt. of Maharashtra & Affiliated to MSBTE, Mumbai

Jaitapur, Satara. **Mob : 7796000100**
 Principal : **Dr.Vasant Lokhande** **8275206073**

Choice Code	Course Name
6492	D.Pharm





ARVIND GAVALI COLLEGE OF PHARMACY

website : www.arvindgavalipharmacycollege.com
 Approved by PCI, New Delhi & Govt. of Maharashtra & Affiliated to Shivaji University.

Jaitapur, Satara. **Mob : 9665570772**
 Principal : **Dr.P.J.Shirote** **7796000100**

Choice Code	Course Name
6393	D.Pharm, B.Pharm, M.Pharm






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)

Table B.10.2a – CFY (2022-23)

Total Income (Amount)				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
74954259	0	0	133450	75973630	12625864.8	8900	80553.08695

Table B.10.2a - CFY (2021-22)

Total Income (Amount)				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

Table B.10.2a - CFYm1 (2020-21)

Total Income (Amount)				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
81414627	0	0	462923	61816533	10297456	74700	53197

Table B.10.2a -CFYm2(2019-20)

Total Income (Amount)				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
64740364	0	0	734740	63512329	10009259	288619	63904.94

Table B.10.2a- CFYm3(2018-19)

Total Income (Amount)				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
62384164	0	0	337745	57557774	14197280	151600	65132.84

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	11,00,000	10,28,673	3300000	3104976	0	0
Library	80,000	70,845	23000	30445	35000	13570
Laboratory equipment	11,00,000	10,60,990	1080000	1014157	655000	594030
Laboratory consumables	17,75,000	16,47,092	1120000	1023030	1055000	674170

Teaching and nonteaching staff salary	6,91,12,000	6,52,98,451	65100000	61189875	63560000	57326373
Maintenance and spares	28,75,000	27,00,109	3190000	2992063	1350000	1224440
R&D	3,50,000	3,14,190	290000	259388	90000	74700
Training and Travel	26,18,000	24,16,915	1710000	1659560	1600000	1474093
Miscellaneous expenses *(All remaining recurring exp., excl. Depreciation)	2,55,000	2,14,685	159500	148374	135000	113427
Others, specify (All remaining Capital exp.)	3,13,56,000	1,64,28,774	15177000	11686365	27540000	11287915
Total	11,06,21,000	9,11,80,725	91149500	83108233	96020000	72782718

Items	Budgeted in 2019-2020	Actual Expenses in 2019- 2020 till	Budgeted in 2018- 2019	Actual Expenses in 2018- 2019 till
Infrastructure Built-Up	0	0	0	0
Library	167000	156491	400000	138375
Laboratory equipment	850000	797104	430000	277400
Laboratory consumables	1640000	1479508	1536000	2051900
Teaching and nonteaching staff salary	63560000	57623428	69300000	50222741
Maintenance and spares	1985000	1850670	1882000	1812399
R&D	320000	288619	180000	151600
Training and Travel	1705000	1496097	1077000	2106971
Miscellaneous expenses *(All remaining recurring exp., excl. Depreciation)	91000	77900	173000	293916
Others, specify (All remaining Capital exp.)	25374000	10953838	28496520	15267127
Total	95692000	74723655	103474520	72322429

10.2.1 Adequacy of budget allocation**(10)**

During the assessment years, the institute allocated an adequate budget. Budget requirements under 'recurring' and 'non-recurring' heads are collected from all the departments and sanctions before the commencement of the financial year. Allocations are made as per the availability of funds. Spending is monitored by the accounts section. The institution carefully monitors the expenses so that the necessities are met without affecting the smooth working of the institution. The management has been very efficient in doing this over the past several years.

Adequacy of budget allocation:

10.2.1 Adequate budget allocation for institute

Sr. No	Assessment Year	Allocated Budget	Adequate/ Non-Adequate
1	2022-23	11,06,21,000	Adequate
2	2021-22	9,11,49,500	Adequate
3	2020-21	9,60,20,000	Adequate
4	2019-20	9,56,92,000	Adequate
5	2018-19	10,34,74,520	Adequate

10.2.2 Utilization of allocated Funds**(15)**

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 10.2.2 Utilization of allocated Funds of Institute

Sr. No	Assessment Year	Allocated Budget	Utilized Budget	Utilized Percentage
1	2022-23	11,06,21,000.00	9,11,80,725.65	82.43
2	2021-22	9,11,49,500.00	8,31,08,233.00	91.18
3	2020-21	9,60,20,000.00	7,27,82,718.00	75.80
4	2019-20	9,56,92,000.00	7,47,23,655.43	78.09
5	2018-19	10,34,74,520.00	7,23,22,429.17	69.89

