MCT's Rajiv Gandhi Institute of Technology, Mumbai Computer Engg.

Part A: Institutional Information

53	
Autonomous	
Affiliated	
✓ Trust	
Society	
Section 25 Company	
Any Other(Please Specify)	
5	□ Autonomous □ Affiliated □ Trust □ Society □ Section 25 Company

6 Other Academic Institutions of the Trust/Society/Company etc., if any:

0/24, 12.01 FW		7/24, 12.01 FM				
Name of Institutions	Year of Establishment	Programs of Study	Location			
Smt. Sushiladevi Deshmukh High School & Jr. College, Airoli, Navi Mumbai	2000	X and XII Arts and Commerce	Airoli, Navi Mumbai			
Smt. Sushiladevi Deshmukh Sr. College, Tal. & Dist. Latur	1990	UG Arts and Commerce	Latur			
Smt. Sushiladevi Deshmukh Jr. College, Tal. & Dist., Latur	1990	XII Arts and Commerce	Latur			
Deshmukh Vidyalaya, Savargaon, Tal. & Dist., Latur	1995	Secondary & higher secondary	Latur			
Sadguru Vidyalaya, Wanjarkheda, Tal. & Dist., Latur	1997	Primary, secondary & higher secondary	Latur			
Nilkantheshwar Vidyalaya, Nevali, Tal. & Dist., Latur	1991	XII Arts and Commerce	Latur			
Sant Dnyaneshwar Vidyalaya, Pimpalgaon, Tal. & Dist., Latur	1991	Primary, secondary & higher secondary	Latur			
Manjareshwar Hanuman Vidyalaya, Vilasnagar, Tal. & Dist., Latur	1991	Primary, secondary & higher secondary	Latur			
Ganeshnath Vidyalaya, Sarsa, Tal. & Dist., Latur	1991	Primary, secondary & higher secondary	Latur			
Shriram Vidyalaya, Mamadapur, Tal. & Dist., Latur	1991	Primary, secondary & higher secondary	Latur			
Smt. Sushiladevi Deshmukh Mahila Adyapak Vidyalaya, (D.Ed.), Tal.&Dist., Latur	1990	Primary, secondary & higher secondary	Latur			
MCT's College of Law, Airoli, Navi Mumbai	2006	UG Law	Navi Mumbai			
Abhinav Adhyapak Vidyalaya, (B.Ed.), Tal. & Dist., Latur	1990	UG	Latur			
Smt. Sushiladevi Deshmukh Mahila Sr. College, Tal. & Dist. Latur	2009	Degree programme	Latur			
Smt. Sushiladevi Deshmukh Mahila Jr. College, Tal. & Dist., Latur	2000	XII	Latur			
Manjareshwar Hanuman Primary School, Vilasnagar, Tal. & Dist. Latur	1991	Primary	Latur			
Rokadeshwar Vidyalaya, Khadgaon Road, Tal. & Dist. Latur	2000	Secondary & higher secondary	Latur			
Manjara Ayurvedic Mahavidyalaya, Tal. & Dist. Latur	2001	Degree college	Latur			
Ganeshnath Higher Secondary Vidyalaya, Sarsa, Tal.& Dist., Latur	2000	Higher Secondary	Latur			
MCT's College of Research & Education (B.Ed.), Navi Mumbai	2005	UG	Navi Mumbai			
MCT's Jr. College of Education (D.Ed.), Andheri, Mumbai	2006	Diploma	Mumbai			
Manjara Krishi Vigyan Kendra, Latur	2005	UG	Latur			
Goldcrest High ICSE School, Navi Mumbai	2009	Primary & Secondary	Navi Mumbai			

⁷ Details of all the programs being offered by the institution under consideration:

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	То	Program for consideration	Program for Duration
COMPUTER ENGIEERING	UG	1995	1995	40	Yes	120	Not accredited (specify visit dates, year)	25/03/2022	27/03/2022	Yes	4
Computer Network & Information Security		2014	2014	18	Yes	9	Not eligible for accreditation			No	2

Sanctioned Intake for Last Five Years for the Computer Network & Information Security			
Academic Year Sanctioned Intake			
2023-24	9		
2022-23	9		
2021-22	9		
2020-21	18		
2019-20	18		
2018-19	18		

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Computer Engg.
2	Under Graduate	Engineering & Technology	Mechanical Engg.

9 Total number of employees in the institution:

A. Regular* Employees (Faculty and Staff):

Manua.		2023-24		2022-23		1-22
Items	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	50	58	42	53	59	60
Faculty in Engineering (Female)	24	35	32	33	42	43
Faculty in Maths, Science & Humanities (Male)	6	6	6	7	7	8
Faculty in Maths, Science & Humanities (FeMale)	7	7	4	6	5	8
Non-teaching staff (Male)	63	65	65	67	62	65
Non-teaching staff (FeMale)	13	13	12	12	13	15

B. Contractual* Employees (Faculty and Staff):

		2023-24		2022-23		1-22
Items	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	0	0	0	0	0	0
Faculty in Engineering (Female)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (Male)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (FeMale)	0	0	0	0	0	0
Non-teaching staff (Male)	0	0	0	0	0	0
Non-teaching staff (FeMale)	0	0	0	0	0	0

10 Total number of Engineering Students:

Engineering and Technology- UG	Shift1 S	Shift2
Engineering and Technology- PG	Shift1 S	Shift2
Engineering and Technology- Polytechnic	Shift1 S	hift2
МВА	Shift1 S	Shift2
MCA	Shift1 S	Shift2

Engineering and Technology- UG Shift-1

Items	2023-24	2022-23	2021-22
Total no. of Boys	1452	1686	1658
Total no. of Girls	393	411	430
Total	1845	2097	2088

Engineering and Technology- PG Shift-1

Items	2023-24	2022-23	2021-22
Total no. of Boys	0	0	0
Total no. of Girls	0	0	0
Total	0	0	0

11 Vision of the Institution:

To create competent technical professionals with ethical behaviour and environment consciousness.

12 Mission of the Institution:

M1: To provide contemporary and cutting-edge technical education.

M2: To provide an ambience which nurtures research ideas in futuristic domains.

M3: To initiate project-based learnings and practical exposures.

M4: To direct faculties in research and consultancy / advisory roles.

M5: To establish strong linkages with well-known national and international technical institutes and industry.

M6: To promote a culture of imbibing environmental care.

