Vision, Mission and Program Educational	60
Objectives	
	,

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.

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

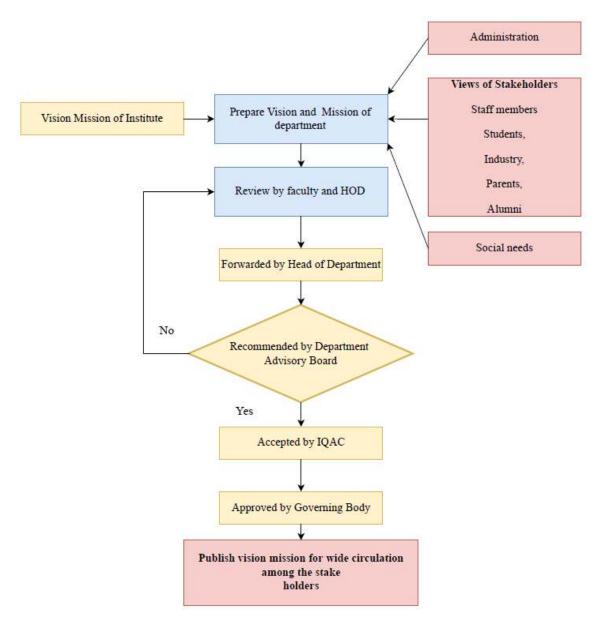


Figure 1.4 a: Process of defining the Vision & Mission of Department

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

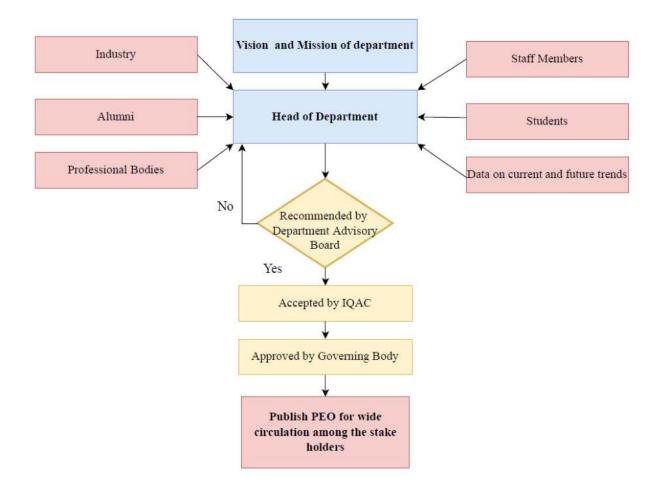


Figure 1.4 b: Process of defining PEOs of the program

- 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 rationaleOf the mapping)

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

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

Table 1.5: PEO and Mission Statement Consistency

The graduates will	be able	to develop			
awareness towards	ethical,	societal &	1	2	3
environmental issues.					

	M1	M2	M3	
		M2: To nurture	M3: To instill	
	M1: To enrich	skills among the	sensitivity	
PEO	academic	students helping	towards society	
Statements	competency by	them succeed	and respect for	
Statements	imparting	and progress in	the	
	quality	their personal	environment.	
	education	and professional		
		career.		
				M1substantially
PEO1: The				correlates with PEO1
graduates				as quality education
will be able				is based on the
to apply the				fundamental concept
basic				in Engineering and
concepts of				science where student
mathematics	3	2	1	solve the real-world
, sciences,	3	2	1	problems through
engineering				projects.
to solve				M2 moderately
industrial				correlates with PEO1
and societal				as M2 is strongly
problems				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.
				M1 moderately
				correlates with PEO2
PEO2: The				as it emphasizes on
graduates				enriching academic
will be able				competency however
to deal with				the PEO2 focuses on
complex real				applying technical
time	2	3	1	and soft skills for
problems by				solving real world
applying				problem.
technical				M2 substantially
and soft				correlates with PEO2
skills.				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
				M1 slightly correlates
				with PEO3 as it
				emphasizes on quality
PEO3: The				education however
graduates				the PEO3 focuses on
will be able				awareness of ethical,
to develop				societal &
awareness				environmental issues.
towards	1	2	3	M2 moderately
ethical,				correlates with PEO3
societal &				as it highlights the
environment				development of
al issues.				professional skills
				among the students to
				serve the society with
				ethical values.
				onnear variaes.

		M3 substantially
		correlates with PEO3
		as deals with
		inculcating ethical
		values, environmental
		and social
		responsibilities.

PEOs		Mission Component	t
	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	3	2	1
be able to apply the basic concepts of mathematics, sciences, engineering to solve industrial and societal problems.	PEO- Apply the basic conceptsM- Enrich academic competency	PEO- To solve industrial and societal problems M- To nurture skills	PEO- To solve industrial and societal problems M- To instill sensitivity towards society
PEO-2 The graduates will	2	3	1
be able to deal with complex real time problems by applying technical and soft skills.	PEO- Complex real time problemsM- Enrich academic competency	PEO- Applying technical and soft skills. M To nurture skills	PEO- To deal with complex real time problems M- To instill sensitivity towards society
PEO-3 The graduates will	1	2	3
be able to develop awareness towards	PEO- To develop awareness towards ethical issues	PEO- To develop awareness towards ethical issues	PEO- To develop awareness towards ethical, societal & environmental issues

ethical, societal & environmental issues	M- Imparting quality education.	M- Succeed and progress in their personal and professional career	M- To instill sensitivity towards society and respect for the environment		
PE	Os	Mission Co	omponent		
PEO-1 The graduates will basic concepts of math engineering to solve induproblems.	nematics, sciences,	M1 - To enrich academic of imparting quality education M2 - To nurture skills and them succeed and progress professional career.	n. ong the students helping		
		M3 - To instill sensitivity towards society and respect for the environment.			
PEO-2 The graduates will complex real time prob		M1 - To enrich academic competency by imparting quality education.			
technical and soft skills.		M2 - To nurture skills among the students helping them succeed and progress in their personal and professional career.			
		M3 - To instill sensitivity respect for the environmen	•		
PEO-3 The graduates will awareness towards eth	be able to develop ical, societal &	M1 - To enrich academic of imparting quality education			
environmental issues		M2 - To nurture skills and them succeed and progress professional career.			
		M3 - To instill sensitivity respect for the environmen	•		

CRITERION	Program Curriculum and Teaching –	120
02	Learning Processes	

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.

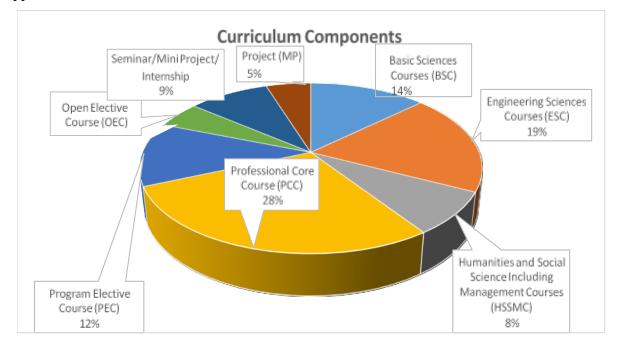




Table 2.1.1a mapping of curriculum components with PO/ PSOs

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

Table B 2.1.1 b University Curriculum Structure

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

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Sr.	Course	Course Title	Weekly Teaching hrs		Evaluation Scheme			Credit	
No.	Code		L	Т	Р	CA	MSE	ESE	
1	Mandatory	Induction Program	nduction Program 3 weeks duration in the beginning semester					g of the	
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	2	2	Audit
8	BTBS107L	Engineering Physics Lab	123	-	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

Semester - I Group A

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Semester - II Group B

Sr.	Course	Course Title		Weekl ching		F	Evaluati Schem		Credit
No.	Code		L	Т	Р	CA	MSE	ESE	
1	BTBS201	Engineering Mathematics - II	3	1	-	20	20	60	4
2	BTBS202	Engineering Chemistry	3	1	-	20	20	60	4
3	BTES203	Engineering Mechanics	2	1	-	20	20	60	3
4	BTES204	Computer Programming in C	2	-	-	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

Dr. Babasaheb Ambedkar Technological University, Lonere.

Sr.	Course Code	Course Title	Hou	rs Per V	Veek	Evalu	ation Sci	heme	Total	Credits
No.	course coue	course rate	L	Т	Р	MSE	СА	ESE	Marks	Cittails
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

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

Dr. Babasaheb Ambedkar Technological University, Lonere.

			Hour	rs Per W	/eek	Evalu	ation Scl	neme	Total	
Sr. No	Course Code	Course Title	L	Т	Р	MSE	CA	ESE	Marks	Credits
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

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

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	-	1* (To be evaluated in V th Semester)
		Total	11	05	12	130	430	540	1100	22

Dr. Babasaheb Ambedkar Technological University, Lonere.

		Semest V	er							
Course	Course Code	Course Title	Teac	hing Sch	eme	E	valuati	on Sch	eme	
Category			L	Т	Р	CA	MSE	ESE	Total	Credi
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

		Semest VI	er							
Course	Course Code	Course Title	Teac	hing Sch	eme	E	valuati	on Sch	eme	C N
Category			L	Т	Р	CA	MSE	ESE	Total	Credit
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 (evalu at ion 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

Sr.	Course	Type of	Course Title	Hou We	urs F ek	er.	Evalu Schem			Total	
No.	Code	Course		L	Τ	Р	MSE	CA	ESE	Marks	Credits
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	β	0	0	20	20	60	100	2
6	BTETL706	Program Elect	tive 3 Lab	0	0	2		30	20	50	1
7	BTETL707	Program Elect	tive 4 Lab	0	0	2		30	20	50	1
8	BTETL708	Program Elect	tive 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

B. Tech (Electronics & Telecommunication Engineering)

Proposed	Curriculum	for Semester	VII	[Final Year]
roposed	Curriculum	IOI SCHICSTEI	1 11	[x mm x cm]

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

Course	Type of Course	Course	Tea	eekly aching heme		Ev	aluatio	on Sche	me	Credit
Code		Title	L	Τ	P	MSE	CA	ESE	Total	s
 Comp Proces 	uter Vision a	č	3	-	1	20*	20*	60*	100	3
 Indust Crypto Digita # Student 	 Industrial Automation and Control Cryptography and Network Security 			-	-	20*	20*	60*	100	3
BTMEP803	Project Par Internship		-		30	-		100	150	15
		Total						220	350	21

B. Tech (Electronics & Telecommunication Engineering)

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

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

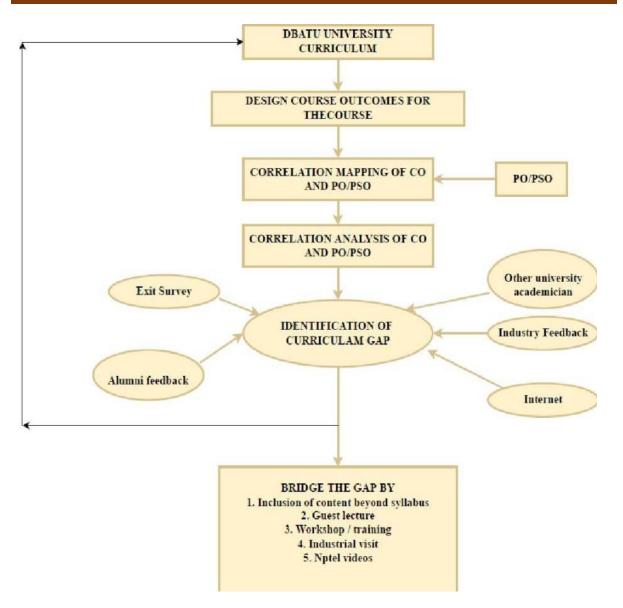


Fig. 2.1.1 b Process to Identify Curriculum Gaps

- 1. The University publishes the curriculum annually in June if changed or updated. The curriculum provides the syllabus of each course.
- 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

- 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.

Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
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		
BIHMI09L		Y				Y	Y		Y		Y		Y		<u></u>

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

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 Programming Lab	Y	Y	Y						Y	Y			Y	
BTBS208L	Engineering Chemistry Lab	Y	Y				Y	Y		Y					
BTES209L	Engineering Mechanics Lab	Y	Y	Y			Y	Y		Y	Y				
BTES210P	Mini Project	Y	Y			Y	Y	Y	Y	Y	Y			Y	Y
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	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

Subject Code	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
BTEXL309	Network Analysis Lab	Y	Y	Y		Y				Y	Y			Y	Y
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 l	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

	Field Training /Internship/Industrial Training (minimum of 4														Y
BTEXF412 (Internship – 2)	weeks which can be completed partially in the third semester and fourth semester or at one time).	Y	Y			Y				Y	Y	Y	Y		
T.Y. Btech I	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	
BTETOE60 4	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 P	art-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
BTETOE60 4	Computer Network	Y	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

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				r	1	1	T		T		1				
BTHM605	Employability and Skill	Y	Y	Y		Y		Y	Y		Y		Y		Y
	Development														
BTETL606	Digital Communication Lab & Professional Elective Course 3 Lab	Y					Y		Y	Y	Y	Y	Y	Y	
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
	Field Training / Internship/Industrial Training														Y
BTETP608	(minimum of 4 weeks which can be	Y	Y	Y	Y	Y			Y	Y	Y	Y			
DIEIF008	completed partially in third	1	1	I	I	I			I	I	I	I			
	semester and fourth semester or in														
	at one time).														
Final Year B	B.Tech (Sem- VII)		Γ	1	1	T	I		I	Γ	Γ	Ι	Γ	Γ	Γ
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

AGCE Satara

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 B	Fech (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.

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

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

Following are the curriculum gap identified:

Academic Year 2022-23

Sr. No	Relevant Course/Area	Curriculum Gap	Relevance to PO &
		Identified	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

Table B.2.1.1 e Identified Curricular Gaps

Academic Year 2021-22

Sr. No	Relevant Course/Area	Curriculum Gap	Relevance to PO &
		Identified	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 on(5G to 7G)	PO1 PO2 PO12
4	Control System Engineering	Roll of control system & instrumentation engineering	PO1 PO8 PO9 PO11

Table B.2.1.1 f Identified Curricular Gaps

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
		Identified	
1	Numerical Methods and Computer Programming	C++ programming	PO4 PSO2
			PO1
			PO2
2	Digital Signal Processing	Signaling Concept	PO3
			PSO2

3	Computer Network & Cloud Computing	Cloud Computing	PO1 PO5 PO9 PSO1
---	---------------------------------------	-----------------	---------------------------

Academic Year 2019-2020

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

Table B.2.1.1 h Identified Curricular Gaps

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

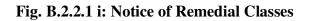
Departments have a proper mechanism to support the weak-performing student as well as encourage bright students. Identification of weak and bright students is carried out by considering their previous academic performance and feedback from Guardian Faculty members. For every batch of 20 students, one 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.