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**(30)**

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 Students
1560859		(Amount)		(188)
		1452697		
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
215343	1345516	206258	1246439	7727

Table B.10.3a: CFY(2021-22)

(Amount)		Actual expenditure (till...):		Total No. Of Students
1522402		(Amount)		(229)
		1432921		
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
221762	1300640	210021	1222900	6257

Table B.10.3a: CFYm1(2020-21)

(Amount)		Actual expenditure (till...):		Total No. Of Students
896000		(Amount)		(220)
		747630		
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
123800	772200	108930	638700	3398

Table B.10.3a: CFYm2(2019-20)

(Amount)		Actual expenditure (till...):		Total No. Of Students
1126300		(Amount)		(164)
		1028584		
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
223000	903300	209684	818900	6272

Table B.10.3a: CFYm3(2018-19)

(Amount)		Actual expenditure (till...):		Total No. Of Students
962500		(Amount)		(133)
		920600		
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
310800	651700	55900	864700	6502

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	188000	181330	217138	203900	117500	106500
Software	13670	12820	0	0	0	0
Laboratory consumables	303366	281500	225180	205686	190000	121000
Maintenance and spares	491350	461469	641360	601560	242000	219700
R&D	59820	53700	58300	52150	16000	13400
Training and Travel	447400	413070	343800	333660	300000	264300
Miscellaneous expenses	43580	36700	32000	29844	24200	20300
Total	1547186	1440589	1517778	1426800	889700	745200

Items	Budgeted in 2019- 2020	Actual Expenses in 2019- 2020 till	Budgeted in 2018- 2019	Actual Expenses in 2018- 2019 till
Laboratory equipment	134000	125500	58000	37300
Software	63000	59584	197800	0
Laboratory consumables	258000	234000	206000	276800
Maintenance and spares	313000	291500	253000	244000
R&D	50000	45400	24200	20400
Training and Travel	268000	235700	145000	284000
Miscellaneous expenses	14300	12300	23500	39500
Total	1100300	1003984	907500	902000

10.3.1 Adequacy of budget allocation**(10)**

During the assessment years, the institute allocated an adequate budget. Budget requirements under 'recurring' and 'non-recurring' heads are collected from all the departments and sanctions before the commencement of the financial year. Allocations are made as per the availability of funds. Spending is monitored by the accounts section. The institution carefully monitors the expenses so that the necessities are met without affecting the smooth working of the institution. The management has been very efficient in doing this over the past several years.

10.3.1 Adequate budget allocation E & TC Department

Sr. No	Assessment Year	Allocated Budget	Adequate/ Non-Adequate
1	2022-23	1560859	Adequate
2	2021-22	1522402	Adequate
3	2020-21	896000	Adequate
4	2019-20	1126300	Adequate
5	2018-19	962500	Adequate

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 E & TC Department

Sr. No	Assessment Year	Allocated Budget	Utilized Budget	Utilized Percentage
1	2022-23	1560859	1452697	93.07
2	2021-22	1522402	1432921	94.12
3	2020-21	896000	747630	83.44
4	2019-20	1126300	1028584	91.32
5	2018-19	962500	920600	95.65

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.

Table B 10.4.1.a Summary of Books and Journals


Sr. No	Branch	Titles	Volumes	National Journals	International 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.b Purchase records of E-Resources

Year of Purchase	Particulars
2022-23	DELNET
2021-22	DELNET
2020-21	DELNET
2019-20	DELNET
2018-19	DELNET



Dr. Sangeeta Kaul
Director



DELNET
Developing Library Network
J.N.U. Campus, Nelson Mandela Road
Vasant Kunj, New Delhi 110070, India
Tel: 91-11-26742222, 26741266
91-9810329992 (Mobile)
E-mail: sangs@delnet.ren.nic.in,
sangskaul2003@yahoo.co.in
Web: www.delnet.in

DELNET/IM-6724/mh/AGCE/MEM/2023 March 10, 2023

Sub: DELNET Membership Renewal

Dear Mrs. Yewale,

We acknowledge with thanks the receipt of ₹ 13,570 (₹ Thirteen Thousand Five Hundred Seventy only) received through NEFT dated 14.2.2023 made towards the DELNET Annual Institutional Membership Fee for the period 20.2.2023 to 19.2.2024. The receipt no. 73334 dated 25.2.2023 is enclosed for the office records.

You are requested to access DELNET databases through the World Wide Web using the following procedure:

Web Address: <http://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	: mhagces
Password	: agces6724

Kindly note your Inter Library Loan (ILL for Books) Password is "mhagceslib" to be used while registering a request. You are also welcome to send us the bibliographical references at sangs@delnet.ren.nic.in, sangskaul2003@yahoo.co.in for the resources needed by you. We will try our best to locate these resources. We would like to inform you that DELNET has launched WEBVIEW Youtube channel which contains a large number of video recordings of Webinars organised by DELNET including sessions on DELNET resources and services. The link is available at the Discovery Portal. We would further like to inform you that Usage Report can be generated through "USAGE STATISTICS" link which appears at the top side of the landing page of the discovery portal. Kindly use the password as 6724***1992 to download the pdf, containing usage report of your institution.