M7: To aim to become an institute of aspiration and choice.

13 Contact Information of the Head of the Institution and NBA coordinator, if designated:

Head of the Institution			
Name	Dr. Sanjay Bokade		
Designation	Principal		
Mobile No.	9224496649		
Email ID	principal.rgit@mctrgit.ac.in		

NBA Coordinator, If Designated

Name	Dr. Kiran Chaudhari
Designation	Professor, Mechanical Engg.
Mobile No.	9930959964
Email ID	kiran.chaudhari@mctrgit.ac.in

PART B: Criteria Summary

Critera No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60	60.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	120	120.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120	120.00
4	STUDENTS' PERFORMANCE	150	123.42
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	146.20
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	46.42
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	1000	915

Part B

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

Total Marks 60.00

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

Total Marks 5.00

Institute Marks: 5.00

Vision of the institute	To create co	To create competent technical professionals with ethical behaviour and environment consciousness.										
	M1: To provi	ide contemporary and cutting-edge technical education.										
	M2: To provi	ide an ambience which nurtures research ideas in futuristic domains.										
	M3: To initia	ate project-based learnings and practical exposures.										
Mission of the institute	M4: To direc	et faculties in research and consultancy / advisory roles.										
	M5: To estab	olish strong linkages with well-known national and international technical institutes and industry.										
	M6: To prom	M6: To promote a culture of imbibing environmental care.										
	M7: To aim t	to become an institute of aspiration and choice.										
Vision of the Department		To create competent technical professionals in Computer Engineering with ethical behavior and environment consciousness.										
	Mission No.	Mission Statements										
	M1	To provide contemporary and cutting-edge technical education in Computer Engineering.										
	M2	To provide an ambience which nurtures research ideas in futuristic domains of Computer Engineering.										
Mission of the Department	M3	To initiate project-based learnings and practical exposures in the area of Computer Engineering.										
	M4	To direct faculties in research and consultancy / advisory roles.										
	M5	To establish strong linkages with well-known national and international technical institutes and industry.										
	M6	To promote a culture of imbibing environmental care.										
	M7	To aim to become the department of aspiration and choice.										

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

Total Marks 5.00

Institute Marks: 5.00

PEO No.	Program Educational Objectives Statements
PEO1	To prepare the Learner with a sound foundation in the mathematical, scientific and engineering fundamentals.
PEO2	To motivate the Learner in the art of self-learning and to use modern tools for solving real life problems.
PEO3	To equip the Learner with broad education necessary to understand the impact of Computer Science and Engineering in a global and social context.
PEO4	To encourage, motivate and prepare the Learners for Lifelong learning.
PEO5	To inculcate professional and ethical attitude, good leadership qualities and commitment to social responsibilities in the Learners thought process.

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

Total Marks 10.00

Institute Marks: 10.00

- A. The Vision, Mission and PEOs are published at:
 - 1. Institute website http://www.mctrgit.ac.in (http://www.mctrgit.ac.in/)
 - 2. Academic diary.
 - 3. Displayed in corridors
 - 4. Displayed outside the laboratories.
 - 5. Departmental Magazine.
 - 6. Department Information brochures
 - 7. Departmental Reports
 - 8. Parents Teacher Meeting
 - 9. Departmental Advisory Board Meeting
 - 10. Faculty Course File
 - 11. Lab Manuals
 - 12. Outside HOD cabin.
- B. Process of dissemination among stake holders

The vision, mission of the institute, department and PEOs are disseminated to the stakeholder of the programme i.e., management, Governing Body, faculty, students, staff, alumni, parents and employers through continuous interaction as shown in Figure 1.1. Faculties are made aware through discussion in regular departmental meetings and Departmental Advisory Board Meetings. Faculty decimates Vision, Mission of the institute and department and PEOs in their academic diary, Course file and same is communicated to students through classroom teaching, students meeting and academic counseling. The same are brought to notice of the employers through TPO, parents in parent- teaching meeting, alumni through alumni meet, information brochure. In addition to this, Faculty Development Programs (FDP), Symposiums on outcome-based education are organized regularly.

Students

- Orientation programs for first year students and their parents.
- Student's input will help in the program to introduce the elective courses to meet current trends.
- · Their placement will indicate the success of programme.
- Their feedback will help in improving the programme.
- Student's feedback is considered to introduce innovative teaching and learning methodologies.

Faculty 1 4 1

- They are involved in designing the curriculum and establishment of program outcomes.
- They are responsible for quality delivery of programme.
- · They define the course outcomes.
- · Faculty involves in various committees to check the consistency of the program.
- Faculty provides inputs for designing the program, PEOs/POs establishment, Course Objectives and assessment.

<u>Alumni</u>

- Through Alumni meets and convocation programs, feedback of alumni is taken.
- Their feedback helps in re-designing and improving the curriculum and infrastructure in the institute to meet recent trends in engineering.
- They are helpful in providing guidance and placement to their juniors.

Employer

- Represents the major end users of our graduates.
- Interaction with employers through Training and Placement Office.
- · Provides higher focus to the program on future data to create awareness with current industry.
- They provide industrial training and placement to the students and thus they are main users of the talent of the graduates.
- Their feedback helps in improving the contents of the programme.
- · Provides an input which bridges the gap between academics and industry.

Parents

Expects their wards in good professional career and higher education.

Professional bodies

- Help students to interact with industries.
- · Help in conducting seminars/workshops.

· Help the graduates to take up research work.

Stakeholders are made aware of Mission & Vision/PEOs through

- · Interaction with employers through Training and Placement Office.
- · Orientation programs for first year students and their parents.
- · Through Alumni meets and convocation programs.
- · Academic surveys.
- · Class room teaching.
- · Academic counseling.
- · Interaction with parents.