SWOC A	nalysis	NOVEMBER / Academic Calendar , Term - I
1) Leadership 2) Flexibility 3) Creativity 4) Typingskill 5) Time manage ment skill	Weakness 1) In Secure 2) ho able 40 say h6. 3) 4)	suggestion 1) gas Pakage detection Gad 2) Air pollution monatoring 3) Ardivro based Automutic 4) password type from the polstance measurements yet 5) object Recognition system from
Opportunities 1) more formilier with 2) english 3) Happy to 4) with 5) Plane a head	Challenges 1). Good j. S. D. i.b. 2). Company 3). Clear P. H.D 4). Clear B. Tech 5).	1 ⁴⁴ Saturday Duisit at Rachang Exihibition-Cator 2) Technosty solar system-Josty 3 rd Saturday

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

	SAMARTH EDUCATIONAL TRUST ARVIND GAVALI COLLEGE OF ENGINEERING, SATARA NAAG Accorded				
	Remedial Classes For FYBTECH AY 2022-23				
د د د	 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. 				
		M			



Dr.Babasaheb Ambedkar Technological University, Lonere Arvind Gavali College of Engineering, Satara REMEDIAL CLASSES AY 2022-2023 Time Table (FYBtech)								
Sr. N	Date	Time	Department					
1	16-11-2022	1:10-2:2:10	orpariment	Class	Subject & Code	Remedial Class	Name of Faculty	
2	16-11-2022	3:30-4:30	-		ENGG, MATHS-I (BTBS 101)	Class Rm No.102	Mrs.Kastere A.D.	
3	23-11-2022	3:30-4:10	-		ENGG. MATHS-1 (BTBS 101)	Class Rm No. 102	Mrs.Kastare A.D.	
4	25-11-2022	3:30-4:30	-		UNGG PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S.	
3	30-11-2022	3:38-4:30			ENGG JHIY (BTBS 102)	Class Rm, No. 102	Mr.Kirdat N.S.	
6.	92-12-2022	1:10-2:10			ENGG.GRAPHICS (BTES101)	Class Rm No.102	Mr. Turnhe P.M.	
9	07-12-2022	3:30-4:30	-		ENGG.GRAPHICS (BTES103)	Class Rrs.No.102	Mr. Tambe P.M.	
10	09-12-2022	2:50-3:10			COMM SKILL (BTHM 104)	Class Res No.102	Dr.Juhav N.R.	
11	14-12-2072	1:30-2:2:10			COMM.SKILL (BTHM 104)	Class Rm.No.102	Dr.Jadiav N.R.	
12	14-12-2022	3:30-4:30			ENGO, MATHS-1 (BTBS 101)	Clina Rm No.102	Mrs.Kasture A.D.	
13	21-12-2022	3:30-4:30			ENGG MATHS-I (BTBS 101)	Class Bm.No.162	Mrs.Kasture A.D.	
14	23-12-2022	3:30-4:30		11	ENGG .PHY (BTBS 102)	Class Rm No. 102	Mr.Kirdat N.S.	
15	28-12-2022	3:30-4:30			ENGLI PHY (BTBS 107)	Class Bro No.102	Mr.Kindat N.S.	
16	30-12-2022	1:10-2:10		FYBTech(B)	ENGLORAPHICS (BTES103)	Class Rm.No.102	Mr.Tambe P.M.	
19	64-01-2023	3:10-4:30	Core Sci & Enge FY		ENGG GRAPHICS (BTES101)	Class Jun No. 102	Mr.Tambe P.M.	
20	06-01-2023	2:10-3:10			COMM SKILL (BTHM 104)	Class Rm No.102	Dr.Jadhay N.R.	
21	11-01-2023	1:10-2:2:10			COMM.SKILL (IITHM 104)	Class Rm.No.102	Dr.Jodhav N.R.	
22	11-01-2028	3:30-4:30			ENGG, MATHS-I (BTBS 101)	Class Rm No.102	Mrt.Kasture A.D.	
23	18-01-2023	3:30-4:30			ENGG, MATHS-I (BTBS 191)	Class Rm No. 102	Mrs.Kashare A.D.	
24	20-01-2023	3:30-4:30			ENGG (PHY (BTBS 162)	Class Rin No. 102	Mr. Kirdat N.S.	
25	25-01-2021	3:30-4:30			ENGG PHY (BTBS 102)	Class Rm No.102	Mr.Kindat N.S.	
Contraction of the local division of the loc	27-01-2023	1:10-2:10		-	ENGG ORAPHICS (BTES100)	Class Bm No.102	Mr. Tanise P.M.	
the second s	01-02-2023	3:30-4:50			ENCIG.GRAPHICS (BTES103)	Class Rm.Nn 102	Mr. Tambe P.M.	
-	03-02-2023	2:10-3:10			COMM.SKILL (BTHM 104)	Class Bm No.102	Dr.Jadiav N.R.	
	and the second se	1:10-2:2:10		1	COMM.SKILL (BTHM 104)	Class Ibn No.162	Dr. Jadhay N.R.	
0	08-02-2023	Statistics in succession in which the			ENOG. MATHS-1 (BTBS 101)	Class Rm, No. 102	Mrs.Kasture A.D.	
The second se	15-02-2023	3:30-4:30			ENGG. MATHS-J (BTHS 101)	Class Rm.No.102	Mis Kashar A.D.	
-	and the second se	3:30-4:30		1	ENGG .PHY (BTBS 102)	Class Rm.No.102	Mrs.Kastuse A.D.	
2 17-02-2023	1002025	3:30-4:30			ENGG .PHY (BTBS 102)	Class Rm.No.102	Mr.Kirdat N.S. Mr.Kirdat N.S.	
R	P.			A			AN/	

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 made available to bight students.

This enables the bright students:

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

SWA	YAM-N	PTEL Local Ch	napter			Home 1	Downloads	Fee wai	iver - Bu	ik Payment	Mentors -	NPTEL stars	Logout
					Jul-Dec 20	20 Enrol	lment o	letails					
Excel 4 S.ao	Print ‡	÷ Email Id	Course : Id	CourseName	College Roll ‡ Number	Mobile () Number	¢ City	¢ Profession	Qualification	Degree	Department	Search: electronicaj Study () () Year Motivation	Timeli
	SHINDE NISHA KALIDAS	001nishashinde@gmail.com	aoc20- ee95	Introduction to Embedded System Design		-91 96652 31193	SATARA	student	bachelor4yz	be	Electronics and Communication Engineering		Jul-Dec 2020
	Aryan Bhoite	aryan bhoite 50 ĝigmail com	noc20- ee70	Digital Circuits	1965451372347	+91 93917 61415	SATARA	student	bachelor4yr	btech	Electronics and Communication Engineering	4	Jul-Dec 2020
)	Tejarvi Shivaji Bandgar	bandgar tejarvi2000 (Egmail.com	noc20- ee70	Digital Cocuts		+91 95037 54112	SATARA	student	diploma	be	Electronics Engineering	2	Jul-Dec 2020
1	Varsha Chavan	chavanvarsha3339@gmail.com	noc20- ee90	Control systems		+91 91567 63915	SATARA	student	bachelor.Jyt	btech	Electronics and Communication Engineering	2	Jul-Dec 2020



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

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

Table B.2.2.1a: Best outgoing student award

2.2.3. C. Process for project monitoring and evaluation

(5)

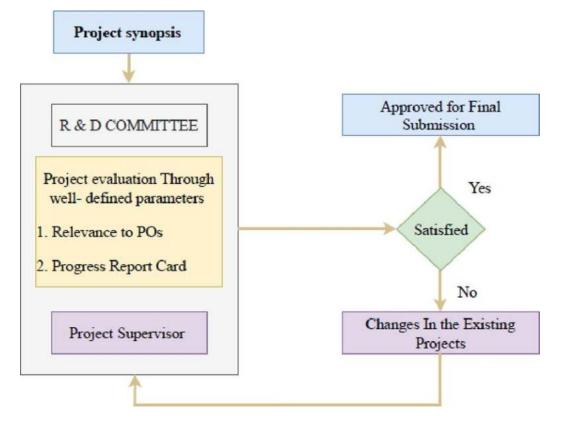


Fig B.2.2.3.c: Project Assessment Mechanism

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:

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
		CO1,CO2,
4	Synopsis	CO6
5	Objectives and Methodology of the Proposed Work	CO1,CO2
6	Planning of the Project Work and Team Structure	CO4
7	Presentation	CO6
8	Technical Knowledge and Awareness Related to the Project	CO1,CO2
9	Effectiveness of Communication	CO6
10	Working Within a Team	CO4

Table B.2.2.3 f Project Evaluation Scheme

All the above-mentioned performance indicators are evaluated on a

scale of 1-5. Excellent: 5

Very Good: 4

Good: 3

Satisfactory: 2

Not Satisfactory: 1

Phase 2:

Table B.2.2.3	g Project	Evaluation	Scheme
	5	Liuluunon	Schenic

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

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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

Depar	of the Project Guide: Dr. Mircykan 4					
Projec	The Gerture Recognition Base	d Vistua	Moure	St Keybe	m.Rd.	
Domai	a: -Automation.		1 1 10-1-	4 . 0	in the second	
Sr. N	Perchaster Collect	T	GR	OUP MEMBERS	NAME	
ar. n	6. Evaluation Criteria	STUDENT-1	STUDENT-2	STUDENT-J	STUDENT-4	STUDENT
1	Technical knowledge on Proposed work	4	ų	8	E.	
2	Literature Review	5	- 4	3	S	
3	Design Substions of Suggested project	5	н	3	S	
4	Analysis of the project	5	8	3	5	
3	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	3	5	3	4	
9	Planning of the Project Work and Team Structure	8	- 3-	3-	4	
10	Effectiveness of Communication	- 4	3	1 2	4	-
11	Project Management and Finance	2		2	0	
12	Preparation on situation of technological change	2	- 3	0	3	
13	Synapols Industry Sponsored/Research/Peer Review Paper Based	6.	2	2	Q	
14		4	4	1	0	
15	Project Report Project Implementation and Testing	u	u	2	3	
16		4	5	2	4	
17	Project Demonstration Participation in Competition	5	5	4.	u	
18	Conclusion and Future scope	5	3	4	4	
micrissis met	References	5	4	1	2	
20	Total	80	74	59	79	
-	Nate*	1	Batter		stalle	,
	The grading should be:		Contraction of the second		34	
	Excellent: 5, Nery Good: 4 Good: 3, Satisfactory:	2. Net Satisf	actory: 1			
1		in the second			I Pinto	nt Name & S
l.	- Structure is dong a structure to the	udent Name & Si	gn 4. Stude	ent Nume & Sigt	n 5. 51000	BI NAME & A
li.	away samplet Kodom Rufuja Kee	tom) huhek	esh Pr	alke uki	ineVi.	
	free P. secult P. 11 P. A. Lie Lead 1	1 1000.000			WORKS CONTRACT	

Fig B.2.2.3.d Evaluation Record

2.2.3. D. 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.

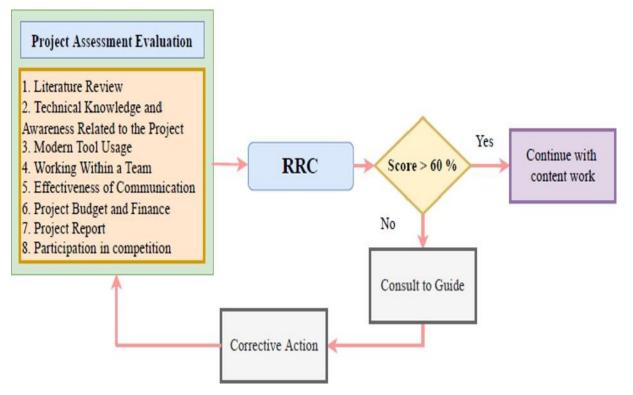


Fig B.2.2.3.e: Student Performance Evaluation Mechanism

CRITERION	Course Outcomes and Program Outcomes	120
03		

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

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

A. PROGRAM OUTCOMES (POs)

The students of 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)

Electror	nics 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.

3.1.3 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 Engineering (BTES105)	2.33	1	2.5	1		1.5	3	2		2	1	
	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		

	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	
SY	Basic Human Rights (BTHM3401)			3		2			1	2	2		
SEM III	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

	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		
SY SEM IV	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
	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	
TY SEM V	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							

		T	T	1	1	T	1	1	1	0	1	1	
	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
	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
TY SEM	Android Programming (BTETPE604F)	2.25	2	1.5	2	1.33							1
VI	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

		1	1	1	1	1	1	1	1	[1		1
	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
	Digital Communication (BTETC701)	2.25	1	1	2.33	2.33						2	
	Wireless Sensor Network (BTETC702)	2		2	2	2.5				3		2.5	
	Embedded System Design (BTETPE703)	2	2	1.5	2	3				1			2
BTE CH	Mechatronics (BTETPE704)	2.0		2.0	2.0	2.5				3.0		2.5	
SEM VII	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	Introduction to Internet of Things (BTETPE801A)	1	2	2	1	2						1	
SEM VIII	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)		
	Engineering Mathematics- II(BTBS201)	1.0	1.0
	Engineering Chemistry(BTBS202)		
	Engineering Mechanics(BTES203)		
	Computer Programming in C(BTES204)	1.0	
	Workshop Practices(BTES205)		
FY SEM II	Basic Electrical and Electronics Engineering(BTES206)	1.0	1.0
	Computer Programminging Lab(BTES207L)	1.0	
	Engineering Chemistry Lab(BTBS208L)		
	Engineering Mechanics Lab(BTES209L)		
	Mini Project(BTES210P)	1.0	1.0
	Engineering Mathematics-III (BTBSC301)	2.0	1.0
	Analog Circuits (BTBSC302)	1.5	1.5
SY-	Electronic Devices & Circuits (BTBSC303)	1.0	1.0
SEMIII	Network Analysis (BTBSC304)	2.0	3.0
	Digital Logic Design (BTBSC305)	2.3	3.0
	Basic Human Rights (BTHM3401)	2.0	1.0

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	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
	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
SY- SEM	Microprocessor (BTEXC403)	3.0	1.0
IV	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
	Microprocessor Lab (BTEXL409)	1.5	1.8
	Signals and Systems Lab (BTEXL410)	2.0	1.3
TY- SEM V	Soft-Skill Development (BTHML411)	1.0	
	Field Training/ Internship/Industrial Training(BTEXF412)	1.5	2.5
	Electromagnetic Field Theory (BTEXC501)	2.3	2.0

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	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	2.0	
	(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
	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
TY- SEM VI	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

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Python Programming Lab (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
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
	Mini-project (BTETP610)Field Training/ Internship/ Industrial Training(BTETF611)Digital Communication(BTETC701)Wireless Sensor NetworkEmbedded System Design (BTETPE703)Mechatronics (BTETPE704)Financial Management(BTHM705)Satellite Communication Lab (BTETL706)Embedded System Design Lab(BTETL707)Mechatronics Lab(BTETL708)Project Part I (BTETP709)Field Training/ Internship/Industrial Training Evaluation (BTETF611)Introduction to Internet of Things	Mini-project (BTETP610)2.0Field Training/ Internship/ Industrial Training(BTETF611)1.5Digital Communication(BTETC701)2.0Wireless Sensor Network3.0Embedded System Design (BTETPE703)1.8Mechatronics (BTETPE704)3.0Financial Management(BTHM705)2.5Satellite Communication Lab (BTETL706)2.7Embedded System Design Lab(BTETL707)3.0Mechatronics Lab(BTETL708)2.7Project Part I (BTETP709)2.8Field Training/ Internship/Industrial Training Evaluation (BTETF611)2.3Introduction to Internet of Things2.3

(50)

3.2 Attainment of Course Outcomes

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

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

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

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

- 1. 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

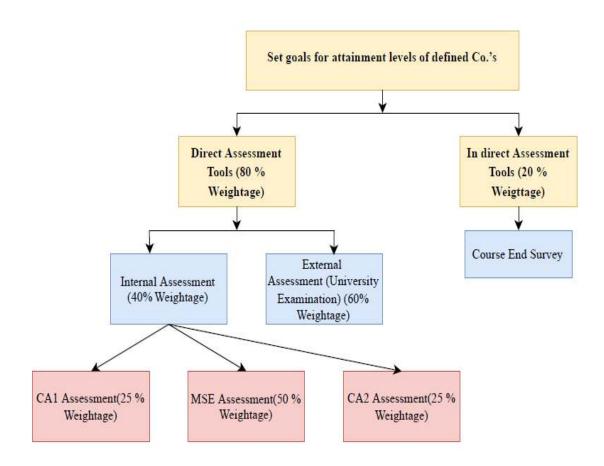


Fig1.Process of defining CO attainment Theory examination

AGCE Satara

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

Laboratory

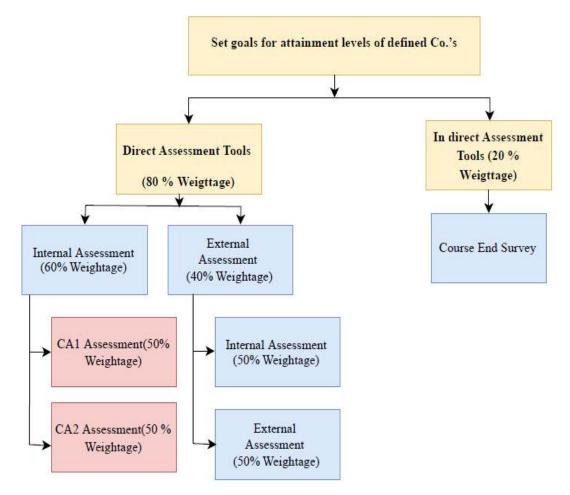


Fig 2. Process of defining CO attainment practical examination

AGCE Satara

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

Theory

- 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.	Assessment tools	Tool type	Time Span
No.			
1	Continuous Assessment Test1[CA1]		One test/semester
2	Mid Semester Examination [MSE]	Direct	One test/semester
3	Continuous Assessment Test 2 [CA2]	/ \\$5005511011	One/Semester
4	End Semester Examination [ESE]		One/Semester