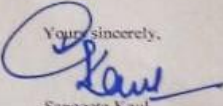
I would like to mention that DELNET provides access to more than three crore catalogue records of books, journals, articles, etc. through Discovery Portal and also more than one crore and fifty lakh full-text e-books, e-journals & e-articles through Knowledge Gainer Portal. We are pleased to inform you that DELNET has also recently launched ViSiOn Portal which contains Video Recordings of Lectures on varied subjects. We request you to kindly contribute the video lectures of the Faculty Members of your Institution. Kindly contact us for further assistance. DELNET also provides Delplus software free of charge for library automation purpose. DELNET Guest House facility at New Delhi can also be availed by member-libraries on payment basis.

We would also like to mention that DELNET offers DrillBit software for plagiarism detection for an annual subscription of Rs 48,000 (inclusive of GST) for 300 documents checking.

I would also like to inform you that DELNET shall be glad to organise a one hour webinar on DELNET Networked Resources and Services at a mutually convenient date and time for the students, faculty, researchers and scholars of "Arvind Gavali College of Engineering, Dist. Satara, Maharashtra". It will help in the effective utilisation of DELNET resources and services.

I am enclosing a poster on DELNET and a Certificate of Membership. Please kindly let us know if you wish to get any books on ILL or the journal articles.

With kind regards,

Yours sincerely,

Sangeeta Kaul

Mrs. Yewale Vaishali Chandrakant
Librarian
Arvind Gavali College of Engineering
At. Panmalewadi, Post Varye, Dist. Satara-415015
Maharashtra

Encl: (1) Receipt no. 73334 dated 25.2.2023 of ₹ 13,570
(2) Tax Invoice
(3) DELNET Poster
(4) Certificate of Membership