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

Total Marks 25.00

Institute Marks: 25.00

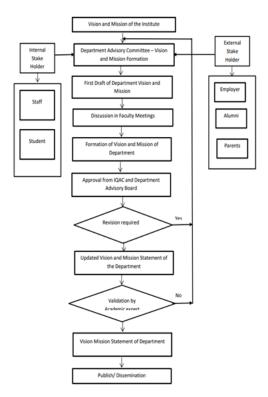


Figure 1.1: Process for defining Vision and Mission of the department

The Vision, Mission of the department are framed by the advisory board which comprises the internal and external stakeholders as members. The department advisory board is composed of the head of the department, senior faculties, management representative, alumni, industrial representative, parents and students. The department advisory board frames the Vision, Mission and PEOs after a careful consideration of feedback received from the Internal and External stakeholders. Subsequently the members discussed and verified the consistency of the framed Vision, Mission and PEOs with the institutional Vision and Mission. The approved version of Vision, Mission and PEOs will be published through all modes of dissemination. The Pictorial representation of the Process for defining the Vision and Mission is shown in fig 1.1

In establishing the vision and mission of the department, the following steps were followed:

- Step1: In the initial phase, the Head of the department along with the DAC members defines the vision and mission statements which are in alignment with the vision and mission of the institute
- Step 2: The vision and mission statements, defined as stated in step-1 are shared with faculty, students, alumni, management and IQAC for the feedback
- Step 3: The feedback so obtained by the stake holders in step-2 are discussed among DAC members before finalization
- Step 4: The new vision and mission statements (outcome of the DAC meeting) are placed before Advisory Board (Departmental) and IQAC for recommendation.
- Step 5: Once the vision and mission statements are verified, they are published on the website and other places.

Process for Defining the PEOs of the Department

Process for defining Program Educational Objectives of the program:

The program educational objectives are framed by the Department Advisory board after a careful consideration of feedback received from the internal and external stakeholders. The objective of the program is to produce globally competent Computer engineers possessing all-round skills is the prime objective of this program.

The Program Educational Objectives are established through a consultation process involving the core constituents such as students, alumni, industry, faculty and employers as shown in Figure 1.2. The PEOs are established through the following steps:

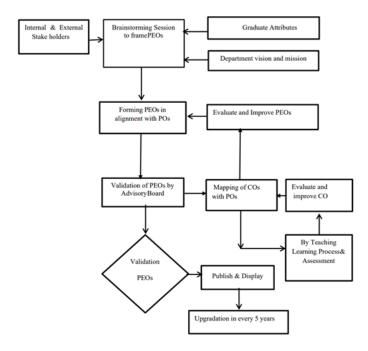
Step 1: Vision and Mission of the department are taken as basis to interact with various stakeholders and graduate attributes defined by NBA are also kept in view. The PEOs are initially defined considering the following:

- 1. Vision, mission statements of the institute/department, program outcomes
- 2. Feedback from alumni
- 3. Expectations of parents/aspirants of the program.

Step 2: The PEOs defined are discussed among faculty, current students, alumni, parents, departmental advisory board and members of DAC. The feedback from all of them is considered for refining the same.

Step 3: The PEOs from step 2 are put before IQAC and the departmental advisory board for discussion and feedback. Once the advisory board and IQAC approve the PEOs, they will be published.

Step 4: Attainment of the stated PEOs is checked through surveying views of employers of our students and alumni. Their views are considered while modifying PEOs in the next cycle.



1.2 Process for Defining the PEOs of the Department

Inputs considered for establishing the PEOs

Faculty interaction:

The members of the teaching faculty as course coordinators play an important role in establishing PEOs. They are responsible for generating, altering and analyzing all the activities related to the achievement of the course outcomes.

Alumni feedback:

Alumni are those who have intimate knowledge of the programme and are important in assessment of PEOs. Alumni feedback is obtained through alumni surveys. Alumni meet is conducted once in a year.

Employer feedback:

Corporate insight/performance of the graduates with other employees of the organization is through employer feedback.

PEOs of Computer Engineering Department are as per the Revised 2016 syllabus of Computer Engineering discipline, University of Mumbai. And we have decided to continue with the same PEOs for Revised 2019(C- scheme) syllabus.

1.5 Establish consistency of PEOs with Mission of the Department (15)

Total Marks 15.00 Institute Marks : 15.00

	M1	M2	МЗ	M4	M5	M6	M7	JUSTIFICATION
PEO 1	2	2	1					It is the pedagogical process where learner engage in reflective, critical thinking by Involving in projects and internship. Participating and publishing paper. Opting for higher studies.
PEO 2		2	2		1	1		Comprehensive education that encourages to gain knowledge that prepares • Use of Modern tools through virtual labs, NPTEL and course-era etc. • Participation in competition like Hackathon, Avishkar etc.
PEO 3	1	1	2	1	1	1		Influencing various aspects of life- Curriculum enhancement. E- learning. Interdisciplinary collaboration. Real world application. Workforce development. Environment Awareness.
PEO 4	2	2	2	1	2	2	1	Essential in a changing world where continuous adaptation and skill development are crucial. Approaches to foster a mindset of continuous learning Develop a growth mindset. Integrate real world application. Experimental & interdisciplinary learning. To motivate students to solve open ended questions.
PEO 5		_	2	1	2	2	2	To help learners develop a strong foundation of professional and ethical values , leadership qualities and commitment to social responsibilities- • Leadership workshops and seminars. • Peer Mentorship programs. • Incorporate literature and documentary ethics.

PEO Statements	M1		M2		М3		M4	M5	M6	M7
To prepare the Learner with a sound foundation in the mathematical, scientific and engineering fundamentals.	2	~	2	~	1 ,	~	- ~	- ~	- •	- •
To motivate the Learner in the art of self-learning and to use modern tools for solving real life problems.	-	~	2	~	2	~	- ~	1 ~	1 ~	- •
To equip the Learner with broad education necessary to understand the impact of Computer Science and Engineering in a global and social context.	1	~	1	~	2	~	1 •	1 🗸	1 🗸	- •
To encourage, motivate and prepare the Learners for Lifelong learning.	2	~	2	~	2	~	1 🗸	2 🗸	2 🕶	1 ~
To inculcate professional and ethical attitude, good leadership qualities and commitment to social responsibilities in the Learners thought process.	-	~	-	~	2	~	1 •	2 •	2 🕶	2 🗸

2.1 Program Curriculum (20)

2.1.1 State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mer



DEPARTMENT OF COMPUTER ENGINEERING

-	2	Programme Curriculum and Teaching-Learning Processes	(120)	
- 1			1	

2.1 Programme curriculum:

Institute is permanently affiliated to the University of Mumbai. It is mandatory to follow the syllabus prescribed by the University.