Laboratory

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

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

All courses are categorized into 2 categories

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

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

3.2.2 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		1.1	3	2.90	1.8	Attained
C305.2	[CA1]/ [CA2]/ [ESE]	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	Assessment	Internal	University	Course		
Outcomes	Tools	Assessment Attainment	Result Attainment	Attainment	Target	Remark
C402.1		1.1	3	2.90	1.8	Attained
C402.2		1.15	3	2.95	1.8	Attained

C402.3	[CA1]/ [CA2]/	1.2	3	3.00	1.8	Attained
	[ESE]					
C402.4		1.2	3	2.90	1.8	Attained

Course Outcome

Attainment: 2.96

Course Na	me: Control Syste	m Engineering								
Year : 202	Year : 2021-22									
Course Co	de: BTEXC502					Sem-V				
Course	Assessment	Internal	University	Course						
Outcome s	Tools	Assessment Attainment	Result Attainment	Attainment	Target	Remark				
BTEXC5 02.1	[CA1]/ [CA2]/	1.2	2	2.40	1.9	Attained				
C504.2	[ESE]	1.2	2	2.40	1.9	Attained				
C504.3		1.2	2	2.40	1.9	Attained				
C504.4	<u> </u>	1	2	2.20	1.9	Attained				

Course Outcome Attainment: 2.35

Course Name: Antenna and wave propagation

Year : 2021-22

Course Code:BTETC601

Sem-VI

Course	Assessment	Internal	University	Course		
Outcomes	Tools	Assessment Attainment	Result Attainment	Attainment	Target	Remark
C603.1		1.2	3	3.00	1.9	Attained
C603.2		1.15	3	2.95	1.9	Attained

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C603.3	[CA1]/ [CA2]/ [ESE]	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		1.2	2	2.40	2.1	Attained
C704B.2	[CA1]/ [CA2]/ [ESE]	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	Assessment	Internal	University	Course		
Outcomes	Tools	Assessment Attainment	Result Attainment	Attainment	Target	Remark
E801A .1		1.2	3	3.00	2.1	Attained
E801A .2		1.15	3	2.95	2.1	Attained

E801A .3	[CA1]/ [CA2]/	1.2	3	2.95	2.1	Attained
E801A.4	[ESE]	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	2.88	2.89	2.81	2.81	2.85
	& Circuits	Attained	Attained	Attained	Attained	Attained
	Network Analysis	2.70	2.69	2.91	2.75	2.76
BTEXC304		Attained	Attained	Attained	Attained	Attained
	Digital Logic	2.68	2.75	2.93	2.83	2.8
BTEXC305	Design	Attained	Attained	Attained	Attained	Attained
BTHM3401	Basic Human	2.95	2.85	2.85	2.12	2.90
DITING IOI	Dusie Human	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	2.89	2.37	2.89	2.41	2.64
DILALJOO	& Circuits Lab	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
	Electronics	2.90	2.43	2.90	2.45	2.67
BTEXW311	Workshop	Attained	Attained	Attained	Attained	Attained
	Field Training /Internship	2.11	2.55	2.07	2.50	2.33
BTES211P	/Industrial Training Evaluation	Attained	Attained	Attained	Attained	Attained
	Electrical Machines and Instruments	3.00	2.80	2.88	2.65	2.83
BTEXC401		Attained	Attained	Attained	Attained	Attained
BTEXC402	Analog Communication Engineering	2.84	2.82	2.82	2.66	2.79
		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	2.88	2.79	2.85	2.65	2.79
	Systems	Attained	Attained	Attained	Attained	Attained
BTID405	Product Design	2.94	2.83	2.38	2.83	2.74
	Engineering	Attained	Attained	Attained	Attained	Attained
BTBSC406	Numerical Methods and Computer	2.91	2.81	2.84	2.69	2.81
	Programming	Attained	Attained	Attained	Attained	Attained
BTEXL407	Electrical Machines	2.87	2.89	2.89	2.90	2.89
	and Instruments Lab	Attained	Attained	Attained	Attained	Attained

	Analog Communication	2.98	2.91	2.83	2.81	2.88
BTEXL408	Engineering Lab	Attained	Attained	Attained	Attained	Attained
	Microprocessor Lab	2.9	2.44	2.94	2.46	2.68
BTEXL409		Attained	Attained	Attained	Attained	Attained
	Signals and	2.9	2.44	2.94	2.46	2.68
BTEXL410	Systems Lab	Attained	Attained	Attained	Attained	Attained
	Soft-Skill	1.07	1.08	1.08	1.12	1.09
BTHML411	Development	Attained	Attained	Attained	Attained	Attained
	Field Training /Internship	2.11	2.55	2.07	2.50	2.33
BTEXF412	/Industrial Training Evaluation	Attained	Attained	Attained	Attained	Attained
BTEXC501	Electromagnetic Field Theory	2.85	2.85	2.89	2.87	2.86
DILACOU		Attained	Attained	Attained	Attained	Attained
	Control System	2.77	2.84	2.86	2.63	2.78
BTEXC502	Engineering	Attained	Attained	Attained	Attained	Attained
BTETC503	Computer Architecture	2.39	2.31	2.29	2.2	2.3
		Attained	Attained	Attained	Attained	Attained
	Digital Signal	2.72	2.73	2.78	2.72	2.74
BTEXC504	Processing	Attained	Attained	Attained	Attained	Attained
	Microcontroller and its Applications	2.89	2.84	2.89	2.86	2.87
BTEXC505		Attained	Attained	Attained	Attained	Attained
	Data Structure	2.83	2.83	2.86	2.74	2.82
BTEXPE506C	&Algorithms Using Java Programming	Attained	Attained	Attained	Attained	Attained

		1				
BTETL507	Control System Engineering Lab	2.95	2.4	2.91	2.4	2.66
		Attained	Attained	Attained	Attained	Attained
	Digital Signal	2.94	2.46	2.93	2.47	2.7
BTETL508	Processing Lab	Attained	Attained	Attained	Attained	Attained
BTETL509	Microcontroller and its Applications Lab	2.94	2.46	2.95	2.48	2.71
DILILSO		Attained	Attained	Attained	Attained	Attained
	Mini Project	2.25	2.86	2.23	2.89	2.56
BTETP510		Attained	Attained	Attained	Attained	Attained
	Seminar	2.34	2.65	2.65	2.97	2.66
BTETS511	Seminar	Attained	Attained	Attained	Attained	Attained
	Field Training	2.86	2.88	2.87	3	2.9
BTEXF412	/Internship /Industrial Training Evaluation	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
	Computer Network	2.38	2.31	2.29	2.22	2.3
BTETC602	& Cloud Computing	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
	Python	2.39	2.31	2.29	2.21	2.3
BTETOE605E	Programming	Attained	Attained	Attained	Attained	Attained

	Employability &	2.81	2.85	2.89	2.89	2.86
BTHM606	Skill Development	Attained	Attained	Attained	Attained	Attained
	Computer Network & Cloud	2.39	2.32	2.29	2.22	2.3
BTETL607	Computing Lab	Attained	Attained	Attained	Attained	Attained
	Python	2.39	2.31	2.29	2.21	2.3
BTETOE605E	Programming	Attained	Attained	Attained	Attained	Attained
BTETL609	Python	2.39	2.31	2.29	2.21	2.3
	Programming Lab	Attained	Attained	Attained	Attained	Attained
	Mini-project	2.25	2.89	2.24	2.87	2.56
BTETP610	1 5	Attained	Attained	Attained	Attained	Attained
	Field Training/Internship/	2.84	2.85	2.88	2.92	2.87
BTETF611	Industrial Training	Attained	Attained	Attained	Attained	Attained
	Digital	2.39	2.31	2.29	2.21	2.3
BTETC701	Communication Wireless Sensor Network	Attained	Attained	Attained	Attained	Attained
		2.64	2.84	2.58	2.94	2.75
BTETPE702		Attained	Attained	Attained	Attained	Attained
BTETPE703	Embedded System Design	2.56	2.76	2.51	2.9	2.68
		Attained	Attained	Attained	Attained	Attained
	Mechatronics	2.8	2.83	2.89	2.89	2.85
BTETPE704		Attained	Attained	Attained	Attained	Attained
BTHM705	Financial Management	2.39	2.31	2.29	2.21	2.3
		Attained	Attained	Attained	Attained	Attained

	Wireless Sensor	2.94	2.46	2.95	2.48	2.71
BTETL706	Network	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
	Mechatronics Lab	2.91	2.9	2.45	2.43	2.67
BTETL708		Attained	Attained	Attained	Attained	Attained
	Project Part I	2.82	2.83	2.93	2.85	2.85
BTETP709		Attained	Attained	Attained	Attained	Attained
	Field Training/ Internship/Industrial	2.82	2.83	2.93	2.85	2.85
BTETF611	Training Evaluation	Attained	Attained	Attained	Attained	Attained
	Introduction to the	2.39	2.31	2.29	2.21	2.3
BTETPE801A	Internet of Things	Attained	Attained	Attained	Attained	Attained
	Industrial Automation and	2.92	2.9	2.94	2.85	2.9
BTETPE802A	Control	Attained	Attained	Attained	Attained	Attained

3.3.2 Provide results of evaluation of each PO&PSO

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

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

(40)

PO Attainment:

Course Name & Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	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												
Engineering (BTES106)	2.87	2.93	2.73	2.73		2.73	2.93			2.81	2.73	
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		

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2.93		2.93	2.93	2.93				2.93	2.93	2.93	2.93
2.95					2.95	2.05					
2.85					2.85	2.85					
264	2.45	2.02						274	2 15		
2.04	2.43	2.93						2.74	2.43		
3	3				3	3		3			
2.5	2.5	2.45			2.52			2.52			
2.94	2.86			2.84	2.84	2.72	2.84	2.85	2.85		
2.8	2.95	2.84		2.87				2.84		2.84	2.88
2.86	2.86	2.84	2.86	2.89						2.81	
2.86	2 84	2.85	283	2.81						2 81	
2.00	2.04	2.05	2.05	2.01						2.01	
2.79	2.77	2.69	2.81	2.74						2.72	
288	286	288	288	286						288	
2.00	2.80	2.00	2.00	2.80						2.00	
		2 85		2.05			2 95	2 85	2 05		
		2.05		2.95			2.95	2.05	2.95		
2.73	2.68	2.65	2.71	2.71						2.76	
2 02	275	2.7	2.62	2.61						2 70	
2.82	2.75	2.7	2.62	2.01						2.79	
2.95	2.45	2.94	2.47	2.78							2.48
2.05	267	262	267	265							2 71
2.93	2.07	2.02	2.07	2.03							2.71
	2.5 2.94 2.8 2.86 2.86 2.79 2.88 2.79 2.88 2.73 2.82	2.85 2.64 2.45 3 3 2.5 2.5 2.94 2.86 2.84 2.95 2.86 2.84 2.79 2.77 2.88 2.86 2.79 2.77 2.88 2.86 2.73 2.68 2.95 2.45	2.85	2.85 Image: constraint of the sector of		1 1 1 1 1 1 1 2.85 2.85 2.64 2.45 2.93 1 1 2.85 3 3 1 1 1 3 3 2.5 2.55 2.45 1 1 2.84 2.84 2.94 2.86 2.45 1 2.84 2.84 2.84 2.88 2.95 2.84 2.86 2.89 2.81 2.74 2.86 2.84 2.85 2.83 2.81 2.74 2.74 2.88 2.86 2.88 2.88 2.86 2.81 2.74 2.79 2.77 2.69 2.81 2.74 2.71 2.73 2.68 2.65 2.71 2.71 2.71 2.95 2.45 2.94 2.47 2.78 2.78	1 1 1 1 1 1 2.85 2.85 2.85 2.85 2.85 2.85 2.64 2.45 2.93 1 1 1 1 3 3 1 1 1 3 3 2.5 2.55 2.45 1 1 2.52 1 2.94 2.86 2.45 1 2.84 2.84 2.84 2.72 2.86 2.86 2.84 2.86 2.89 1 1 2.86 2.84 2.85 2.83 2.81 1 1 2.86 2.84 2.85 2.83 2.81 1 1 2.88 2.86 2.88 2.88 2.86 1 1 2.88 2.86 2.81 2.71 2.71 1 1 2.73 2.68 2.65 2.71 2.71 1 1 2.82 2.75 2.7 2.62 2.61 1 1	1 1 1 1 1 1 1 1 2.85 2.85 2.85 2.85 2.85 2.64 2.45 2.93 1 1 2.85 2.85 3 3 3 1 1 1 3 3 3 3 2.5 2.5 2.45 1 1 2.52 1 1 2.94 2.86 1 1 2.84 2.84 2.84 2.84 2.84 2.84 2.84 2.85 2.81 1 1 1 2.86 2.86 2.84 2.86 2.89 1 1 1 1 1 1 2.86 2.84 2.85 2.83 2.81 2.81 1 1 1 1 2.88 2.86 2.88 2.88 2.86 2.86 2.95 1 1 1 1 1 2.77 2.69 2.81 2.71 2.71 1 1 1 1 1 2.88 2.86 2.88 2.88 2.86 1 1 1 1 1 1 2.73 2.68 2.65 2.71 2.71 1 1 1 1 1 2.95 2.45 2.94 2.47 2.78 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 2.85 2.45 2.93 1 1 2.85 2.85 2.85 2.74 3 3 2.93 1 1 1 1 1 2.74 3 3 1 1 1 3 3 3 3 2.5 2.55 2.45 1 2.84 2.52 1 2.84 2.94 2.86 1 2.84 2.84 2.84 2.72 2.84 2.85 2.84 2.86 2.84 2.86 2.87 1 1 1 2.84 2.86 2.84 2.86 2.87 1 1 1 1 1 2.86 2.84 2.86 2.87 1 1 1 1 1 1 2.86 2.84 2.86 2.87 2.87 1 1 1 1 1 1 2.86 2.84 2.85 2.83 2.81 1 1 1 1 1 1 1 2.88 2.86 2.84 2.85 2.85 2.95 1 1 1 1 1 1 2.88 2.86 2.88 2.86 2.81 2.95 2.85 2.95 2.85 2.95 2.85 2.73 2.68 2.65 2.71 2.71 1 1 1 1 1 1 2.82 2	Image: Constraint of the sector of	11111111112.851111111111112.642.452.931111112.742.45133111111111112.512.552.45112.52112.521112.942.86112.842.842.822.842.852.842.842.842.852.84 </td

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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 Programming (BTBSC406)	2.82		2.84	2.82								
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	

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			1				1		1	•		
Field Training/ Internship/Industrial Training (BTEXF412)	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	2.96	2.96	2.96	2.96								2.96
(BTEXPE506A) 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 (BTEXF412)	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	2	3	2.33	2	2						1.67	