Fig 10.4a DELNET e Resource subscription 2023-24

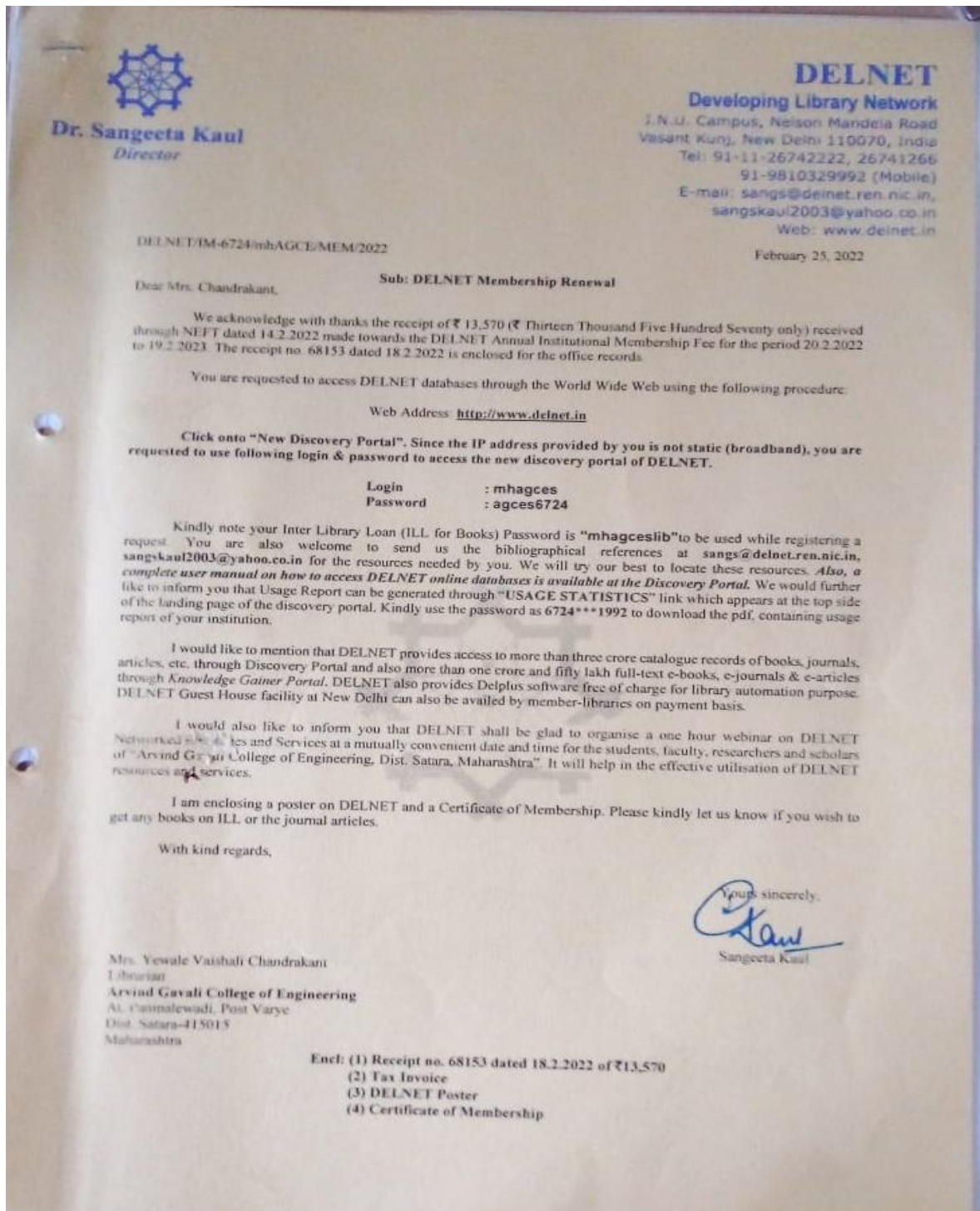


Fig 10.4b DELNET e Resource subscription 2022-23

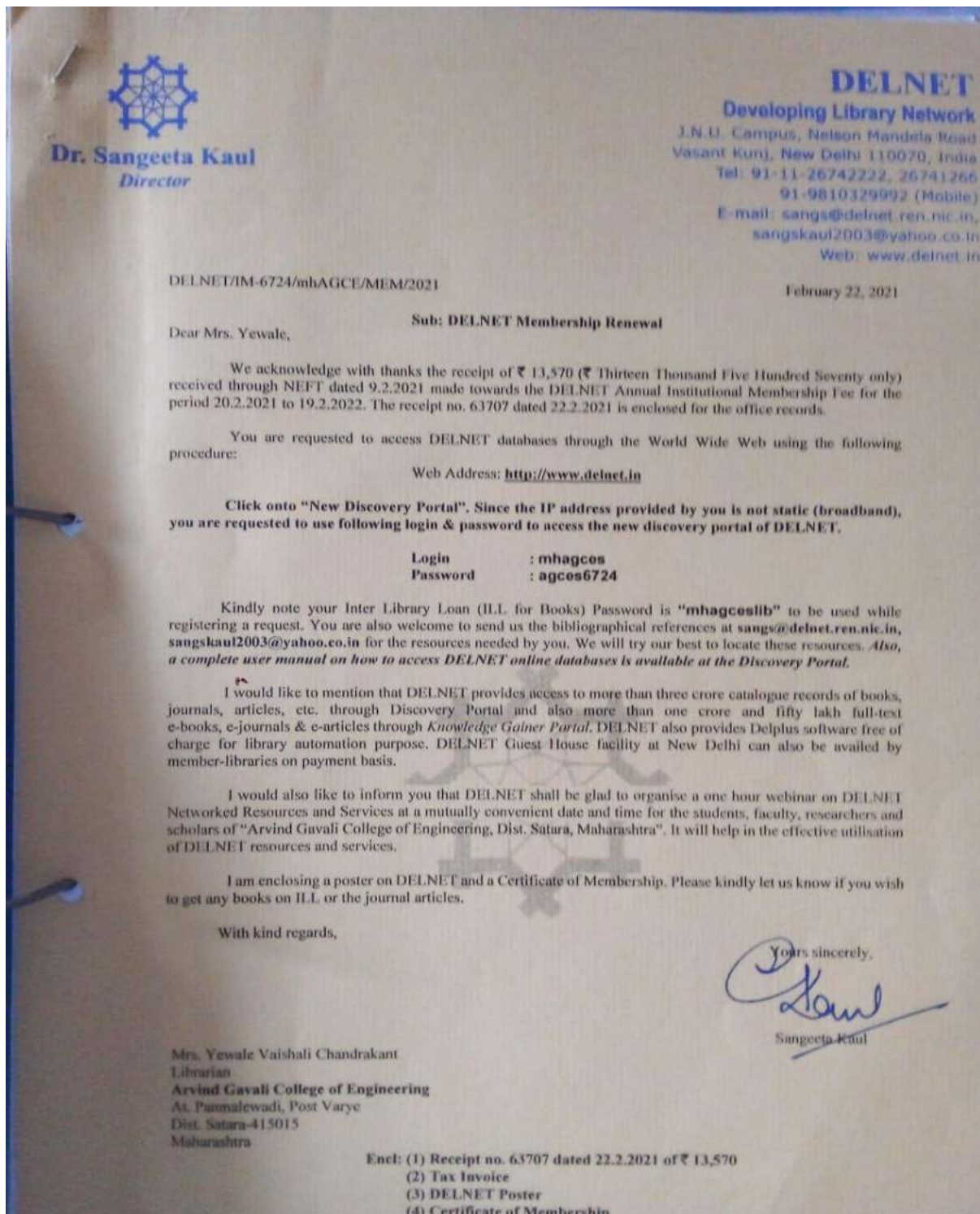




Fig 10.4c DELNET e Resource subscription 2021-22



Dr. Sangeeta Kaul
Network Manager



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sangskaul2003@yahoo.co.in
Web : www.delnet.nic.in

February 15, 2020

DELNET/IM-6724/mhAGCE/MEM/2020

Sub: DELNET Membership Renewal

Dear Mrs. Yewale,

We acknowledge with thanks the receipt of ₹ 13,570 (₹ Thirteen Thousand Five Hundred Seventy only) received through NEFT dated 12.02.2020 made towards the DELNET Annual Institutional Membership Fee for the period 20.02.2020 to 19.02.2021. The receipt no. 60007 dated 15.02.2020 is enclosed for the office records.

You are requested to access DELNET databases through the World Wide Web using the following procedure:

Web Address: <http://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.

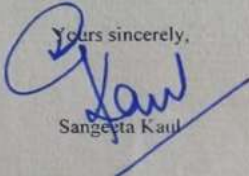
Login : mhagces
Password : agces6724