To meet the challenge of ensuring excellence in engineering education, the issue of quality needs to be addressed, debated and taken forward in a systematic manner. Accre

- The present curriculum is implemented for Second Year of Engineering from the academic year 2020-21. Subsequently this carried forwarded for Third Year and Final Year
- The curriculum revision is mainly focused on knowledge component, skill-based activities and project based activities. Self-learning opportunities are provided to learners. I
- The Principals/ HoD's/ Faculties of all the institute are required to motivate and encourage learners to use additional online resources available on platforms such as NPTEI

Curriculum is designed in such a manner so that it meets the POs and PEOs.

- The nature of the curriculum is based on continuous assessment which reduces the burden on the students as they have prepared for the curriculum during their internal as
- Electives are offered at Department level in V, VI, VII, VIII semester and Institute level electives in the VII and VIII semester. This provides a huge scope to choose from a vi
- Final year Projects contribute to the enrichment of knowledge of the students in the field of their choice as they can proceed with the projects of their choice The Institute re-

Program structure for Third Year Computer Engineering R19 'C' Scheme for TE Computer Engineering Sem V is shown in the figure 2.1 a

Program Structure for Third Year Computer Engineering UNIVERSITY OF MUMBAI (With Effect from 2021-2022)

Semester V

Course Code	Course Name			g Schen et Hours		Credits Assigned						
Code		Theo	ry	Prac	ct.	Theory	Prac	t.	Total			
CSC501	Theoretical Computer Science	3				3			3			
CSC502	Software Engineering	3				3			3			
CSC503	Computer Network	3				3			3			
CSC504	Data Warehousing & Mining	3				3			3			
CSDLO501x	Optional Course- I	3				3			3			
CSL501	Software Engineering Lab			2			1		1			
CSL502				2			1		1			
CSL503	Data Warehousing & Mining Lab			2		-	1		1			
CSL504	Ethies II			2*+	-2		2		2			
CSM501	Mini Project: 2 A		\perp	48			2		2			
	Total			14		15	07		22			
					Exan	nination Sc	heme					
				Theo	ry		Term Work	Pract &oral	Total			
Course Code	Course Name		nterns sessin		End Sem Exam	Exam. Duration (in Hrs)						
		Test 1	Test 2	Avg								
CSC501	Theoretical Computer Science	20	20	20	80	3	25		125			
CSC502	Software Engineering	20	20	20	80	3			100			
CSC503	Computer Network	20	20	20	80	3			100			
CSC504	Data Warehousing & Mining	20	20	20	80	3			100			
CSDLO501x	Department Level Optional Course -1	20	20	20	80	3			100			
CSL501	Software Engineering Lab						25	25	50			
CSL502	Computer Network Lab						25	25	50			
CSL503	Data Warehousing & Mining Lab						25	25	50			
CSL504	Business Comm. & Ethics						50		50			
CSM501	Mini Project : 2A						25	25	50			
	Total			100	400	-	175	100	775			

^{*} Theory class to be conducted for full class and \$ indicates workload of Learner (Not Faculty), students can form groups with minimum 2(Two) and not more than 4(Four). Faculty Load: lhour per week per four groups.

Figure 2.1 a. Sample Scheme for Computer Engineering TE Sem V

Program Structure for Third Year Computer Engineering UNIVERSITY OF MUMBAI (With Effect from 2021-2022)

Semester VI

Course	Course Name		ching Sontact H			Credits Assigned						
Code		Theory		Pract. Tut.		Theory	Pract	. 1	Total			
CSC601	System Programming & Compiler Construction	3		-		3	-		3			
CSC602	Cryptography & System Security	3				3			3			
CSC603	Mobile Computing	3		-		3			3			
CSC604	Artificial Intelligence	3				3			3			
CSDLO601x	Department Level Optional Course -2	3				3			3			
CSL601	System Programming & Compiler Construction Lab			2			1		1			
CSL602	Cryptography & System Security Lab			2			1		1			
CSL603	Mobile Computing Lab			2			1		1			
CSL604	Artificial Intelligence Lab			2			1		1			
CSL605	Skill base Lab Course: Cloud Computing			4			2		2			
CSM601	Mini Project Lab: 2B		\perp	4 ^{\$}	\perp		2		2			
	Total	15		16		15	08		23			
				I	xami	nation Sche		_				
				Theory			Term Work	Pract. &oral	Total			
Course Code	Course Name	Interna	al Asses	sment	End Sem Exa m	Exam.						
		Test 1	Test 2	Avg								
CSC601	System Programming & Compiler Construction	20	20	20	80	3			100			
CSC602	Cryptography & System Security	20	20	20	80	3			100			
CSC603	Mobile Computing	20	20	20	80	3			100			
CSC604	Artificial Intelligence	20	20	20	80	3			100			
CSDLO601x	Department Level Optional Course -2	20	20	20	80	3			100			
CSL601	System Programming & Compiler Construction Lab						25	25	50			
CSL602	Cryptography & System Security Lab						25		25			
CSL603	Mobile Computing Lab						25	-	25			
CSL604	Artificial Intelligence Lab						25	25	50			
CSL605	Skill base Lab Course: Cloud Computing						50	25	75			
CSM601	Mini Project :2B						25	25	50			
	Total			100	400		175	100	775			

Figure 2.1 b. Sample Scheme for Computer Engineering TE Sem VI

Program Structure for Computer Engineering

UNIVERSITY OF MUMBAI (With Effect from 2021-2022)

Department Optional Courses

Department Level Optional Courses	Semester	Code & Course
Department Level Optional Course -1	V	CSDLO5011: Probabilistic Graphical Models CSDLO5012: Internet Programming CSDLO5013: Advance Database Management System
Department Level Optional Course -2	VI	CSDLO6011: Internet of Things CSDLO6012: Digital Signal & Image Processing CSDLO6013: Quantitative Analysis

Figure 2.1 c. Department Level Optional Courses for Computer Engineerin

2.1.1 State the process used to identify extent of compliance of the Univer

A. Process used to identify extent of compliance of the University Curriculum for attaining the Program Outcomes and Program Specific Outcomes.

Process:

The MCTs Rajiv Gandhi Institute of Technology is affiliated to University of Mumbai. So our Course outcomes is as per the scheme and syllabus of affiliated university. Generally, CO's/ PO's, are not included in the curriculum provided by the affiliated university then the Institution makes additional efforts to impart such knowledge by covering aspects through

Formulation

· POs, as prescribed in NBA SAR ANNEXURE 1 for the undergraduate program, are followed for the program under consideration. Additionally, two PSOs are formulated.