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(BTETC601)												
Computer Network												
& Cloud	1.33	3	2	1	3	3					2	
Computing (BTETC602)												
Digital Image	3	2	2.5	2.25								3
Processing (BTETC603)												
Android	2.25	2	1.5	2	1.33							1
Programming (BTETPE604F)												
Python Programming	2.83	2.83	2.83		2.83						2.85	2.85
(BTETOE605E)												
Employability & Skill Development	2	2				2	2	2		2		
(BTHM606)												
Computer Network & Cloud	1.5	1.75	1.67	1	1.33						1	
Computing Lab	1.5	1.75	1.07	1	1.55						1	
(BTETL607)												
Android Programming Lab	2.75	2.5	2	2		1.25	1.25		1.75	1.25		1.25
(BTETPE608F)												
Python	2.7	2.7	2.7	2.7	2.7							2.5
Programming Lab (BTETL609)												
Mini-project	1.75	1.33	2	1.25	1.67		1	2	1	2		
(BTETP610)												
Field Training/ Internship/	2.38	2.38	2.42	2.26	2.41	2.24	2.38	2.29	2.27	2.38	2.27	2.41
Industrial Training	2.00	2.00					2.00	>			,	
(BTETF611) Digital												
Communication	3.0	3.0	3.0	2.5	2.5							2.0
(BTETC701)												
Wireless Sensor Network	2.0		2.0	2.0	2.5				3.0		2.5	
(BTETPE702)												
Embedded System	2.0	2.0	1.5	2.0	3.0				1.0			2.0
Design (BTETPE703)		2.0	1.0	2.0	2.0				1.0			2.0
Mechatronics	2.0		2.0	2.0	2.5			<u> </u>	3.0		2.5	
(BTETPE704)												

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									1	1		
Financial Management(BTH	2.5	2.3	2.5		2.0	2.5	2.0	2.5		1.5	2.0	1.5
M705)												
Wireless Sensor	2.6		2.5	2.5	2.4	2.9		2.4				
Network												
Embedded System	2.8	2.7	2.7	2.6	2.7						2.9	
Design Lab	2.0	2.1	2.1	2.0	2.7						2.9	
(BTETL707)												
Mechatronics Lab	2.6		2.5	2.5	2.4	2.9		2.4				
(BTETL708)												
Project Part I	2.75	2	3	3	2.25	1.33	1.67	1	2	1.75	2	1.5
(BTETP709)												
Field Training/												
Internship/Industrial	2.4	2.4	2.4	2.3	2.4		2.4		2.3	2.4	2.3	2.4
Training Evaluation												
(BTETF611)												
Introduction to	1	2	2	1	2						1	
Internet of Things	1	-	-	1	2						1	
(BTETPE801A)												
Industrial												
Automation and	3	3	3	2.5	2.5							2
Control												
(BTETPE802A)												
Approximate	2.56	2.53	2.51	2.36	2.47	2.63	2.25	2.29	2.41	2.34	2.24	2.33
Attainment												
	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 Attainm ent	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 Attainm ent	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 Attainm ent	2.41	2.28	1.97	2.21	2.33	2.36	2.20	1.95	2.17	1.97	2.16	2.28

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Year & Semester	Course code	Course	PSO1	PSO2
	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
FY SEM1	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.		
	BTBS201	Engineering Mathematics- II	2.87	2.87
FY SEMII	BTBS202	Engineering Chemistry		
_ ~	BTES203	Engineering Mechanics		
	BTES204	Computer Programming in C	2.85	

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DTES205	Warkshan Drastian		
DIE5203	worksnop Practices		
BTES206	Basic Electrical and		
	Electronics	2.93	2.85
	Engineering		
DTESOOTI			
BIES20/L	-	2.45	
	Programminging Lab		
BTBS208L	Engineering		
	Chemistry Lab		
DTES2001	Ensineering		
BIES209L			
	Mechanics Lab		
BTES210P	Mini Project	2.84	2.72
		2.42	2.33
BTES211P			
	Engineering		
BTBSC301	Mathematics-III	2.92	2.88
Dibbeeoi			
BTBSC302	Analog Circuits	2.88	2.87
	Electronic Devices &	2.85	2.89
BTBSC304	Network Analysis	2.77	2.70
		2.88	2.84
BTBSC305	Digital Logic Design	2.00	2.07
BTHM3401	Basic Human Rights	2.95	2.85
BTEXI 307	Analog Circuits Lab	2.45	2.43
DILALJUI	Electronic Devices &		
BLEVI 200		2.70	2.70
DIEAL300	Circuits Lau		
	Network Analysis		
DTEVI 200		2.95	2.45
DIEALSUY			
	Digital Logic Design	2.62	2.60
BTEXL310	Lab	2.02	2.00
	BTES207L BTBS208L BTES209L BTES210P BTES210P BTES211P BTBSC301 BTBSC301 BTBSC303 BTBSC304 BTBSC304 BTBSC304 BTBSC305 BTHM3401 BTESL307 BTEXL308 BTEXL309	BTES206Basic Electrical and Electronics EngineeringBTES207LComputer Programminging LabBTBS208LEngineering Chemistry LabBTES209LEngineering Mechanics LabBTES210PMini ProjectBTES211PField Training/ Internship/Industrial Training Evaluation Engineering BTBSC301BTBSC302Analog CircuitsBTBSC303Electronic Devices & CircuitsBTBSC304Network AnalysisBTBSC305Digital Logic Design BTHM3401BTEXL307Analog Circuits LabBTEXL308Circuits LabBTEXL309Lab	BTES206Basic Electrical and Electronics Engineering2.93BTES207LComputer Programminging Lab2.45BTBS208LEngineering Chemistry Lab2.45BTES209LEngineering Mechanics Lab2.44BTES210PMini Project2.84BTES211PField Training/ Internship/Industrial Training Evaluation2.92BTBSC301Mathematics-III2.92BTBSC302Analog Circuits2.88BTBSC303Electronic Devices & Circuits2.85BTBSC304Network Analysis2.77BTBSC305Digital Logic Design2.88BTEXL307Analog Circuits Lab2.45BTEXL308Circuits Lab2.70BTEXL309Lab2.95Digital Logic Design2.70Digital Logic Design2.70Digital Logic Design2.70Digital Logic Design2.95BTEXL309Digital Logic Design2.95Digital Logic Design2.95BTEXL309Digital Logic Design2.95Digital Logic Design2.95BTEXL309Digital Logic Design2.95BTEXL309Digital Logic Design2.95BTEXL309Digital Logic Design2.95BTEXL309Digital Logic Design2.95

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		1	1	
		Electronics	2.45	2.94
	BTEXW311	Workshop		
		Electrical Machines	2.80	2.90
	BTEXC401	and Instruments		
		Analog	2.83	2.82
		Communication	2.00	2.02
	BTEXC402	Engineering		
	BTEXC403	Microprocessor	2.84	2.86
		Signals and Systems	2.82	2.82
	BTEXC404			
		Product Design	2.70	2.71
	BTID405	Engineering		
		Numerical Methods	2.76	2.86
SY- SEM IV		and Computer	2.70	2.00
	BTBSC406	Programming		
		Electrical Machines	2.78	2.62
	BTEXL407	and Instruments Lab		
		Analog	2.94	2.45
		Communication	2.94	2.43
	BTEXL408	Engineering Lab		
	BTEXL409	Microprocessor Lab	2.70	2.74
		Signals and Systems	2.71	2.66
	BTEXL410	Lab		
		Soft-Skill	1.07	
	BTHML411	Development		
		Field Training/	2.20	2.24
		Internship/Industrial	2.20	2.34
	BTEXF412	Training		
		Electromagnetic	2.25	2.00
	BTEXC501	Field Theory		
		Control System	1.33	2.00
	BTEXC502	Engineering		
		Computer	1.67	1.50
	BTETC503	Architecture		
		Digital Signal	2.00	
TY- SEM V	BTEXC504 BTEXC505	Processing		
		Microcontroller and	1.75	
		its Applications		
		Probability Theory	2.05	2.01
		and	2.96	2.96
	BTEXPE506A	Random Processes		
		Control System	2.00	2.00
	BTETL507	Engineering Lab		
	BTETL507	-	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
	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
TY- SEM VI	BTHM606	Employability & Skill Development	2.00	2.00
	BTETL607	Computer Network & Cloud Computing Lab	1.25	1.00
	BTETPEL608	Android Programming Lab	3.00	1.00
	BTETL609	Python Programming Lab	2.73	2.71
	BTETP610	Mini-project	2.00	1.50
	BTETF611	Field Training/ Internship/ Industrial Training	2.20	2.34
	BTETC701	Digital Communication	2.00	1.50
BTech- SEM VII	BTETC702	Wireless Sensor Network	3.00	2.00
	BTETC703	Embedded System Design	1.79	2.00

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	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
B Tech- SEM	BTETPE801A	Introduction to Internet of Things	2.00	1.00
VIII		Industrial Automation and	1.00	2.75
	BTETPE802A	Control		

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

CRITERION	Students' Performance	150
04		

4.5. Placement, Higher Studies and Entrepreneurship

(40)

Item	CAY <i>m1</i> (2021-22)	CAY <i>m2</i> (2020-21)	CAY <i>m3</i> (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	0.90	0.94	0.75
Average placement=(P1+P2+P3)/3	0.86		

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 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 ALLAUDDI N	HCL TECHNOLOGIE S 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/A4	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	TECHNICIAN APPRNTICE	1.44 L	HR- TRG/TA/REC/2021- 22/
9	JADHAV KOMAL SANJAY	WELLNESS FOREVER MEDICARE LTD.,MUMBAI	INTERNSHIP 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 RAMCHAN DRA	RELIEANCE SMSL PUNE	SALES ASSOCIATE	1.75 L	HR/FEB/23/K2/60599 331/1001411098
12	KUMBHAR DHANASH REE SHARAD	TATA AUTOCOMM SYSTEM LTD PUNE	AUTOMOTIVE 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/ 22-23
15	KADAM VAISHNAV I RAJENDRA	SURYAURJAA TECHNOLOGY, SATARA	Sales-Trainee	1.25L	SURYA-OL/2223/08- 04
16	KADAM SHIVANI VIJAY	TATA MOTOR PUNE	TECHNICIAN 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	INTERNSHIP TRAINEE	2.5 L	HR/IT-2021-22
19	CHAVAN SANDHYA RANI SHASHIKA NT (print)	TATA MOTOR PUNE	TECHNICIAN 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

		1			1
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 SHASHIKA NT	SURYAURJAA TECHNOLOGY, SATARA	SALES- TRAINEE	1.25L	SURYA-OL/2223/08- 07
26	SAWANT POOJA KRISHNAT	RSL SOLUTIONS PVT LTD, PUNE	SOFTWARE DEVELOPER	2.44 L	RSL/REC/021-22
27	JADHAV GHANSHY AM 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/202 1-22
29	ANJALI SAHEBRA O SANAS	INYATRA TECH PVT LTD	PCB TESTING	1.22 L	INYANTRA/REC/20 21-22
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	OMKAR LECTRONICS	GRADUATE TRAINEE	2.25 L	OMKAR/REC/2021- 22
	PRADIP BABAR	SAI	ENGINEER		
33	HEMA SURESH	TECHNOLOGY, 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 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/20 21-22
38	BHILARE PRIYANKA RAVINDRA	INYANTRA TECH PVT LTD SHINDEWADI	TRAINEE Engineer	1.8 L	INYANTRA/REC/20 21-22
39	PAWAR ANKITA VILAS	OMKAR LECTRONICS	GRADUATE TRAINEE ENGINEER	2.25 L	OMKAR/REC/2021- 22
40	JADHAV VAISHNAV I SUHAS	APTE MANUFACTURI NG LTD SATARA	SALES COORDINATOR	2.40 L	AMSPL/HR/F20
41	VIDHATE PRANALI SURESH	PROMPT PERSONNEL	AGENCY CONTRACTOR PROVISIONING & CONFIGURATI ON MANAGEMENT	2.37 L	PR/REC/2021-22
42	MADIWAL NILRAJ BASURAJ	CEM ELECTROTECH PVT LTD	PROCESS QUALITY ENGINEER	3.20 L	CEM0REC02021-22

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43	SAKUNDE SACHEEN RAMCHAN DRA	FLASH ELECTRONICS	SENIOR PCB DESIGNER- R&D	1.80 L	FEIPL/HR/APPT/190 6
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 TECHNOLOGIE S	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/202 3/007
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	JAMDADE SHRAVANI RAMESH	INYATRA TECH PVT LTD	PRODUCTIO N ENGINEER	1.80 L	INYANTRA/REC/20 21-22
3	RAJASHRI DAJIRAM DESHMUKH	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/20 20-21
4	MANKAR KOMAL RAMCHANDRA	SAI TECHNOLOGY	GRADUATE TRAINEE	2.5L	SAI/REC/2022
5	ROHIT PANDURANG DESHMUKH	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/20 20-21
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	INFOSIS, MYSORE	SYSTEM ENGINEER	3.00 L	INFOSYS/REC/2020 -21

			1		Γ
8	AVINASH SHAHAJI	PROCOL PUNE	JUNIOR ENGI	3.1 L	PRL-HRD-151-
	WAGHMARE				PROB-RECT-2021
9	BANDAL TUSHAR	SURESH INDU	PRODUCTIO	2.5 L	SIL-HR/REC/2020-
	JAYWANT	LASERS PVT.	N AND		21
		LTD, PUNE	SERVICE		
			TRAINEE		
10	BHINGARE	DANA INDIA	POST	2.5 L	DANA/ENGI/22-23
10	RAKSHATA	TECHNICAL	GRADUATE	210 1	
	MAHADEV	CENTER, PVT	TRAINEE		
		LTD,	ENGI		
		RATNAGIRI	LITCH		
		iu iu iu iu iu			
11	BHOITE AKASH	PROMPT	ASSOCIATE	2.1 L	PROMPT-
	PRATAPRAO	PERSONNEL,	ENGINEER		HRD/REC/2020-21
		MUMBAI			
12	BHOSALE JYOTI	VIDHYATI	TRAINEE	2.70 L	VIDHYATI/REC/20
	RAJKUMAR	TECH	ENGINEER		20-21
		KOLHAPUR	GRADE-T		
13	CHAVAN	TOOL TECH	GET-	3.00 L	TOOLTECH-
		GLOBAL	SOFTWARE		
	NAMRTA RAMDAS				HR/REC/2020-21
		ENGINEERING	ENGI		
14	CHAVAN POONAM	INSTMOJO	OPERATOR	4.8 L	INTA/REC/2020-21
	MADHUKAR	PUNE	ENGINEER		
15	CHAVAN PRIYANKA	STELLANTIS	GRADUATE	5.5 L	FCAIT-
	RAJENDRA	FACAIT	ENGINEER		HR/REC/2020-21
		AUTOMOTIVE	TRAINEE		
		INDIA PVT LTD			
16	CHAVAN TANUJA	WIPRO, PUNE	PROJECT	3.5 L	WIPRO-
	VISHWAS		ENGINEER		HR/REC/2020-21
17				2.70 L	