Kindly note your Inter Library Loan (ILL for Books) Password is "mhagceslib" to be used while registering a request. You are also welcome to send us the bibliographical references at sangs@delnet.ren.nic.in, sangskaul2003@yahoo.co.in for the resources needed by you. We will try our best to locate these resources. Also, a complete user manual on how to access DELNET online databases is available at the Discovery Portal.

I would like to mention that DELNET provides access to more than three crore catalogue records of books, journals, articles, etc. through Discovery Portal and also more than one crore full-text e-books, e-journals & e-articles through Knowledge Gainer Portal. DELNET also provides Delplus software free of charge for library automation purpose. DELNET Guest House facility at New Delhi can also be availed by member-libraries on payment basis.

I am enclosing a poster on DELNET and a Certificate of Membership. Please kindly let us know if you wish to get any books on ILL or the journal articles.

With kind regards,

Yours sincerely,

Sangeeta Kaul

Mrs. Yewale Vaishali Chandrakant
Librarian
Arvind Gavali College of Engineering
At. Panmalewadi, Post Varye
Dist. Satara-415015
Maharashtra

Encl: (1) Receipt no. 60007 dated 15.02.2020 of ₹ 13,570/-
(2) Tax Invoice
(3) DELNET Poster
(4) DELNET Brochure
(5) Certificate of Membership