Procedure for CO PO Mapping

Course Outcome Assessment and Attainment:

Each subject has Course outcomes (COs). These COs can be mapped with POs & PSOs based on Competencies and Performance Indicators given by AICTE Examination Ref

CO-PO Mapping:

POs give useful guidance at the program level for the curriculum design, delivery and assessment of student learning. However, they represent fairly high-level generic goals that

- 1. Identify Competencies to be attained: For each PO define competencies-different abilities implied by program outcome statement that would generally require different assi
- 2. Define Performance Indicators: For each of the competencies identified, define performance Indicators (PIs) that are explicit statements of expectations of the student learn

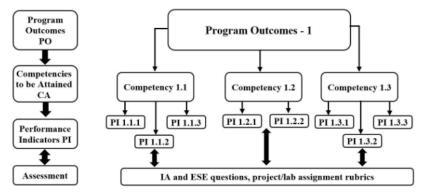


Figure 2.1 Connecting POs to Assessment

Improving Structure and Quality of Assessments

For improving the structure and quality of assessment in various engineering programs following points are taken into consideration:

- 1. In Indian engineering education system, written examinations play a major role in assessing the learning and awarding of grades to the student. Universities and colleges gi
- 2. Written examinations assess a very limited range of outcomes and cognitive levels. Particularly in the courses, where course outcomes (COs) cover a broad range of expec

3. As advised in AICTE Exam Reform Policy Document, assessment plans for each of the course in the program brings clarity to the following:

- a. Alignment of assessment with learning outcome of the course
- b. Level of learning (cognitive) student is expected to achieve
- c. Assessment method to be adapted

The Bloom's taxonomy framework to create the optimal structure of examination papers to test the different cognitive skills.

Procedure of Calculating CO PO Attainment:

Step 1: Formation of Domain Group / Mapping, Validation and Formation of Rubrics of CO PO as per syllabus content / Creation of Articulation Matrix / Specific remarks for CO PO MATRIX FOR CO PO MAPPING FOR COURSE:

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
COl	X	X	х	X								X		
CO2	X	X	X	X	X						X	X		
CO3	X	X	X	X	X	X	X	X			X	X		
CO4	X	X	X	X	X		X				X	X		
CO5	x	X	x	X							X	X		
CO6	X	X	X	X	X	X	X	X			X	X		

ARTICULATION MATRIX FOR SUBJECT / COURSE

(Assigning weightages as per curriculum)

High - 3

Moderate - 2

Low - 1

ATTAINMENT OF PO THROUGH COURSE OUTCOMES

CO/	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
PO														
CO1	3	2	1	2								2		
CO2	2	2	2	3	1						2	2		
CO3	2	3	3	3	2	2	1	2			2	2		
CO4	2	2	1	2	2		1				1	1		
CO5	1	1	1	1							2	2		
CO6	2	3	3	3	3	2	2	1			2	2		
AVG	2	2.17	1.83	2.33	2.00	2.00	1.33	1.50	-	-	1.80	1.83		

• Calculate the Average Value of PO through Course Outcomes

Average Value PO = Total of attainment level

Total No.01 COs mapped with PO

PROGRAM OUTCOME ARTICULATION MATRIX:

(After entering the Average values of Course Outcomes of all subjects of a Program)

Year	Sem.	Subject Code	Name of Subject	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2
	I	FEC101															
FE																	
	п	FEC201															
	III	CSC301															
SE																	
	IV	CSC401															
	v	CSC501															
TE		CSC502	Software Engineering	2.2	2	1.67	1.4	1.8	2	1	3	3	2	2	1	-	2
**	VI	CSC601															
	VII	CSC701															
BE																	
	VIII	CSC801															
Target Value																	

Calculate Average Value of PO of all subjects

Average Value PO =
$$\frac{Total\ of\ attainment\ level}{Total\ No.of\ subjects\ mapped\ with\ PO}$$

Calculate Average Value of PO of all subjects

Average Value PO = Total of attainment level

Total No.of subjects mapped with PO

Step 2: CALCULATION FOR DIRECT ATTAINMENT FOR CO PO MAPPING

- 1. Direct Tools:
- Internal Assessment I & II
- Assignments
- Tutorials
- Experiments
- Subject / Course Project
- Industrial Visits
- · Presentation
- Final University Examination (Subject / Oral /Practical)

CALCULATION OF COURSE OUTCOME ATTAINMENT LEVEL

Estimating the Levels wrt students marks	
Cut-off %	Level
No. of students having marks>=60%	3
No. of students having marks 50% to 59%	2
No. of students having marks 40% to 49%	1

Note: High Scoring subjects can elevate the attainment level with justification (If the results are observed consistently high, No failures or Number of failures are less, any other)

Enter the data of each student:

	IA	.1	I/	12	ASSIG	NMENT	EXPE	RIMENT	COURSE	UNIVER
Name of students	Q1	Q2	Q1	Q2	A 1	A2	E1	E2	PROJECT / IV / PRESENTATION	- SITY EXAM
Max Marks										
Student 1										
Student 2										
Student 3										
Student 100										
Total No. of										
students appeared										
Total No. of										
students scored above 60										
Total No. of students scored										
=>50 and <59										
Total No. of students scored										
=>40 and <49										
Mapping CO										All COs
Attainment Level										

Calculation of Attainment Level Ex.

If Total no of students are 100

Total No. of students scored above 60 = 50

Total No. of students scored above 50 and <59 = 25

Total No. of students scored above 40 and <49 = 25

Then Attainment Level = $(50 \times 3 + 25 \times 2 + 25 \times 1) / 100 = 2.25$

External Assessment 80% and Internal Assessment 20% Calculation

		Internal A	ssessment (2	20%)	External Assessment (80%)	80% of
Course Outcome	IA-I OR IA- II		Assignment	Internal Evaluation Average	University Evaluation	External+20% of internal examination
CO1	2.87	2.87	2.66	2.8	1.7	1.92
CO2	2.92	2.81	2.66	2.8	1.7	1.92
CO3	2.66		2.66	2.66	1.7	1.89
CO4	2.82		2.66	2.74	1.7	1.91
CO5			2.66	2.66	1.7	1.89
CO6			2.66	2.66	1.7	1.89

Articulation Matrix: (Converting Levels to Scores)

- Level 3 = Actual score
- Level 2 = Actual Score x 2 / 3
- Level 1 = Actual Score x 1 / 3