	1	Γ	ſ		1
	CHOUGULE AKASH	VIDHYATI	TRAINEE		VIDHYATI/REC/20
	BHIMRAO	TECH	ENGINEER		20-21
		KOLHAPUR	GRADE-T		
18	DONGHARE	INFOSIS,	SYSTEM	3.5 L	HRD/1003892506/21
	MRUNALI KISHORE	MYSORE	ENGINEER		-22
			TRAINEE		
19	GAVALI MANISHA	VIDHYATI	TRAINEE	2.70 L	VIDHYATI/REC/20
	KRUSHNKANT	TECH	ENGINEER		20-21
		KOLHAPUR	GRADE-T		
20	GOVARKAR RUTVIK	ELECTRAA	PRODUCTIO	1.8 L	ELECTRA;HRD/RE
	AJIT	SOLAR SYSTEM	N AND		C/2020-21
			SERVICE		
			ENGI		
21	JADHAV AKSHAY	PRICOL	ASSEMBLY	1.88 L	PRE/REC/2020-21
	ARUN	TECHNOLOGIES	LINE		
		PUNE	OPERATOT		
22	JADHAV ALPESH	SAGITEC	TRAINEE	1.2 L	HR/SAGITEC/SP/TL
	ANADRAO	SOLUTIONS PVT	ENGINEER		/015/08/22
		LTDPUNE			
23	JADHAV	DHRUVA	TRAINEE	2.2 L	DRHUV/REC/2020-
	ANURADHA	AUTOMATION	ENGINEER		21
	NARENDRA	AND CONTROL			
		PVT LTD			
24	JADHAV ASHWINI	PRICOL	ASSEMBLY	2.2 L	PRE/REC/2020-21
	SUDHAKAR	TECHNOLOGIES	LINE		
		PUNE	OPERATOT		
25				2 4 1	TCSL (DT202102000
25	JAGADALE KAJAL	TCS , CHENNAI	ASSISTANT	3.4 L	TCSL/DT202193000
	SOMNATH		SYSTEM		33/CHENNAI
			ENGINEER-		
			TRAINEE		
26	JAYANT SANJAY	QLOGICIEL	SOFTWARE	1.8 L	QLOGIC-
	PAWAR		TESTER		HRD/REC/2020-21

27	KALE KSHITIJ	LUEWINT TECH	JUNIOR	1.5 L	LUWINT/REC/2020-
	SURYKANT	PVT LTD	ENOVIA		21
			DEVELOPER		
28	KHARAT SHITAL	OMKAR	PCB	1.8 L	OMKAR/REC/020-
	SHASHIKANT	ELECTRONICS	DEVELOPER		21
20		APTRON TECH		3.0 L	ADT SO/2021 22/11
29	KULKARNI		TRAINEE	3.0 L	APT-SO/2021-22/11-
	VISHWJEET AMOL	SATARA	ENGINEER		05
30	MALI BHAGYASHRI	ТАТА	SOFTWARE	4.7 L	TCS-HR/REC/2020-
	RAGHUNATH	TECHNOLOGIES	DEVELOPER		21
		, PUNE			
		,10112			
31	MORE	VODAFONE	MANAGER-		VODA/REC/2020-21
51	PRATHAMESH				VODA/REC/2020-21
		PUNE	MOBILITY	7.2 L	
	ANANDRAO				
32	MULANI MOHASIN	CEM	PROJECT	1.9 L	CEM/REC/2020-21
		ELECTROMECH	ENGINEER		
		PVT LTD,			
		SANGALI			
22				1 O T	
33	NIKAM PRIYANKA	VIDHYATI	TRAINEE	1.8 L	VIDHYATI/REC/20
	CHANDRAKANT	TECH	ENGINEER		20-21
		KOLHAPUR			
34	PARAG DILIP	SVAKARMA	FINANCE	3.8 L	SVAKARMA/REC/2
	BABAR	FINANCE PVT	OFFICER		020-21
		LTD			
			l		

35	PAWAR KULDEEP SHIVAJI	CDAC, THIRUVANANT PURAM	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/2 020
39	PUJA SURESH DESHMUKH	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER	1.8 L	VIDHYATI/REC/20 20-21
40	RAJPURE ABHIJEET	SAGITECH PUNE	TRAINEE ENGINEER	1.2 L	SAGITECH/REC/20 20
41	RANKHAMBE MEGHA JALINDAR	SPACE AUTOMATION	SYSTEM ENGINEER	1.2L	SA-HRA/REC/22-05
42	SALUNKHE ABHISHEK	GOLDSQUIRREL	SOFTWARE TESTER	2.8 L	GOLDSQL/REC/202 0
43	SALUNKHE MAYURI	SURYAURJAA TECH	SALES TRAINEE	1.25	SURYA/REC/2020
44				2.25 L	SAI/REC/2022

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	SALUNKHE	SAI	GRADUATE		
	RUSHIKESH	TECHNOLOGY	ENGINEER		
			TRAINEE		
45	SAWANT SHITAL	FAURECIA,	GRADUATE	5.5 L	FAURECA/REC/202
		PUNE	ENGINEER		0
			TRAINEE		
46	SHINDE AKSHAY	YASH	GRADUATE	3.5 L	YASH/REC/2020
	SANJAY	TECHNOLOGY	ENGINEER		
			TRAINEE		
47	SHINDE GANESH	ACME	SOFTWARE	1.95 L	ACME/REC/2020
47	SANJAY	INFOVISION	DEVELOPER	1.95 L	ACWIE/REC/2020
	071113711		DEVELOIER		
48	SHINDE MAYURI	VIVEKANAND	STEM LAB	1.8 L	VAHE/APP
	KRUSHNKANT	ACADEMY,SAT	TECH		ORD/DOC/2021-
		ARA	ASSITANT		22/43
49	SHINDE PRAJAKTA	SAI	GRADUATE	2.5L	SAI/REC/2022
42	SIINDETRAJAKTA	TECHNOLOGY	TRAINEE	2.JL	SAI/REC/2022
50	SHIRKE AMIT	SAI	GRADUATE	1.9 L	SAI/REC/2022
	KRISHNA	TECHNOLOGY	TRAINEE		
51	AKSHATA URANE	INFOSIS,	SYSTEM	3.6 L	INFO/REC/2020-21
		MYSORE	ENGINEER		
			TRAINEE		
52	VINCHU SONAM	SURYAURJAA	SALES	1.25 L	SURYA/REC/2020
		TECH	TRAINEE		
53	WAYADANDE	CENTURION	NEEM	2.5 L	NEEM/REC/2020-21
	VIDYA	UNIVERSITY OF	TRAINEE		
		TECHNOLOGY	ENGINEER		
		AND			
		MANAGEMENT			

54	PRIYANKA YADAV	SAI	GRADUATE	2.5L	SAI/REC/2022
		TECHNOLOGY	TRAINEE		

Programs Name and Assessment

Year (2019-20)

S. no.	Name of student	Name of the company	Designation	Salary (Per Annum)	Ref Number
1	KADAM KIRANVIKA S	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 DEVELOPE R	3.5 L	TCS/HR/REC/2019-20
5	NIKAM AISHVARYA S.	VIDHYATI TECH KOLHAPUR	TRAINEE ENGINEER GRADE-T	2.70 L	VIDHYATI/REC/2020- 21
6	BHOSALE SNEHAL S.	PHEONIX MICROSYSTEMS,PU NE	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	PRODUCTI ON AND SERVICE TRAINEE	2.5 L	MANSHU- HR/REC/2020-21
10	BHOSALE DHANASHR EE MANOJ	MANSHU COMTEL PVT LTD, SATARA	PRODUCTI ON AND SERVICE TRAINEE	2.5 L	MANSHU- HR/REC/2020-21
11	MENGANE NANDINI P.	KINETIC COMMUNICATIONS LTD, PUNE	PRODUCTI ON 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	CHABUKSW AR SANOVAR M.	SAI INDUSTRIES SATARA	TECHNOCA L SUPPORT ENGINEER	2.44 L	SAI/HRD/REC/2019- 20

Department of Electronics and Telecommunication Engineering

15	MOHITE CHAITANYA D.	PROMPT PERSONNEL	NOC ENGINEER	2.5 L	PROMPT/REC/2020
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CRITERION	Faculty Information and Contributions	200
05		

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 counseled by the Head of the Institute.

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

	АРР	RAISAL AND	360 ⁰ FEEDBACK FORM		
	Name Date of Dirth Highest Qualification Designation Experience Program Mobile No. Email Permanent Address (with pin code) Academic Year SCORES FOR ACADEMIC PERFORMANCE INDICATOR	98603	Ayatri Miraykar B. ph.D. Post Doc (Nov and Dean (RGD Hattimirajkar @ gm Behind Chultan ga 1723	HS. SOC. SAP HS. SOC. SAP Azod (ol	ARTICHAYA
		UNIVERSITY/	COLLEGE LEACHERS		
			3 AND EVALUATION RELATED ACT		
The 1 Le 2 Le 3 Pro	ef Explanation: Based on the teacher's self-assessment, tamination and evaluation: (d) contribution to innovati self assessment score should be based on objectively ve ctures, seminars, tutorials, practical's, contact hours un ctures or other teaching duties in excess of the UGC nor eparation and Imparting of knowledge / Instruction as j of participatory and innovative teaching-learning met	rifiable criteria y dertaken taken a ms. per curriculum; s hodologies; upda	wherever possible and will be finalize s percentage of lectures allocated. yllabus enrichment by providing add ating of subject content, course impro	d by the screening, ser litional resources to str wement etc.	
5 Exa Sr. N	mination duties (Invigilation: question paper setting, e o. Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1.6	Excellent course file for the subject, teaching plan	20	Lasson Plan and Lab Plan completed	. 18	16
1.8	displayed Conducting practical lab. / tutorials; work nicely with lab innovations	20	Mes Conducting	18	16
10	Student Feedback outcome	10	Feedbull Preputed	08	58
2.4	Remedial Classes OR Extra lectures for DSE students	4			0
2.8	Content beyond syllabus	6	Beyond Syllabus Knowledge as	05	04
3.A	Preparation and Imparting of knowledge / instruction as per curriculum	10	per (umkulum Providing additional	08	68
3.11	syllabus enrichment by providing additional resources to students	10	presource to student	08	02
	Number of ICT Based Teaching material	5	Hes	04	
1.4	Number of Interactive Courses	5	Yes Interactive	04	04
-	Effective use of MOODLE	10	MUODLE Used	08	01
.e		15	Yes, at institute leve	12	12
C		10	Yes ut level	08	08
A N	At Institute Level	125	lz.	101	97
A N	At University Level	100			
A N		75			

Figure 5.8.1.a Performance Appraisal Form Page 1

B	tef Explanation: Based on the teacher's self-assessme	ent, category II API	D PROFESSIONAL DEVELOPMENT I	and extension activiti	ee: and Professional
be	based on objectively verifiable criteria and will be fina	ore required (15) in lized by the screen	this category to accrue to all teacher ing/selection committee.	s. As before, the self-a	ssessment score sho
2 (indent related co-curricular, extension and field based sted events, advisement and counseling) entribution to Corporate life and management of the e unittees and responsibilities.	epartment and ins	extension work through NSS/NCC a	nd other channels, cult demic and	ural activities, subjec administrative
	rofessional Development activities (such as participat emination and general articles, not covered in Categor				
Sr.	No, Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score official use)
1.	Guidance to a project in exhibition / competition won any prize. Industry Sponsored projects.	4	Guidd project peso enchibition da	NT-J OG	-3
1.1	Industry tour / visit, Visit to technical Exhibition	4	Proved parsone	7 1	0
1.0	Department / Institute level	4	Arranged invited to 14 at Institute level	84	05
1.0	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			a
1.E	extension work through NSS/NCC and other channels, cultural activities	11 41	18	5	0
2.A	Institute level Responsibilities (Deans/COE: 05, Heads:3, other:02)	i di s	Dean (Rescard)	05	05
2.8	Event Coordinators (Institute Level: 05,Department Level: 03,Participation:02)	5	e Derelopment) Event Goordinator Institute level 1	05	05
2.0	Department Level Responsibilities: 05,Participation:02	1 1 5 1	MAAR Criteria 3 Dept.	05	05
3.4	Participation in short term training courses, curriculum development, training courses, talks, lectures	5, 11	Inuted Speakersk	05	05
3.В	Membershup of professional associations committees, Boards of Studies, editorial committees of journals / institutional publications.	scal scal	SCOIPT Member TEEE, AM ISTE	95	05
3.0	Participation in subject associations, conferences, and seminars without paper presentation.	1. Sol	Yer	20	05
- 1	Total Score	50		1010	Constant of the second
1.1	Minimum API Score Required	20		38	38
	Y				

Figure 5.8.1.a Performance Appraisal Form Page 2

B. Papers in Conferences/ Seminars/ workshops etc.** C. Invited lectures or presentations for conferences/ symposia Sr. No. Performance Indicator Max points Description Score (to be by applice 1.4 Referend Journals* 20/2 publication 1.8 Non-refereed but recognized and reputable journals 1.9/2 Publication 1.9 Conference proceedings as full papers, etc.	filled Vernieu Art stor
Nr. No. Performance Indicator Max points Description Self-Assess Score (to be by applicit application 1.A Referend Journals* 20/3 publication D 10 1.B Non-referend but recognized and reputable journals and periodicals, having ISBN/ISSN numbers 10/13 publication D	filled Vernieu Art stor
1.B Non-refereed but recognized and reputable journals 30/2 Publication	ant) official use)
and periodicals, having ISBN/ISSN numbers 10/3 Publication	
Conference proceedings as full papers, etc.	0
1.C (Abstracts not to be included) 5/2 publication	0
2.A Test or Reference Books Published by International 20/100 author: 3/dapter DI Edited 20 Publishers with an established peer review system in an edited book Book	26
2.8 Subjects Books by National level publishers/State and Central Govt. Publications with ISBN/ISSN and Central Govt. Publications with ISBN/ISSN and St numbers.	ð
2.C Subject Books by Other local publishers with Information Information Information Information Information Information Information	
2.D Chapters contributed to edited knowledge based volumes published by International Publishers 5,004,000	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 .	0
Sponsored Projects carried out/ongoing	VX-
a) Major Projects amount mobilized with grants in branks in between Rs. 10,000 to Rs. 50,000/-	1 8 5.1
b) Minor Projects (Amount mobilized with grants 7/2 mean Project upto Rs.10.000/-	1 104
3.8 Consultancy Projects carried out / ongoing: Amount 10 consultancy	M. Standard
3.C Completed projects Quality Evaluation: Completed project Report(Acceptance from funding agency) //www.mour.project and 5	Sec. 1
3.D Projects Outcome / Outputs: 7/ sch talk level output Patent/Technology transfer/ Product/Process and an analytic field output estimational level	1

Figure 5.8.1.a Performance Appraisal Form Page 3

b) a) N b) O Part	Tech/M Phil- Degree awarded only D. Degree awarded Thesis submitted Not less than two weeks duration One week duration	2 /each 4 /each 5 /each 7/each 5/each			04
a) b) a) N b) O Pert	Degree awarded Thesis submitted Not less than two weeks duration	3 /each 7/each			0.45
b) a) N b) O Part	Thesis submitted Not less than two weeks duration	3 /each 7/each			24
a) N b) O Part	Not less than two weeks duration	7/each		A BAC	94
b) O Part				State -	ar
b) O Part	One week duration	S/sach			
		1	#1	5	- 0
1. Contraction 1. Con	ticipation and Presentation of research papers al/poster) in	3	in the	12	
a) In	nternational conference	Lesch	05	40	<0
b) N	National conference	6/ each		N.	
c) Re	legional/State level	4 /each		- CAT	Contraction of the
d) Le	ocal – University/College	2/each		11 1 1	192
a) N	National level	5/each		Sec. Sec. Sec. Sec.	2018
bis	State level	2/each	1	44 (15	
	Total Score	175		85	-85

*Wherever relevant to any specific discipline, the API score for paper in refereed journal would be augmented as follows: (1) indexed journals – by 5 points; (ii) papers with impact factor between 2 and 5 by 15 points; (iv) papers with impact factor between 5 and 10 hy 25 points. 1.1.10

ter 1

** 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 (up = 1 21)	70	165
Total Self-Assessment Score	10)	38	85	224
Score by Screening/ selection committee	57	38	85	220