Fig 10.4d DELNET e Resource subscription 2020-21

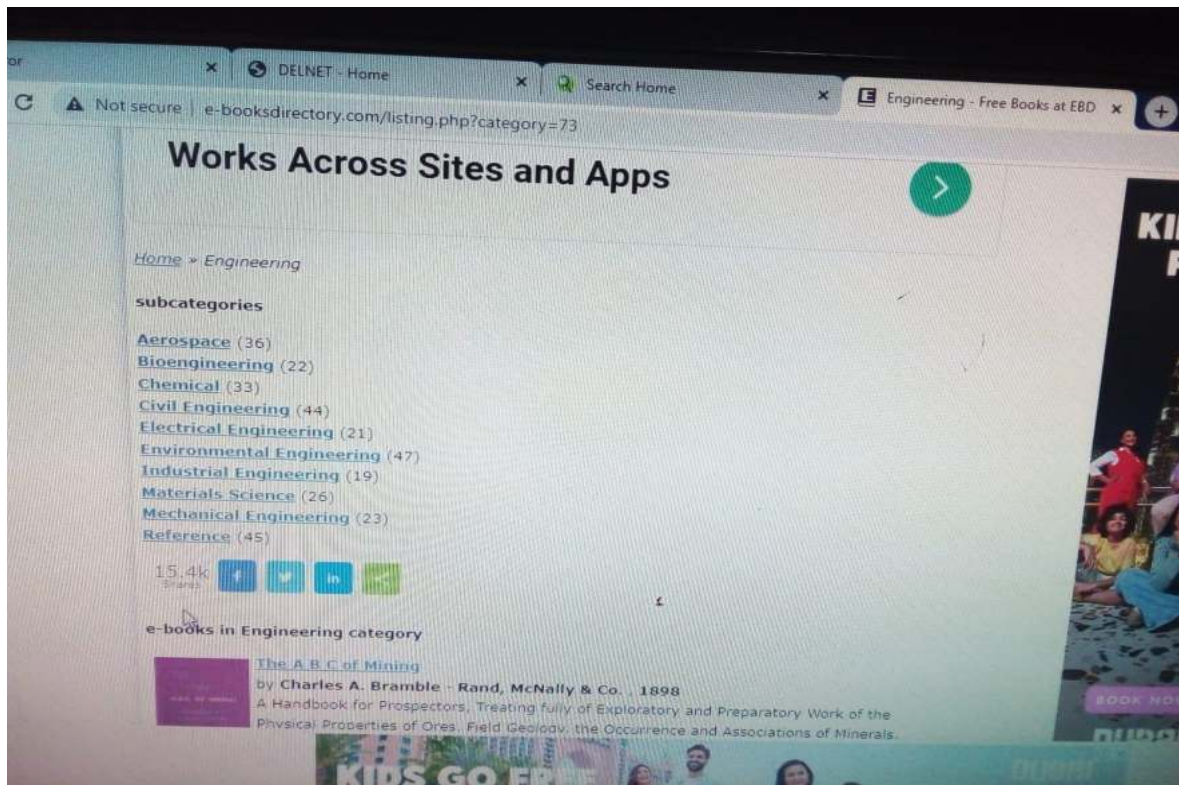


Fig 10.4e DELNET e Resource e Journal details



Fig 10.4f Students using DELNET e Resource e Journal details

Table 10.4.1. C Summary of E resources.

Sr. No.	Other E-Recourses& Particulars
1	DELNET
2	NDL
3	Spoken Tutorials
4	Swayam NPTEL Local Chapter

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.

Table B 10.4.1.d Library service details

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 On holiday	8.00 am to 7.30 pm.
Number of library staff	3

Number of library staff with degree in Library Management	2
Library Management Computerization for search, indexing, issue/return records	KOHA
Bar coding used	YES
Library additional services	<p>Internet, Journals, Technical Magazine, Conference Proceedings, Newspaper, Photocopy, Printing & Scanning Soft copies of University Question papers & Syllabus shared through email</p> <p>Extended reading room facility during exam period Orientation to newly admitted students.</p> <p>Online public access catalogue.</p>

C. Support to students for self- learning activities:

AGCE library helps its students in self-learning activities in following way:

1. 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)****Table 10.4.2 Internet information of institute**