Actual	CO PO Attainment as per weightage									
Score	3	2	1							
1.89	1.89	1.26	0.42							
1.87	1.87	1.24	0.41							
1.79	1.79	1.20	0.40							
1.79	1.79	1.19	0.40							
1.92	1.92	1.28	0.43							
1.93	1.93	1.29	0.43							

DIRECT ATTAINMENT OF COURSE OUTCOMES WITH PO (Articulation Matrix gets converted to Score Based Matrix)

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1.89	1.26	0.42	1.26								1.26		
CO2	1.24	1.24	1.24	1.87	0.41						1.24	1.24		
СОЗ	1.2	1.79	1.79	1.79	1.2	1.2	0.4	1.2			1.2	1.2		
CO4	1.19	1.19	0.4	1.19	1.19		0.4				0.4	0.4		
CO5	0.4	0.43	0.43	0.43					-		1.28	1.28		
CO6	1.28	1.93	1.93	1.93	1.93	1.29	1.29	0.43			1.29	1.29		
AVG	1.2	1.31	1.04	1.41	1.18	1.25	0.70	0.82	-	-	1.08	1.11	-	-

DIRECT ATTAINMENT OF PROGRAM OUTCOMES (Considering all Subjects)

Year	Sem.	Name of Subject	PO1	PO2	РО3	PO4	PO5	PO6	PO7	P08	P09	P10	P11	P12	PSO1	PSO2
	I	FEC101														
		FEC102														
FE	II	FEC201														
		FEC202														
	III	CSC301														
		CSC302														
SE	IV	CSC401														
		CSC402														
	V	CSC501														
		CSC502	2.17	1.97	1.64	1.37	1.77	1.97	0.98	2.99	2.99	1.97	1.97	0.98	-	1.96
TE	VI	CSC601														
		CSC602														
	VII	CSC701														
		CSC702														
BE	VIII	CSC801														
		CSC802														
Avera																
Direc	t 80 %															

No of courses for that particular PO

Print

1.INDIRECT ATTAINMENT TOOLS:

- Program Exit Survey
- Employer Feedback: Rubrics is given in department
- Alumni Feedback: Rubrics is available in Academic Diary
- Parents Feedback: Rubrics is available in Academic Diary
- · Feedback from Industry

Rubrics of Indirect Attainment for all types of Feedback and Survey

Name of Alumni	PO1	PO2	РОЗ	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11	PO 12	PSO1	PSO2
Student 1	1		1		1		1			1		1		
Student 2	2	1	2		2		2			2		2		
Student 3	2	1	2		1		2			2		2		
Student 4	2	2	1				1			1		1		
Student 5	3						2			2		2		
Student 6	2		2							2		2		
Student 7														
Student 8	2	1	2		1		2			2		2		
Student 9	2	2	1				1			1		1		
Student 10	3						2			2		2		
Student 11	2		2							2		2		
Student 12	2	1	2		1		2			2		2		
Student 13	2	2	1				1			1		1		
Student 14	3						2			2		2		
Student 15	2		2							2		2		
Student 16	2	1	2		1		2			2		2		
Student 17	2	2	1				1			1		1		
Student 18	3						2			2		2		
Student 19	2		2							2		2		
Student 20	2	2	1				1			1		1		
Average	2.2	1.5	1.6	0.0	1.2	0.0	1.6	0.0	0.0	1.7	0.0	1.7		

RUBRICS FOR INDIRECT ATTAINMENT

Tools	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	P08	P09	P10	P11	P12	PSO 1	PSC 2
Program Exit Survey														
Employer Feedback														
Alumni Feedback														
Parents Feedback														

Feedback from							
Industry							
Average							
20% of Indirect Attainment							

INDIRECT ATTAINMENT OF PROGRAM OUTCOMES

For Calculation of Indirect attainment level of PO = $\frac{\text{Total of attainment Level}}{\text{No of Feedbacks for that particular PO}}$

OVERALL ATTAINMENT OF PROGRAM OUTCOMES

0.8 x Attainment Level of PO as per Direct + 0.2 x Attainment Level of PO as per Indirect

Program	РО	P08	P09	D40	P11	D42	PSO	PSO						
Outcomes	1	2	3	4	5	6	7	P06	PUS	P10	PII	P12	1	2
Direct Attainment														
Indirect Attainment														
Overall attainment														

PROGRAM EXIT SURVEY

(To be collected for BE Sem. VIII students)

Class: B.E. Div: Branch:

Name of the student: Roll No.:

PROGRAM OUTCOMES / PROGRAM SPECIFIC OUTCOMES

PO1: Engineering knowledge	PO8: Ethics
PO2: Problem analysis	PO9: Individual and Team Work
PO3: Design/development of solutions	PO10: Communication.
PO4: Conduct investigations of complex problems	PO11: Project Management and Finance
PO5: Modern tool usage	PO12: Life-long learning
PO6: The engineer and society	PSO1: Entrepreneur
PO7: Environment and sustainability	PSO2: Hobbies

As you have undergone through all the above courses from Sem I to Sem VIII, we request you to kindly fill Survey form. You are required to fill the level of attainment of Program Outcomes: High – 3 Moderate – 2 Low -1

You are requested to fill in mapped blocks with the above values.

Year	Sem.	Subject Code	Name of Subject	P O 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	P O 10	P O 11	P O 12	P S O1	P S O2
	I	FEC101	EM – I														
FE		FEC102															
FE	II	FEC201	EM – II														
	III	CSC301															
SE																	
J.L	IV	CSC401															
	V	CSC501															
TE																	
1.2	VI	CSC601															
	VII	CSC701															
BE																	
	VIII	CSC801															
Avera	age																

details of the content beyond the syllabus for the attainment of POs and PSOs

A. Formulation

Institution's Vision and Mission makes the foundation while establishing the Department Vision and Mission. Extensive involvement of all the stake holders through series of meeti

- · Institute level meetings of Academic Committees
- · Meetings with teaching staff
- · Meetings with students
- · Meetings with Alumni and Parents
- · Meetings with Department Advisory Board Committee

B. Assessment

Administrative system to assess the monitoring and the attaining of PEOs is now brought

in place and the system includes.