Date: 14/19/2023 Satura

nendation by screening team (Academic Monitoring Committee): Excellent

Member AMC

Head of Department

Làno Registrar

Thepal

Figure 5.8.1.a Performance Appraisal Form Page 4

	APPR	AISAL AND 3	60 ⁰ FEEDBACK FORM			
Name Mit. Hingmize V. S.						
	Date of Birth Highest Qualification	9/10/1997 UG/PGYPh D				
	Designation	Assistant Professor Treaching 11 Years Industrial 1 years Total 12 years				
	Experience Program	Electronics & Telecommunication Engineering.				
	Mobile No. Email	8482875175				
	Permanent Address (with pin code) Academic Year	330/5, Koleshwar colony, Shukewar peth, Salaz 2022-23				
scol	RES FOR ACADEMIC PERFORMANCE INDICATORS	(APIs) IN RECRU	UTMENTS AND CAREER ADVANCE	EMENT SCHEME (CAS) PROMOTIONS OF	
		Sector and the sector of the s	AND EVALUATION RELATED ACTI	VITIES		
in exam The self	xplanation: Based on the teacher's self-assessment, ination and evaluation: (d) contribution to innovativ assessment score should be based on objectively ver	e teaching, new co rifiable criteria wi	nerever possible and will be finalized			
	res, seminars, tutorials, practical's, contact hours und		percentage of lectures allocated.			
2. Lectu	res or other teaching duties in excess of the UGC nor	ms.				
3. Prepa	aration and Imparting of knowledge / instruction as p	er curriculum; sy	llabus enrichment by providing add	itional resources to st	udents.	
					udents.	
4. Use o	f participatory and innovative teaching-learning met	hodologies; updat	ing of subject content, course impro	vement etc.	udents.	
4. Use o		hodologies; updat	ing of subject content, course impro	vement etc.	udents.	
4. Use o	f participatory and innovative teaching-learning met ination duties (Invigilation; question paper setting, e	hodologies; updat	ing of subject content, course impro	vement etc.		
4. Use o 5. Exam	f participatory and innovative teaching-learning met ination duties (Invigilation; question paper setting, e	hodologies; updat valuation/assess	ing of subject content, course impro- nent of answer scripts) as per allotn Description Lesson פומה, בא פומה קיב	self-Assessment Score (to be filled	Verified API Score (1	
4. Use o 5. Exam Sr. No.	f participatory and innovative teaching-learning met ination duties (Invigilation; question paper setting, e Performance Indicator Excellent course file for the subject, teaching plan	hodologies; updat valuation/assessi Max points	ing of subject content, course impro nent of answer scripts) as per allotn Description Lesson פומה, במה פומה קיד קובה מהלעורות קובה אם הפיד נמה פומה	self-Assessment Score (to be filled by applicant)	Verified API Score (f official use)	
4. Use o 5. Exam Sr. No. 1.A	f participatory and innovative teaching-learning mot ination duties (Invigilation; question paper setting, e Performance Indicator Excellent course file for the subject, teaching plan displayed Conducting practical lab. / tutorials; work nicely	hodologies; updat valuation/assessi Max points 20	Description Lesson Plan, Lesson Plan, Lesson Plan, Lab plan are altached. Yes, conducting tab as per Lab Plan Feedback Asepared	vement etc. nent. Self-Assessment Score (to be filled by applicant) 18	Verified API Score (f official use)	
4. Use o 5. Exam Sr. No. 1A 1.8	f participatory and innovative teaching-learning mot ination duties (Invigilation; question paper setting, e Performance Indicator Excellent course file for the subject, teaching plan displayed Conducting practical lab. / tutorials; work nicely with lab innovations	hodologies; updat valuation/assessi Max points 20 20	Ing of subject content, course impro- nent of answer scripts) as per allotn Description Lesson Plan, Lab plan are altached, are altached, are altached, are back Arepared Yes, Remedicul classes taken	self-Assessment Score (to be filled by applicant)	Verified API Score (f official use)	
4. Use o 5. Exam Sr. No. 1.A 1.B 1.C	f participatory and innovative teaching-learning mot ination duties (Invigilation; question paper setting, e Performance Indicator Excellent course file for the subject, teaching plan displayed Conducting practical lab. / tutorials; work nicely with lab innovations Student Feedback outcome Remedial Classes OR Extra lectures for DSE	hodologies; updat valuation/assessi Max points 20 20 10	Description Lesson Plan, Lesson Plan, Lesson Plan, Lab plan are Yes, conducting readback Arepared Yes, Remedicu	self-Assessment Score (to be filled by applicant)	Verified API Score (f official use)	
4. Use o 5. Exam Sr. No. 1A 1.8 1.0 2.A	f participatory and innovative teaching-learning mot ination duties (Invigilation; question paper setting, e Performance Indicator Excellent course file for the subject, teaching plan displayed Conducting practical lab. / tutorials; work nicely with lab innovations Student Feedback outcome Remedial Classes OR Extra lectures for DSE students	Max points 20 20 4	Ing of subject content, course impro nent of answer scripts) as per allotn Description Lesson Plan, Lab Plan, arc alt ached, a	self-Assessment Score (to be filled by applicant)	Verified API Score (f official use)	
4. Use o 5. Exam Sr. No. 1.A 1.B 1.C 2.A 2.B	f participatory and innovative teaching-learning met ination duties (Invigilation; question paper setting, e Performance Indicator Excellent course file for the subject, teaching plan displayed Conducting practical lab. / tutorials; work nicely with lab innovations Student Feedback outcome Remedial Classes OR Extra lectures for DSE students Content beyond syllabus Preparation and Imparting of knowledge /	hodologies; updat valuation/assessi Max points 20 20 10 4 6	Ing of subject content, course impro nent of answer scripts) as per allotn Description Lesson Plan, Lab plan are and changed and Yes, conducting Tab as per Lab Plan Feedback Arepared Yes, Remedical classes taken Beyond stillabul. Remoded as per knowledge as per curriculum. Enrichment by Proynding resource	self-Assessment Score (to be filled by applicant) 18 18 08 02 05 05 08	Verified API Score (f official use) 18 18 08 02 02	
4. Use o 5. Exam Sr. No. 1A 1.B 1.C 2.A 2.B 3.A	f participatory and innovative teaching-learning met ination duties (Invigilation; question paper setting, e Performance Indicator Excellent course file for the subject, teaching plan displayed Conducting practical lab. / tutorials; work nicely with lab innovations Student Feedback outcome Remedial Classes OR Extra lectures for DSE students Content beyond syllabus Preparation and Imparting of knowledge / instruction as per curriculum; syllabus enrichment by providing additional	hodologies; updat valuation/assessi Max points 20 20 20 10 4 6 10	Ing of subject content, course impro- nent of answer scripts) as per allotn Description Lesson Plan, Lab Plan, are all ached,	self-Assessment Score (to be filled by applicant) 18 18 18 08 02 05 05 08 08 08 04-	Verified API Score (f official use) 18 18 08 02 04 08	
4. Use o 5. Exam Sr. No. 1A 1B 1.C 2.A 2.B 3.A 3.8	f participatory and innovative teaching-learning met ination duties (Invigilation; question paper setting, e Performance Indicator Excellent course file for the subject, teaching plan displayed Conducting practical lab. / tutorials; work nicely with lab innovations Student Feedback outcome Remedial Classes OR Extra lectures for DSE students Content beyond syllabus Preparation and Imparting of knowledge / instruction as per curriculum; syllabus enrichment by providing additional resources to students	hodologies; updat valuation/assessi Max points 20 20 20 10 4 6 10 10	Ing of subject content, course impro nent of answer scripts) as per allotn Description Lesson Plan, Lab plan are and changed and Yes, conducting Tab as per Lab Plan Feedback Arepared Yes, Remedical classes taken Beyond stillabul. Remoded as per knowledge as per curriculum. Enrichment by Proynding resource	vement etc. nent. Score (to be filled by applicant) 18 18 08 02 05 09 08 04- 04	Verified API Score (f official use) 18 18 08 02 04 08 08	
4. Use o 5. Exam Sr. No. 1A 1B 1C 2A 2.B 3A 3.8 4A	f participatory and innovative teaching-learning met ination duties (Invigilation; question paper setting, e Performance Indicator Excellent course file for the subject, teaching plan displayed Conducting practical lab. / tutorials; work nicely with lab innovations Student Feedback outcome Remedial Classes OR Extra lectures for DSE students Content beyond syllabus Preparation and Imparting of knowledge / Instruction as per curriculum; syllabus enrichment by providing additional resources to students Number of ICT Based Teaching material	hodologies; updat valuation/assessi Max points 20 20 20 10 4 6 10 10 5	Ing of subject content, course impro- nent of answer scripts) as per allotn Description Lesson Plan, Lab Plan, are all ached,	self-Assessment Score (to be filled by applicant) 18 18 18 08 02 05 05 08 08 04-	Verified API Score (f official use) 18 18 08 02 04 08 08 08	
4. Use o S. Exam Sr. No. 1A 1.B 1.C 2.A 2.B 3.A 3.8 4.A 4.B	f participatory and innovative teaching-learning met ination duties (Invigilation; question paper setting, e Performance Indicator Excellent course file for the subject, teaching plan displayed Conducting practical lab. / tutorials; work nicely with lab innovations Student Feedback outcome Remedial Classes OR Extra lectures for DSE students Content beyond syllabus Preparation and Imparting of knowledge / instruction as per curriculum; syllabus enrichment by providing additional resources to students Number of ICT Based Teaching material Number of Interactive Courses	hodologies; updat valuation/assessi 220 20 20 10 4 6 10 10 5 5 5	nent of answer scripts) as per allotn Description Lesson Plan, Lab plan are and changed are and changed and Yes, conducting Tab as per Lab Plan Feedback Arepared Yes, Remedical classes taken Beyond stilcibus Knooledge as per curriculum Enrichmont by providing resource Yes, Teaching mut- Yes, internutive class	vement etc. nent. Score (to be filled by applicant) 18 18 08 02 05 09 08 04- 04	Verified API Score (f official use) 18 18 08 02 04 08 08 04 04	
4. Use o S. Exam Sr. No. 1A 1B 1C 2A 2.B 3A 3.B 4A 4.B 4.C	f participatory and innovative teaching-learning met ination duties (Invigilation; question paper setting, e Performance Indicator Excellent course file for the subject, teaching plan displayed Conducting practical lab. / tutorials; work nicely with lab innovations Student Feedback outcome Remedial Classes OR Extra lectures for DSE students Content beyond syllabus Preparation and Imparting of knowledge / instruction as per curriculum; syllabus enrichment by providing additional resources to students Number of Interactive Courses Effective use of MOODLE	hodologies; updat valuation/assessi Max points 20 20 20 10 4 6 10 10 5 5 5 5 10	nent of answer scripts) as per allotn Description Lesson Plan, Lesson Plan, Lesson Plan, Tesponducting Tesponducting Tesponducting Feedback Prepared Yes, Remedicil classes taken Beyond stilated Knooledge as per cursticutum. Ensichment by Providing resource Yes, Teaching mut- Tes, interautive day	vement etc. nent. Self-Assessment Score (to be filled by applicant) 18 08 02 05 08 04 04 04 08 12	Verified API Score (1 official use) 18 18 08 02 04 08 08 04 04 04 08	
4. Use o S. Exam Sr. No. 1A 1B 1C 2A 2.B 3.A 3.8 4.A 4.B 4.C 5.A	f participatory and innovative teaching-learning met ination duties (Invigilation; question paper setting, e Performance Indicator Excellent course file for the subject, teaching plan displayed Conducting practical lab. / tutorials; work nicely with lab innovations Student Feedback outcome Remedial Classes OR Extra lectures for DSE students Content beyond syllabus Preparation and Imparting of knowledge / instruction as per curriculum; syllabus enrichment by providing additional resources to students Number of Interactive Courses Effective use of MOODLE At Institute Level	hodologies; updat valuation/assessi Max points 20 20 20 20 4	nent of answer scripts) as per allotn Description Lesson Pian, Lab Pian, are allotn Yes, anducting Yes, anducting Yes, Remedial classes taken Beyond stitchur Knooledge as per knooledge as per curriculum. Enrichment by providing resource Yes, Teaching mut- Yes, interautive day	vement etc. nent. Self-Assessment Score (to be filled by applicant) 18 08 02 05 08 04 04 04 08 12	Verified API Score (f official use) 18 18 08 02 04 08 08 04 04 08 04 08 10	

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 core 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 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 sponcered project.	4	4
1.B	Industry tour / visit, Visit to technical Exhibition	4	Azzanged Induma	4	4
1.C	Arranged the invited talks / Expert lecturers at Department / Institute level	4	Areanged Experts	4	4
1.D	VAP (Value addition training Program) conducted by a stalf 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	and extension work	2	2
2.A	Institute level Responsibilities (Deans/COE: 05, Heads:3, other:02)	5	Dean Administrance	4	3
2.8	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.	З	3
3.A	Participation in short term training courses, curriculum development, training courses, talks, lectures	5	STTP Raticipated. talks & lectures. conductd.	3	3
3.8	Membership of professional associations committees, Boards of Studies, editorial committees of journals / institutional publications.	5	Member of JSTE, IEANG, springer Portever	3	3
3.C	Participation in subject associations, conferences, and seminars without paper presentation.	5	Rosticipation in conference, 5 seminars.	3	3
	Total Score	50			
	Minimum API Score Required	20		35	24

Figure 5.8.2.b Performance Appraisal Form Page 2

	CATEGORY-III	RESEARCH AND AG	ADEMIC CONTRIBUTION	s	
harding	planation: Based on the teacher's self-assessment, AP by teachers from this category is different for differen verifiable criteria and will be finalized by the screenin	t levels of promotion	and between university ar	contributions. The minim ad colleges. The self-assess	um API score ment score will be
. Researc	h Papers published in:				
Researc	h Publications(books, chapters in books, other than rel	ereed Journal articles)		
RESEAR	CH PROJECTS				
RESEAR	CH GUIDANCE				
	NG COURSES AND CONFERENCE /SEMINAR/WORKSHOP				
evelopm B. Pape	esher courses, Methodology workshops, Training, Teac ent Program, Faculty Development Programs (Max: 30 ers in Conferences/ Seminars/ workshops etc.** ted lectures or presentations for conferences/ symposi	points)	ion Technology Programs, Si	ft Skills	
Sr. No.	Performance Indicator	Max points	Description	Self-Assessment Score (to be filled by applicant)	Verified API Score (for official use)
1.4	Refereed Journals *	20/ 2 publication	1	10	0
1.8	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	20 /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.	13/hole author, and 3/ chapter is edited books	-	-	-
2.0	Subject Books by Other local publishers with ISBN/ISSN numbers.	10/ sole author, and 2 / chapter in edited books	-	-	-
2.D	Chapters contributed to edited knowledge based volumes published by International Publishers	5 /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
3.8	Consultancy Projects carried out / ongoing: Amount mobilized with upto Rs.15,000/-	30 consultancy	1	10	10
3.C	Completed projects Quality Evaluation: Completed project Report(Acceptance from funding agency)	7/eech major project and 5 Jeach minor project	2	٥6	6
3.D	Projects Outcome / Outputs: Patent/Technology transfer/ Product/Process	7 / each state level output or patent /14 /each for	-	_	

Figure 5.8.3.b Performance Appraisal Form Page 3

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Ö

A.	M.Tech/M.Phil- Degree awarded only	2/each	Yes	2	2
	Ph.D.				
в	a) Degree awarded	4/each	Yes	4-	4
	b) Thesis submitted	1/each			
	a) Not less than two weeks duration	2/esch			
A	b) One week duration	S/each	2	10	10
	Participation and Presentation of research papers (oral/poster) In				
	a) International conference	8 each	1	8	8
i.B	b) National conference	S/ each	1	6	6
	c) Regional/State level	4/1000	_	-	12
	d) Local – University/College	2/each	1	2	2
_	a) National level	5/each	-	-	
5.C	b) State level	2/each	2	4	4

*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: SATAPA-

Enabort of Faculty

Recommendation by screening team (Academic Monitoring Committee): Faculty member is aurren innived in teaching learning process need to improved in book chapters publications.