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

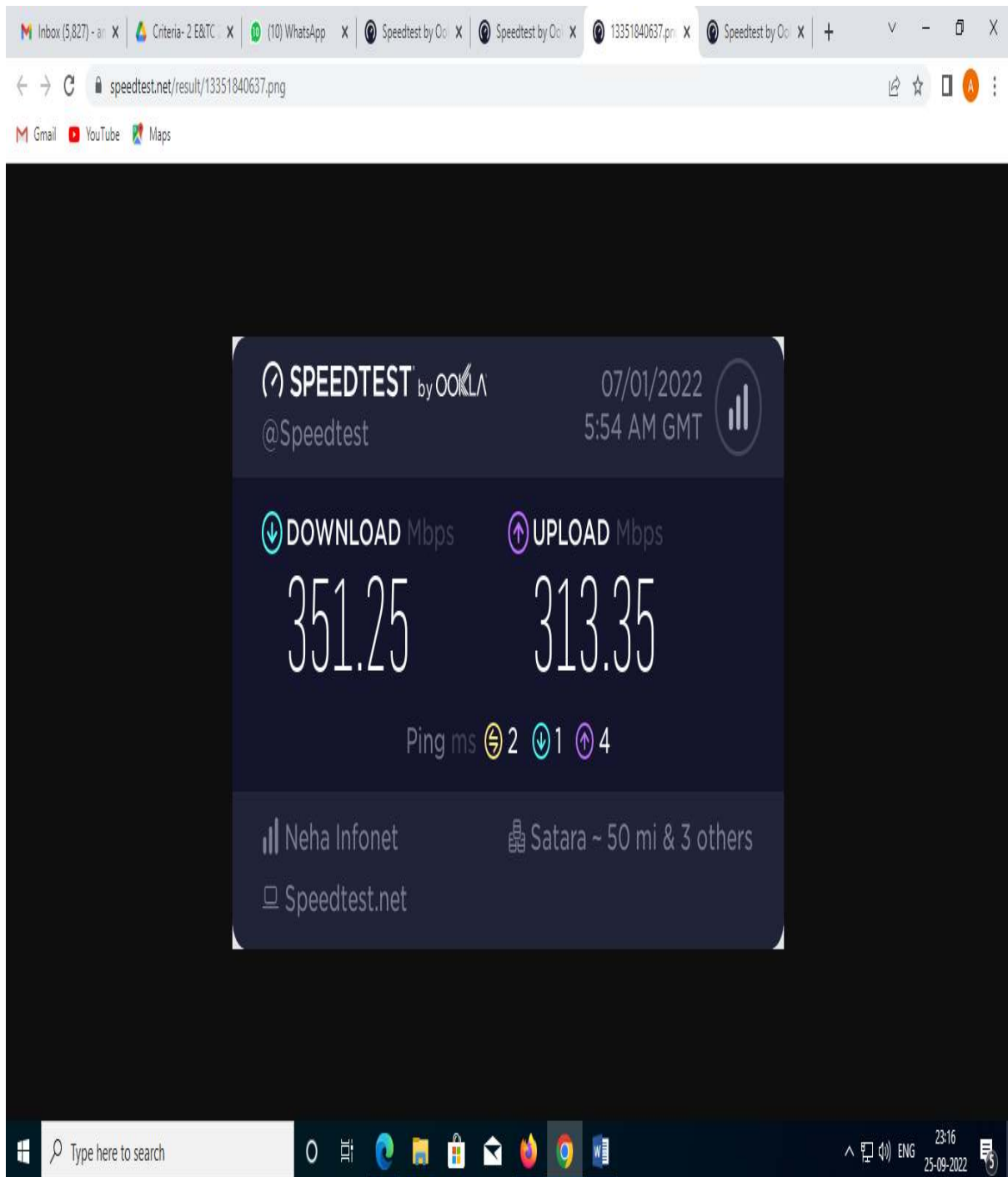


Fig 10.4.2.a Available band width: Speed Test 300 MBPS