- 1. Internal Assessment by the Department Level committee for ensuring quality policies as per NBA requirements
- 2. Assessment by Cross-Departmental teams / Academic Audit
- 3. Review by Department Advisory Committee
- 4. Review by Alumni
- 5. Review by Parents
- 6. Review by Academic experts
- 7. Review by established Professional Bodies of high repute. Ex. CESS
- 8. Review by Institute's IQAC cell

Course Outcomes and Program Outcomes

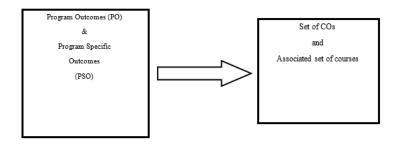
The curriculum of University has prescribed the COs and also the basic guidelines for affiliating Institutions to follow them. Additionally, POs as prescribed by NBA are take

A. Formulation

POs as prescribed in NBA SAR ANNEXURE 1 for the undergraduate program are followed for the program under consideration. Additionally, two PSOs are formulated.

B. Mapping

- 1. We recognized that POs are attained through the COs thus we determined the corresponding set of Cos
- 2. In order to map POs with COs Six domain groups were formed viz Basic Science & Engineering, Programming Algorithm, Data Science and Analytics, Computer Network a
- 2. Courses of the Program have been classified under these above Domains. The faculty members were divided as per their expertise in the respective domains. The mappin
- 3. Developed the Rubrics using the higher order in hierarchy on columns and aspects of mapping and rows as follows
- 4. Program Outcomes on columns and Course outcomes on rows. (Rubric mapping COs to POs).
- 5. Course outcomes on columns and evaluating tools on rows. (Rubric mapping COs with the evaluating tools)
- 6. The subjective mapping of POs with COs is ensured on the basis of the contents and degree of match is rated for corresponding COs as Excellent, Good, Fair or Little
- 7. Mapping of POs for the UG program as whole is taken conceptually as shown in following model



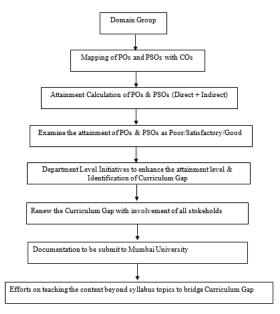


Fig.2.1.1 e The Process of Identifying Curriculum Gaps

Action is taken to bridge the gap

he gaps identified through the inputs obtained from the above resources are analyzed and it is being conveyed to the University for Inclusion in the upcoming formation of curricul

- Department has a standard practice to formulate content beyond the syllabus to bridge the curriculum gap. The faculties make the provision in the course plan of 1-2 hours support 1. Institute is affiliated with the University of Mumbai and is confined to the curriculum of the university.
- 2. Process introduced to identify and fill up the gap in the curriculum and industry.
- 3. Adequate measures are taken to improve industry participation in content delivery.
- 4. Gap in curriculum & industry required identified & adequate measures are taken to fill in.
- NPTEL local chapter for enhanced learning
- Guest lecture from industry expert, Content Delivery
- Expert guest lecture for SE, TE, BE course CESS and CSI chapter activities such as Industrial cum Educational tour, workshops, seminars, alumni interaction, Symposium
- · Workshop on latest topics Python, IoT, Robotics, LaTeX, Android development, Ethical Hacking, Python Programming, Reach and Teach Cloud computing, Cyber security,
- Social workshops like Pranayama, Yoga Meditation,
- Participation in State and National level sports
- Video lectures, virtual Laboratories by IIT, Kharagpur
- "SWAYAM" platform by MHRD is available to carry out massive online courses to improve employability

Domain Meeting Conducted



Course Domain : Software Engineering and Project Management

Academic Year: 2021-22

All the domain Members for DOMAIN: System Software and Algorithms are requested to attend the meeting Date: 0n 30/9/2022 Time:9:30 am at C33 agenda for the meeting is as follows.

Agenda: |

- > Prerequisite required, if any
- Course Plan Preparation
- Defining Target of COs with POs
- > Conduction of Experiment
- Test-I, Test-II syllabus
- Assignment/Tutorial/Special activities

Domain Convener: Dr. Sharmila Gaikwad Members Present

Fig 2.1.1f sample Domain meeting

Gap Analysis as per Subject

Table 2.1.1. a Subject Wise Gap Analysis

a Sample diary having content beyond syllabus is shown in following figure

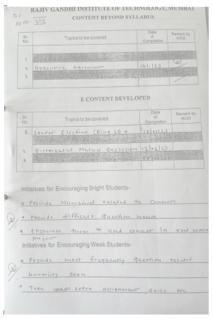


Fig. Content Beyond Syllabus from Academic Diary

 $\textbf{2.1.2 State the delivery details of the content beyond the syllabus for the attainment of POs \ and \ PSOs\ (10)$

Institute Marks: 10.00

2.1.2 List the curricular gaps for the attainment of defined POs and PSOs. Recommended subjects to bridge academic and industry

A. Gap Identification

- 1. As per the University Curriculum, Cloud Computing Lab course (CSL605) is introduced in VI semester and covers fundamental concepts in cloud infrastructure but need to emphasize on cloud management techniques such as middleware, resource provisioning, load balancing, metering and orchestration. To minimize the gap, we had organized three days workshop for our students
- 2. As syllabus of microprocessor (CSC405) has the study of advance processor but advance processor are not mentioned in syllabus so additional lecture were conducted on Multi-core processor Architecture and Interconnection network.
- 3. As per the university curriculum IoT CDSLO6011 is not introduce in any of the subject so to comply with industry to bridge the gap, IOT related Project are allocated to the students.
- · Library/internet assignments on contemporary issues.
- · Additional laboratory experiments/ use of Virtual Laboratory IIT B
- · Training on Soft skills and value add programs
- · Creative /Projects
- · Guest lectures
- · Workshops/conference

2022-23

Usage of Modern tools, life-long learning, 31th July, Professional NASAAI 2023 Dr. Ravi Margasahayam, National Space

tearning,
1 professional engineering

NASAAI 2023

National Space 96%
Seminar

Society USA

PO1,PO3,PO8,,PO12, PSO1,PSO2

practice. Mumbai Chapter

Usage of Modern

tools, life-long Data 12th Mr. Kareem

2 learning, professional engineering Science September, Compute Seminar 2023 Education Shah, Infodesk 82.29% PO1,PO2,PO3, PO12,PSO1,PSO2

engineering practice.

Usage of Modern Cyber Mr.Gaurav tools, ethical Security 12th Kumar. The

tools, ethical 3 principles, Seminar October, 2023 Security 12th Kumar, The Seminar October, 2023 PO1,PO3,PO8,PO12,PSO1,PSO2

professional ethic

professional Abroad 14th Pater Genius

ethics,professional Studies October, Creation.