Head of Department

noi 2 Registrar

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Figure 5.8.4.b Performance Appraisal Form Page 4

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

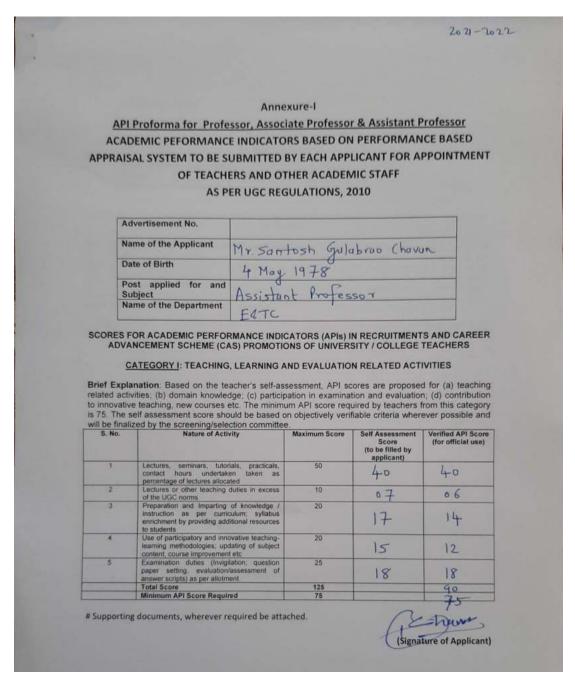


Figure 5.8.5 Performance Appraisal Form Page 1

	dvertisement No.				
N	ame of the Applicant	Mr. Sunt	tosh Gulab	van Chrivan	
D	ate of Birth	4 May	1978	irao Chavan	
	ost applied for and fubject	0	nt Profess	50%	
N	ame of the Department	ELTC	the miles,		
It will be no carried out required (1	nd extension activities; and teachers for eligibility for pr ticed that all teachers can ea only by one or a few teacher 5) in this category to accrue	omotion is 1 arn scores fro rs. The list of to all teach	development rela 5. A list of items a om a number of it f activities is broad	ated contributions. and proposed scor ems, whereas son d enough for the m	res is given below ne activities will be ninimum API score
It will be no carried out required (1	ticed that all teachers can eachers	omotion is 1 arm scores fro s. The list of to all teach nd will be fin.	development rela 5. A list of items a om a number of it f activities is broad	ated contributions. and proposed scor ems, whereas son d enough for the m e self-assessmen ening/selection co Self Assessment Score (to be filled by	The minimum AP res is given below ne activities will be ninimum API score
t will be no carried out required (1 based on o S. No.	Student related co-curricular, e through NSS/NCC and oth cultural activities (such as e	omotion is 1 arn scores fir rs. The list of e to all teach nd will be fin.	development rela 5. A list of items a om a number of it f activities is broad iers. As before, th alized by the scre	ated contributions. and proposed scor ems, whereas son d enough for the m he self-assessmen ening/selection co Self Assessment Score	The minimum AP res is given below ne activities will be ninimum API score at score should be mmittee.
t will be no carried out required (1 based on o S. No. 1	Student related co-curricular, e field based activities Student related co-curricular, e field based activities (such as e through NSS/NCC and oth cultural activities, subject rel advisement and counseling) Contribution to Corporate management of the depa institution through participation and administrative comm responsibilities.	arn scores fm s. The list of to all teach nd will be fin extension and xtension work er channels, ated events, life and in academic ittees and	development rela 5. A list of items a om a number of it f activities is broad ers. As before, th alized by the scre Maximum Score	ated contributions. and proposed scor ems, whereas son d enough for the m he self-assessment ening/selection co Self Assessment Score (to be filled by applicant)	The minimum AP res is given below ne activities will be ninimum API score tt score should be mmittee. Verified API Score (for official use)
t will be no carried out required (1 based on o S. No.	Student related co-curricular, e field based activities (such as through NSS/NCC and oth cultural activities (such as through NSS/NCC and oth cultural activities, subject rel advisement and counseling) Contribution to Corporate management of the depa institution through participation and administrative comm	omotion is 1 arn scores fm rs. The list of e to all teach nd will be fin. extension and xtension work er channels, aled events, life and in academic intees and titles (such as rences, short is, lectures, listemination	development rela 5. A list of items a om a number of it f activities is broad ers. As before, th alized by the scre Maximum Score 20	ated contributions. and proposed scor ems, whereas son d enough for the m e self-assessmen ening/selection co Self Assessment Score (to be filled by applicant)	The minimum AP res is given below ne activities will be ninimum API score it score should be mmittee. Verified API Score (for official use)

Figure 5.8.6 Performance Appraisal Form Page 2

	Advertisen	nent No.					
	Name of th	e Applicant		- 1 - 6 - 1 - 1		_	
	Date of Bir		Mr.	Santosh Gulabi	rao Chavan		
		lied for and	4	May 1978			_
	Subject	e Department	As	Santosh Gulabo May 1978 sistant Profes	SDY		
	Name of th	e Department		ITC			
	C	ATEGORY-III: R	ESEA	RCH AND ACADEMIC	CONTRIBUTIO	NS	
promoti	on and between	ITTUITI API SCORE I	required leges. mmittee fcultur	-assessment, API scores a by teachers from this ca The self-assessment score Faculties of Languages Arts/Humanities/Social Sciences/Library/	stononi in difforoi	at for difford	int lougle of
III A	Research	cal Sciences		Physical education/Management	teacher position	Score (to be filled by applicant)	official use)
	Papers published in:	Non-refereed	but	Refereed Journais* Non-refereed but	15 / publication		NIL
		recognized reputable journa periodicals, ISBN/ISSN numb	and Is and having ers.	recognized and reputable journals and periodicals, having ISBN/ISSN numbers.	TO / Publication	-	NIL
	Descent	Conference proce as full papers (Abstracts not included)	to be	Conference proceedings as full papers, etc. (Abstracts not to be included)	10/ publication	1	NIL
	Research Publications(bo oks, chapters in books, other than refereed journal articles)	Books Publishe	lishers	Text or Reference Books Published by International Publishers with an established peer review system	50 /sole author, 10 /chapter in an edited book	1	
		Subjects Book: National publishers/State Central Publications ISBN/ISSN number	level and Govt. with	Subject Books by / national level publishers/State and Central Govt Publications with ISBN/ISSN numbers.	25 /sole author, and 5/ chapter in edited books	1	NIL
		Subject Books by local publishers ISBN/ISSN number	Other with	Subject Books by Other local publishers with ISBN/ISSN numbers.	15 / sole author, and 3 / chapter in edited books	_	
		Chapters contribu edited knowledge volumes publishe International Publis	based d by shers	Chapters contributed to edited knowledge based volumes published by International Publishers	10 /Chapter	-	
		and with numbe national international directo	by level with mbers rs of and	Chapters in knowledge based volumes in Indian/National level publishers with ISBN/ISSN numbers and with numbers of national and international directories	5 / Chapter	-	
II (C) S	ESEARCH PRO.	(a) Major Pri		Major Projects amount	20 /each		
	rojects carried	amount mobilized grants above 30.0 f	akhs	mobilized with grants above 5.0 lakhs	Project	-	HIL
		(b) Major Pro amount mobilized grants above 5.0 up to 30.00 lakhs	with lakhs	Major Projects Amount mobilized with minimum of Rs. 3.00 lakhs up to Rs. 5.00 lakhs	15 /each Project	1	MIL

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 takh)	10/each Project	-	MIL
(ii) (C)	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	_	MIL
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	-	HIL
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	-	NIL
III (D)	RESEARCH GUI	DANCE		level,		1
III (D) (i)	M.Phil.	Degree awarded only	Degree awarded only	3 /each candidate	-	1
III (D) (ii)	Ph.D	Degree awarded	Degree awarded	10 /each candidate	_	TINT
		Thesis submitted	Thesis submitted	7 /each	_	1
III(E)	TRAINING COUR	SES AND CONFERENCE	SEMINAR/WORKSHOP PAP	candidate		<u> </u>
III(E)	Refresher	(a) Not less than two	(a) Not less than two	20/each		
(1)	courses, Methodology workshops, Training, Teaching- Learning- Evaluation Technology Programmes, Soft Skills development Programmes, Faculty Development	weeks duration (b) One week duration	weeks duration (b) One week duration	10/each	0	10
III(E) (ii)	Programmes (Max: 30 points) Papers in Conferences/ Seminars/ workshops etc.**	Participation and Presentation of research papers (oral/poster) in	Participation and Presentation of research papers(oral/poster) in		1) IH
	010	a) International conference	a) International conference	10 each	-	1
		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	-	
lll(E) (iv)	Invited lectures or presentations for conferences/ symposia	(a) International	(a) International	10 /each	-	J
		(b) National level	(b) National level	5	-	NTI
* If a public the public tote: The elevant uthor/su hared e	(r) indexed journa actor between 2 a aper presented in cation (III (a)) and he API for joint p category of pu upervisor/mentor qually by all othe	is – by 5 points; (ii) pape and 5 by 15 points; (iv) pape of Conference/Seminar is d not under presentation publications will have to blication by the conce of the teacher would sha	be calculated in the follo rned teacher, the first/P are equally 60% of the total	een 1 and 2 by 10 ween 5 and 10 by proceedings, the p wing manner. Of	points; (iii) 25 points. oints would the total so	papers with d accrue for core for the

Figure 5.8.8 Performance Appraisal Form Page 4

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	API Proforma for Profe				
	CADEMIC PEFORMANC				
APPT			THER ACADEN		POINTWENT
			SULATIONS, 2		
	Advertisement No.				
	Name of the Applicant	Dayan	and Bair	200 Jugta	p
	Date of Birth	OR TU	1 1986	0	
	Post applied for and Subject	Asticla	y 1986 nt profess	102 .	
	Name of the Department	a second s			
	Name of the Department ES FOR ACADEMIC PERFOR DVANCEMENT SCHEME (CA CATEGORY I: TEACHING	E-4 RMANCE INDIG	TG CATORS (APIS) I ONS OF UNIVER	N RECRUITMENT SITY / COLLEGE	TEACHERS
A Brief E related to inno is 75. T	ES FOR ACADEMIC PERFOR DVANCEMENT SCHEME (CA <u>CATEGORY I: TEACHING</u> Explanation: Based on the te activities, (b) domain knowled vative teaching, new courses o he self assessment score sho	E-4 RMANCE INDIG AS) PROMOTIO 6, LEARNING A acher's self-as dge; (c) particip dge; (c) particip etc. The minimi build be based of	TG CATORS (APIs) I DNS OF UNIVER UND EVALUATIO sessment, API sc pation in examina um API score req on objectively veri	N RECRUITMENT SITY / COLLEGE IN RELATED ACT cores are propose tion and evaluatio uired by teachers	TEACHERS IVITIES d for (a) teaching n; (d) contribution from this category
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Brief E related to inno is 75. T will be 1	ES FOR ACADEMIC PERFOR DVANCEMENT SCHEME (CA CATEGORY I: TEACHING Explanation Based on the te activities, (b) domain knowled vative teaching, new courses of the self assessment score sho finalized by the screening/sele a. Nature of Activi- Lectures, seminars, tutor contact hours undertake	RMANCE INDIG AS) PROMOTION AS) PROMOTION AS) PROMOTION AS LEARNING A acher's self-as dge; (c) particip etc. The minimus puld be based of ction committee vity	TG CATORS (APIs) I DNS OF UNIVER: UND EVALUATIO sessment, API so vation in examina um API score req on objectively veril s	N RECRUITMENT SITY / COLLEGE N RELATED ACT cores are propose tion and evaluatio uired by teachers i fiable criteria wher Self Assessment Score (to be filled by	TEACHERS IVITIES d for (a) teaching n: (d) contribution from this category ever possible and Verified API Score
A Brief E related to inno is 75. T will be 5. No 1 2	ES FOR ACADEMIC PERFOR DVANCEMENT SCHEME (CA CATEGORY I: TEACHING Explanation: Based on the te activities, (b) domain knowled vative teaching, new courses of the self assessment score sho finalized by the screening/sele a. Nature of Activi- Lectures, seminars, totor	CHARMANCE INDIG AS) PROMOTION IS, LEARNING A acher's self-as dge: (c) particle etc. The minime yold be based of ction committee vity	CATORS (APIs) I DNS OF UNIVER: UND EVALUATIO sessment, API sc pation in examina um API score req on objectively veril a. Maximum Score 50 10	N RECRUITMENT SITY / COLLEGE N RELATED ACT cores are propose tion and evaluatio uired by teachers fiable criteria wher Self Assessment Seore (to be filled by applicant)	TEACHERS IVITIES d for (a) teaching n; (d) contribution from this category rever possible and Verified API Score (for official use)
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A Brief E related to inno is 76. T will be 1 5. N 1 2 3 4	ES FOR ACADEMIC PERFOR DVANCEMENT SCHEME (CA CATEGORY I: TEACHING Explanation Based on the te activities, (b) domain knowled vative teaching, new courses of the self assessment score sho linalized by the screening/sele a. Nature of Acth Lectures, seminars, tutor contact hours undertake percentage of lectures alloca Lectures or other teaching of of the UGC norms Preparation and Imparting instruction as per curing Preparation and Imparting instruction as per curing budgents Use of participatory and inno learning methodologies, upd content, course improvement	RMANCE INDIG AS) PROMOTION AS) PROMOTION AS) PROMOTION AS A COMPARIANCE AND A A CHARTS AND A A C	CATORS (APIs) I DNS OF UNIVER: UND EVALUATIO sessment, API so pation in examina um API score req on objectively verif Maximum Score 50 10 20 20	N RECRUITMENT SITY / COLLEGE IN RELATED ACT cores are propose tion and evaluatio uired by teachers is fiable criteria when Self Assessment Score (to be filled by applicant) 30	TEACHERS IVITIES d for (a) teaching n; (d) contribution from this category ever possible and Verified API Score (for official use) 30 08
A Brief E related to inno is 75. T will be 1 1 2 3	ES FOR ACADEMIC PERFOR DVANCEMENT SCHEME (CA CATEGORY I: TEACHING Explanation: Based on the te activities: (b) domain knowled valive teaching, new courses of the self assessment score sho finalized by the screening/selie by Nature of Activi- contact hours undertak percentage of lectures alloca Lectures, seminars, totor contact hours undertak percentage of lectures alloca Lectures or other teaching of the UGC norms Preparation and Imparting instruction as per curic enrichment by providing add to students Use of participatory and inno learning methodologies, upd	CHARMANCE INDIG AS) PROMOTION IN A SUBJECT OF A CALEARNING A acher's self-as dge: (c) participation etc. The minime yild be based of ction committee vity itals, practicals, en taken as ted duties in excess of knowledge / zulumal resources ovative teaching- tating of subject tetc taken question assessment of	CATORS (APIs) I DNS OF UNIVER: UND EVALUATIO sessment, API sc pation in examina um API score req in objectively veril 8. Maximum Score 50 10 20	N RECRUITMENT SITY / COLLEGE IN RELATED ACT cores are propose tion and evaluatio uired by teachers is fiable criteria when Self Assessment Score (to be filled by applicant) 30 08 15	TEACHERS IVITIES d for (a) teaching n; (d) contribution from this category ever possible and Verified API Score (for official use) 30 08 08