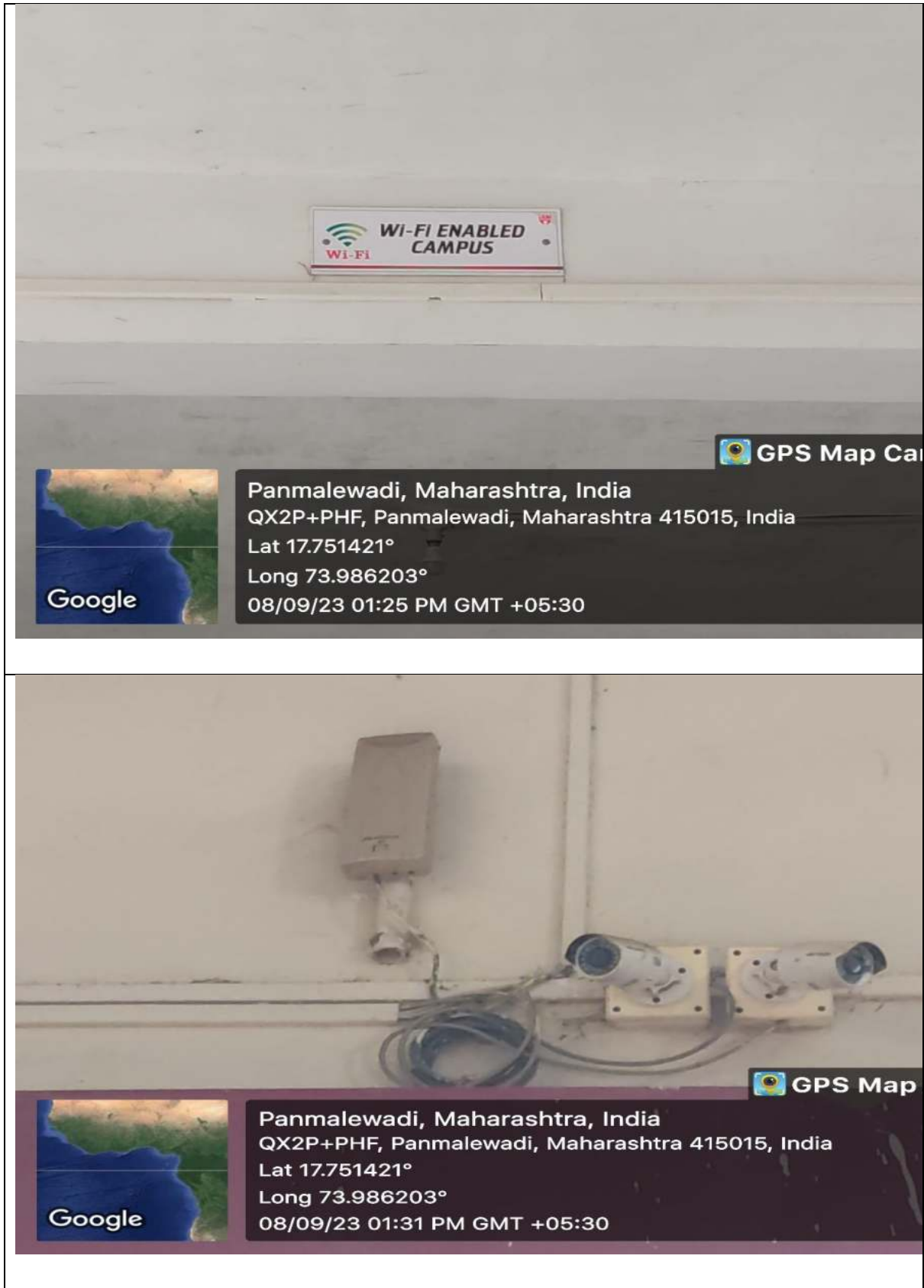


Fig 10.4.2.b Wi-fi facility available at institute

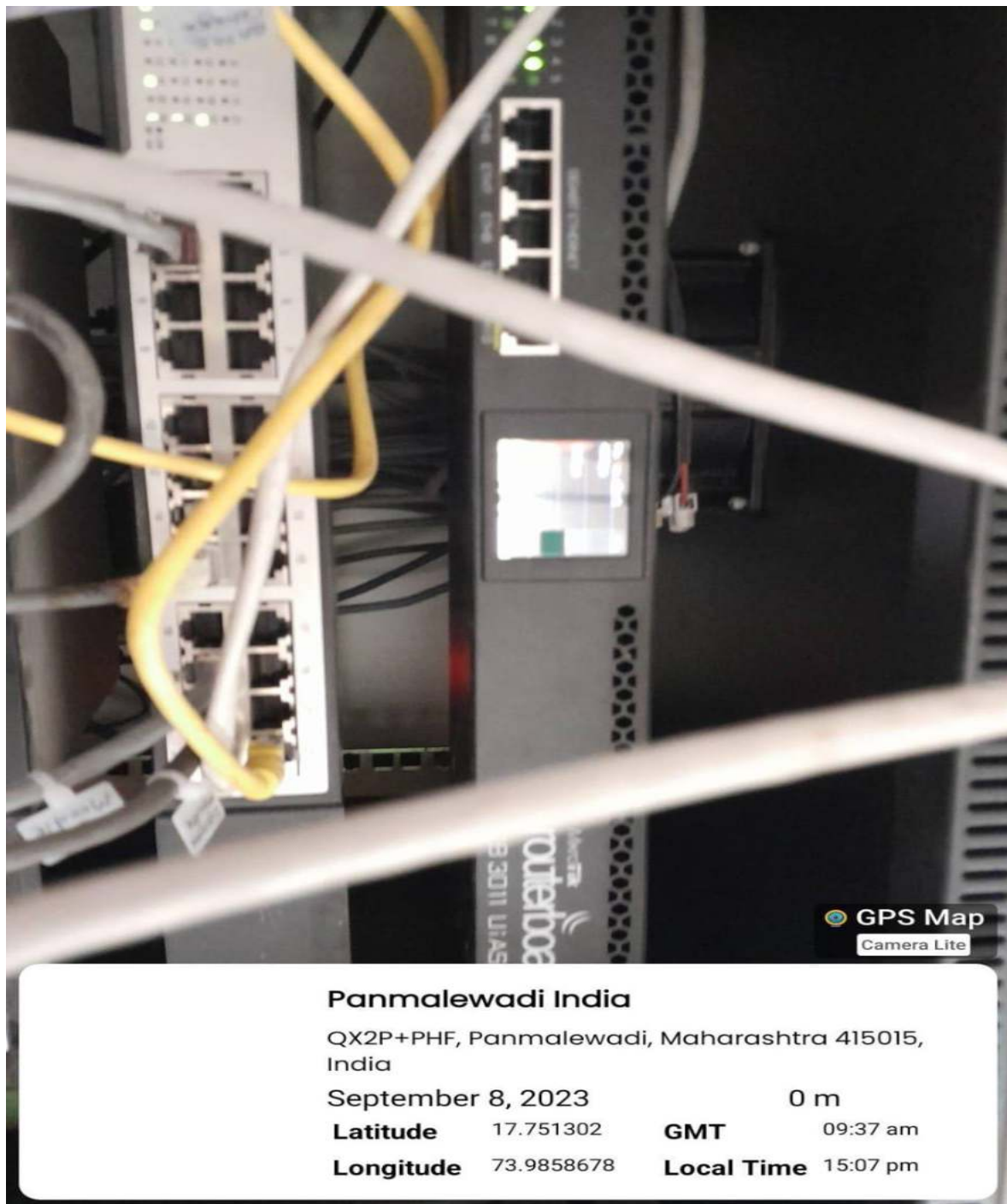


Fig 10.4.2.c Microtec layer 3 Manageable Switch