Figure 5.8.9 Performance Appraisal Form Page 1

	Advertisement No.				
	Name of the Applicant	Dayan	and Bayi	200 Jagt	up
	Date of Birth				+
	Post applied for and Subject	Acci	July 198 stant Po	ferroz.	
	Name of the Department	847	C		
t will be arried o equired	by teachers for eligibility for noticed that all teachers can but only by one or a few teach (15) in this category to accr n objectively verifiable criteria	earn scores fro ners. The list of rue to all teach	om a number of its activities is broad ers. As before th	ems, whereas som I enough for the m is self-assessment	e activities will be inimum API score t score should be
S. No.	and the second	vity	Maximum Score	Self Assessment Score (to be filled by applicant)	Verified API Score (for official use)
	Student related co-curricular field based activities (such as through NSS/NCC and c cultural activities, subject	r, extension and s extension work other channels, related events,	Maximum Score 20	Score	
S. No.	Student related co-curricular field based activities (such as through NSS/NCC and c cultural activities, subject advisement and courseling) Contribution to Corpore management of the de institution through participat and administrative cor	r, extension and s extension work other channels, related events, ate life and epartment and ion in academic		Score (to be filled by applicant)	(for official use)
S. No.	Nature of Activ Student related co-curricular field based activities (such ar through NSS/NCC and c cultural activities, subject advisement and courseling) Contribution to Corpor management of the dr institution through participate	r, extension and s extension work other channels, related events, ate life and epartment and fon in academic multees and ctivities (such as nferences, short talks, lectures, dissemination	20	Score (to be filled by applicant) 1_5	(for official use)
S. No 1 2	Nature of Activ Student related co-curricular field based activities (such at through NSS/NCC and co cultural activities, subject advisement and courseling) Contribution to Corpor management of the do institution through participat and administrative cor responsibilities. Professional Development at participation in seminars, co term, training courses,	r, extension and settension work other channels, related events, ate life and epartment and ion in academic mmittees and ctivities (such as nferences, short ataks, lectures,	20 15	Score (to be filled by applicant) 1_5 1_0	(for official use)

Figure 5.8.10 Performance Appraisal Form Page 2

	Advertise	ment No.					-
	Name of th	he Applicant	-				
	Date of Bi	rth	2	ayunand Bay 08 Juby 19 Assistant Prot	1100 50	egterp	
	Post app	lied for and		08 July 19	86	•	
	Subject	e Department	0	Assistant prot	Fessor		
			1	Effc			
Brief Ex	planation Ba	sed on the teacher	's sel	RCH AND ACADEMIC f-assessment, API scores d by teachers from this of The self-assessment score	are proposed for	research an	id academic
De finaliz	ed by the scre APIs	ening/selection com	mitter	a.	will be based on	verifiable crit	eria and will
	Research	Engineering/Agri e/Veterinary Science/Sciences cal Sciences	/Medi	Arts/Humanitian/Paulat	Max. points for University and college teacher position	Self Assess- ment Score (to be filled by applicant)	Verified API Score (for official use)
F	Papers published in:	Refereed Journals	-	Refereed Journals*	15 / publication	00	08
		ISBN/ISSN numbe	aving	recognized and reputable journals and periodicals, having ISBN/ISSN numbers.		08	06
III (B) F		Conference proceet as full papers, (Abstracts not t included)	etc. b be	Conference proceedings as full papers, etc. (Abstracts not to be included)	10/ publication	-	-
F	Research Publications(bo ks, chapters in looks, other han refereed burnal articles)	Books Published International Publi with an established	share	Text or Reference Books Published by International Publishers with an established peer review system	50 /sole author; 10 /chapter in an edited book	-	-
			by level and Govt. with	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 (local publishers ISBN/ISSN numbers	Other with 5.	Subject Books by Other local publishers with ISBN/ISSN numbers	15 / sole author, and 3 / chapter in edited books	-	-
		Chapters contribute edited knowledge b volumes published international Publish	ased by ers	Chapters contributed to edited knowledge based volumes published by International Publishers	10 /Chapter	-	-
		publishers ISBN/ISSN num and with numbers national international director	by level with bers of and	Chapters in knowledge based volumes in Indian/National level publishers with ISBN/ISSN numbers and with numbers of national and international directories	5 / Chapter	1	-
II (C) Spi	SEARCH PRO	(a) Major Proj	ects	Major Projects amount	20 /each		
	/ ongoing	amount mobilized grants above 30.0 lai (b) Major Proje	with ths	mobilized with grants above 5.0 lakhs	Project	-	-
		(b) Major Proje amount mobilized of grants above 5.0 la up to 30.00 lakhs	with khs	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 takh)	Minor Projects (Amount mobilized with grants above Rs. 25,000 up to Rs. 3 lakh)		-	-
(ii) (C)	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	-	_
111 (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	-	_
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	-	
III (D)	RESEARCH GUI	DANCE		level.		
III (D)	M.Phil	Degree awarded only	Degree awarded only	3 /each		1
(i) III (D) (ii)	Ph.D	Degree awarded	Degree awarded	candidate 10 /each	-	-
		Thesis submitted	Thesis submitted	candidate 7 /each	-	-
III(E)	TRAINING COUP	SES AND CONFERENCE	SEMINAR/WORKSHOP PAP	candidate		
(i)	retresher	(a) Not less than two	(a) Not less than two	20/each		
14	courses, Methodology	(b) One week duration	(b) One week duration	10/each		-
	workshops, Training, Teaching- Learning- Evaluation Technology Programmes, Soft Skiilis development Programmes,				4	-
III(E) (ii)	Faculty Development Programmes (Max: 30 points) Papers in Conferences/	Participation and Presentation of research	Participation and			
	Seminars/ workshops etc.**	papers (oral/poster) in	Presentation of research papers(oral/poster) in		08	06
		a) International conference	a) International conference	10 each	-	-
		b) National c) Regional/State level	b) National c) Regional/State level	7.5 / each 5 /each	-	-
		d) Local -	d) Local -	3 / each	~	-
III(E) (iv)	Invited lectures or presentations	University/College (a) International	University/College (a) International	10 /each	-	-
	for conferences/ symposia	(b) Network I was			-	_
TOILOWS.	(I) Indexed journa	iis – dv 5 doints: (ii) dade	(b) National level API score for paper in re rs with impact factor betwee opers with impact factor between opers with impact factor between	on 1 and 2 by 10	an on London and still the	mented as papers with
•• If a p	aper presented in		published in the form of P			accrue for
author/s	category of pu	of the teacher would sha	be calculated in the follow med teacher, the first/Pri re equally 60% of the total	manipal multiple as	and all and the second	and a lot by a little of
# Suppo	orting documen	ts, wherever required	be attached.	(Sig	nature of	Applicant)

Figure 5.8.12 Performance Appraisal Form Page 4

CRITERION	Facilities and Technical Support	80
06		

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

S. N	Name of the	No. of	Name of the Important	Weekly	Name of	Technical M	lanpower
	Laboratory	students	equipment	utiliza-	the	suppo	ort
		per		tion	technical		
		setup		status	staff		
		(Batch				Designation	Qualific
		Size)					ation
1	ALEXANDER		1. Single power supply				
-	GRAHAM		2. Function generator				
	BELL(PW 213)		3. Spectrum Analyzer				
	$DELL(1 \lor 213)$		4. Digital Storage				
	[Communication		Oscilloscope	24 Hrs.	Mrs. A.S.	Laboratory	Diploma
	& Measurement		5. Dual trace CRO		Patel	Assistant	(E&TC)
	Lab]	20	6. Project Board				
	L		7. Temp. Transducer				
			Kit 8 Strain Cauga Kit				
			8. Strain Gauge Kit 9. Wein Bridge Kit				
			10. AM/FM trans				
			Receiver				
			11. PAM				
			12. DCL03 TDM PCM				
			kit				
			13. ADCL07 DPCM &				
			ADPCM kit				
			14.AM MOD/				
			DEMOD				
			15.Fiber Optic Kit				

Table 6.1: Details of Laboratories, Equipment and Technical Manpower

2	HEINRICH		1. Ats Antenna Trainer	24 Hrs.	Miss.	Laboratory	Diplom
	HERTZ (PW		Rt Radar Trainer		Y.Z.	Assistant	a
	210)		2. Advanced Motorized		Mujawar		(E&T
	[Antenna Wave		Antenna Trainer		_		C)
	Propagation &	20					,
	Microwave		3. Microwave Test				
	Engineering		Bench				
	Lab]						
3	ROBERT		1.20Mhz Dual Trace		Mrs. A.S.	Laboratory	Diplom
	ALLEN		CRO	24 Hrs.	Patel	Assistant	a
	PEASE(PW						(E&T
	208)		2.1MHz Function				C)
	[Basic Electronics		Generator				,
	Lab]		3.3MHz Function				
			Generator				
			4.10 MHz Function				
			Gen				
		20					
			5. Digital				
			Multimeter				
			6. LCR Meter				
			7. FPGA CPLD Trainer				
			Kit				
			8.LPC 2148 RTOS				
4	SALLY JEAN	20	1. Desktop Switch	24Hrs.	Miss.	Laboratory	B.com
	FLOYD(PW		2. PC		G.P.	Assistant	
	211)				Pawar		
	[Simulation Lab]			a (7-			
5	ROBERT		1.30MH Dual Trace CRO	24Hrs.	Miss.	Laboratory	Diplom
	NOYCE (PW		2. Digital Lab Trainer		Y.Z.	Assistant	а
	209)	20	Kit		Mujawar		(E&T
	[Digita]		3.20 MHZ CRO				C)
	[Digital		4. 3MHZ Function				
	Electronics		Generator				
	&Microprocessor		5.8085 Microprocessor				
	Lab]		kit 6. Stepper Motor Kit				
			1				

6	ROBERT		1. Single Power Supply				
	ALLEN PEASE(PW208) [Electronic Devices and Circuits Lab]	20	 2. Function Generator 3. Cathode Ray Oscilloscope 4. Digital Storage Oscilloscope 5. Colour TV Trainer 	24Hr.	Miss. G.P. Pawar	Laboratory Assistant	Diplom a (E&T C)

6.4 Project Laboratories

AGCE Satara

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	Utilization
	Facilities	
1.	Project Laboratory	UG students and Faculty members utilize them for their
	(APJ Abdul Kalam)	mini projects, major projects, and research activities.

Department of Electronics and Telecommunication Engineering

(05)

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

CRITERION	Continuous Improvement	50
07		

7.1 Actions taken based on the results of evaluation of each of the POs & PSOs (20)

PO/PSO	1	2	3	4	5	6	7	8	9	10	11	12	PS O	PS O
													1	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
Attainme	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
nt														

POs and PSOs Attainment Levels and Actions for improvement: 2021-22

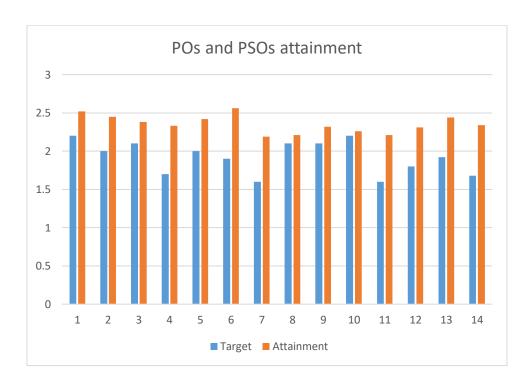


Figure. 7.1 a PO Target vs. PO Attainment for year 2022-23

PO's	Target Level	Attainment Level	Observations
		g knowledge: g problems	Apply knowledge of mathematics, science and engineering
PO1	2.2	2.52	• Target achieved. Due to knowledge of engineering fundamental concepts and problem solving.
Action	starting v 2: More en	vith prerequisi nphasis given	ged for all direct entry students to cover entire syllabus from ites. on assignment solving. and advanced learner.
PO2: Pi	roblem ana	alysis: Identify	y, formulate and analyze engineering problems
PO2	2.00	2.45	• 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 2 Action 3	2: Various 3: Students	E-Resources of	numerical problems in tutorials on problem solving has been recommended. solve different numerical assignments to identify, formulate
PO3: D processe	esign/deve	lopment of so t the specified	Dutions: Design and develop solution for systems or needs for health & safety, cultural, societal and
PO3	2.01	2.38	 Target achieved. Projects developed by students were havingconsideration for safety, environmental and social concerns. Audit Course like (Basic Human Rights) cover specific needs for health & safety, cultural, societal and environmental considerations.
Action health, s	2: Guest le afety, socie 3: NSS orga	ectures were a etal, and envir anizes regularl	ed to implement solutions for public health and safety. arranged on topics like Automation, IOT considering public conmental issues. y various events such as PUC camp, Women's Safety measure gram. Geo tagging .etc.

		0	of problems: Design and Conduct experiments as well as to ovide valid conclusions
PO4	1.7	2.33	Target achieved.
			• Problem Statements of Project undertaken are based
			on complex problems. Exposure of complex problem

	Analysis is given.	

Action 1: Guest lectures or hands on session can be conducted to improve knowledge to analyze problems.

Action 2: Technical events are organized in order to develop skills on solving real world problems (Hackathons, Project Competition etc. are organized).

PO5: Modern Tool Usage

PO5	2.00	2.42	Target achieved.
			Curriculum focuses on use more modern technical tools like Python, Embedded, VLSI etc.

Action 1: Online Guest lecture on Software arranged & online IOT lecture conducted. 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.

Action 3: Hands-on session can be conducted to learn new tools.

Action 4: Industrial visit, field visit & Industrial training/Internship conducted for exposure to the usage of modern tools.

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

Action 1: Students are encouraged to do more society needed projects. Projects based on environment, health care issues was emphasized

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.

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.

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

PO7	1.6	2.19	Target is achieved			
			Through various activities.			
Action 2: sided pape Action 3:	Action 1: Different initiatives such as tree plantation, no vehicle day, PUC camp organized. Action 2: Promoted paperless work through online submission to MOODLE and use of one sided paper for notices on notices board etc. Action 3: Students are encouraged to select their projects to reduce environmental impact by conserving energy, environmental friendly fluids / processes for sustainable Environment.					
PO8: Ethics: Carry out professional and ethical responsibility.						

PO8	2.1	2.21	Target achieved. University curriculum has less inclusion of courses related to ethics
			Need to focus on conduction of ethics related sessions.

Action 1: Separate GFM (Guardian Faculty Member) is appointed for batch of 20 Students for addressing personal issues, counselling and imbibe ethical values.

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

Action 3: Institute student have proper uniform which indirectly contribute to develop ethical values of uniformity.

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

			Target achieved.
PO9	2.1	2.32	Courses like seminar, project, business communication, project based learning courses involve individual and teamwork. Po attended to set target.

Action 1: Continues presentations are kept for seminar and project to enhance individual and team work.

Action 2: Tarunai-students annual cultural program is organized every year where in students actively participate to showcase their skill as an individual and as team.

Action 3: Industrial visit helps them to learn how to work as a team, gain practical knowledge.

PO10: Communication: Communicate effectively with engineering community and society at large

PO10	2.2		Target achieved. Skills required for documentation, communication, presentation during project and seminar is satisfactory but due to rural background there is scope for improvement.
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Action 1: In academic time table separate time slot allotted for soft skill improvement session. Special training team is appointed for the same.

Action 2: Student participated in various online soft skill development courses offered by various MOOCS platforms like NPTEL.

Action 3: Different cultural events, sports, social activities, project competition, industrial visits, Industrial training etc. contributed in students soft skill development.

PO11: Project management and finance: Demonstrate engineering and management principles to carry out projects in multidisciplinary environment, as a member/leader in a team.

PO11	1.6	2.21	Target achieved. 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.
------	-----	------	---

Action1: Department student participated in various competition project competition and
secured prizes.
Action? Department is having MOUs with various industries. Number of projects are

Action2: Department is having MOUs with various industries. Number of projects are Industry sponsored projects which helps student to learn project management and finance.

PO12: Lifelong learning: Recognize the need for and an ability to engage in life-long learning

			Target achieved. Students are learning fundamental courses in second year
PO12	1.8	2.31	Target achieved. 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.

Action1: Students are encouraged to do MOOC courses like NPTEL, Coursera etc.Action 2: Students participation in various activities like extracurricular, project competition developed their lifelong learning ability.

PSO1: Students will be able to analyze and design the electronics and telecommunication systems by understanding and applying the fundamental knowledge.

PSO1	1.92	2.44	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.
------	------	------	---

Action 1: Students are trained through various hands-on courses of respective domains.

Action 2: Students are oriented about various technological developments through induction program.

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.

	PSO2	1.68	2.34	Courses such as PCB Design, Embedded system, Digital Signal Processing, Numerical Methods involves simulation tools. •Project validation by using simulation tools.
ļ	Action 1: Various expert session are organized through industrial resource persons.			

Action 2: Students are oriented about entrepreneurship through skill development courses.