Abroad 14th Datar, Genius PO1,PO6,PO8,PO12, engineering Studies October, Creation.

practice Seminar 2023

professional Mrs. Purvi
Abroad 14th Tolia Genius

ethics,professional Studies October, engineering Studies October, Creation. 94% PO1,P06,PO8,PSO1,PO12,PSO2

practice Seminar 2023

statistics,

mathematics, Data

professional Analytics 17th
6engineering Seminar October, 89.33%PO1,PO2,PO3,PO12,PSO1,PSO2

practice. 2023

2022-23

S.No	Gap	Action Taken	Date- Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Usage of Modern tools, life-long learning, professional engineering practice.	NASA AI Seminar	312023	Dr. Ravi Margasahayam, National Space Society USA Mumbai Chapter	96	PO1,PO3,PO8,,PO12, PSO1,PSO2
2	Usage of Modern tools, life-long learning, professional engineering practice.	Data Science Seminar	122023	Mr. Kareem Shah, Infodesk Compute Education	8229	PO1,PO2,PO3, PO12,PSO1,PSO2

2021-22

S.No	Gap	Action Taken	Date-Month- Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Identify, formulate, research literature, and analyze complex engineering problems	Recursion 4.0 Hackathon, Kavach 2023	16/03/2023	RGIT CESS & RGIT CODECELL	46	PO1,PO2,PO3,PO4 ,PO8,PO10,PO12,PSO1,PSO2
2	usage of Modern tools, life-long learning, professional engineering practice.	Cloud Computing Seminar	28/02/2023	PRof Yogesh jadhav	80	po1, po2,po3,po5 po8 po12PSO1, PSO2
3	Usage of modern tool , ethical proncipals, professional ethics	cyber security seminar	28/09/2022	Mr. Ansh Bidhe, Mr Websecure Info solution PVT Itd	71	PO1, PO3,PO8,PO9,PO12,PSO1,PSO2

2020-21

S.No	Gap	Action Taken	Date- Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Professional Ethics, Profetional Engineering practices	Microsoft webinar	08/05/2021	Mr. Amit Patil Microsoft team	80	PO1,PO3,PO5,PO8,PSO1,PSO2
2	Usage of modern tools, Developement of skill needed to make student indurstri ready	wordpress workshop	01/05/2021	RGITcess and RGIT CODECELL	84	PO1,PO2,PO3,PO5,PO8,PO12,PSO1,PSO2
3	Identify, formulated , research Literature and Analuse complex engineering problems	cloude compuing Workshop	31/03/2021	Mr. Yogesh JAdhav	93	PO1,PO3,PO4, PO8,PO10,PO12,PSO1,PSO2
4	Identify, formulated , research Literature and Analuse complex engineering problems	Recorsion 2.0 hackathon	21/03/2021	RGITcess and RGIT CODECELL	54	PO1,PO3,PO4,PO8,PO10,PO10,PSO1,PSO2
5	Professional Ethics, Profetional Engineering practices	GRE webinar	12/02/2021	Mr. Ajit singh Endeavour classes	85	PO1,PO2,PO6,PO8,PO12,PSO1,PSO2
6	Professional Ethics, Profetional Engineering practices	GRE webinar	11/02/2021	Mr. Alok Bansal, Endeavour classes	80	PO1,PO2,PO6,PO8,PO12,PSO1,PSO2
7	STATISTICS, MATHAMATICS, PROFESSIONAL ENGINEERING PRACTICES	DATASCIENCE WEBINAR	06/02/2021	Mr. Amit Naik and Mr. Sukamal Das	83	PO1,PO2,PO6,PO8,PO12,PSO1,PSO2
8	Professional Ethics, Profetional Engineering practices	webinar on developemnt of Recommendation engine using python	25/01/2021	mr. parth Sharma	85	PO1,PO2,PO6,PO8,PO12,PSO1,PSO2
9	Identify, formulated , research Literature and Analuse complex engineering problems	Codertime 2.0 Coding Compitition	31/10/2020	RGITcess and RGIT CODECELL	80	PO1,PO3,PO4,PO8,PO10,PSO1,PSO2
10	Professional Ethics, Profetional Engineering practices	Carrier counseling	11/10/2020	Mr. PAnkaj Mehta and Mr. Manoj Kansara	80	PO1,PO2,PO6,PO7,PO10,,PO12,PSO1,PSO2
11	STATISTICS, MATHAMATICS, PROFESSIONAL ENGINEERING PRACTICES	MAster of business Administration Webinar	10/10/2020	Mr. Gejo Sreeniwasan	83	Po1,po2,po3,po10,po12,pso1,pso2
12	Professional Ethics, Profetional Engineering practices	Student guide t approach capstone projects	02/10/2020	Mr. DEepanshu sonparote and Mr. Ayush Singh	78	PO1,PO2,PO6,PO8,PO12,PSO1,PSO2
13	Professional Ethics, Profetional Engineering practices	cRAK gre wEBINAR	09/09/2020	Mr. S. Shah and Mr. Alok Bansal	77	PO1,PO2,PO6,PO8,PO12.PSO1,PSO2

2.2 Teaching - Learning Processes (100)

Total Marks 100.00

 $\textbf{2.2.1 Describe processes followed to improve quality of Teaching \& Learning} \ (25)$

Institute Marks: 25.00

2.2 Teaching-Learning Process (100)

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

"Teaching-Learning-Process" followed to improve the quality of teaching and learning in each semester. The typical steps of TLP are described as follows with necessary supporting documents.

Adherence to academic calendar:

<u>University Academic Calendar</u> is prescribed by University of Mumbai. The Institute Academic Calendar is prepared in line with University Academic Calendar. Department calendar of events is prepared well in advance before the commencement of the semester based on the Institute Academic calendar of events in line with Mumbai University calendar. It consists of the activities planned for the semester which includes internal test dates, government holidays, conduction of departmental events etc. Subject allotment is done well in advance for staff to prepare lesson plans, and hard/soft copies of the lecture notes. Lesson plan with course outcomes is prepared by the faculty handling the subject before commencement of the semester and is duly approved by the Head of the department and made available to the students. Execution of lesson plan has been documented in the academic diary to ensure coverage of syllabus, monitored regularly by Head of the department.

For each course, a course file is prepared by the concerned faculty. The course file for theory subjects consists of:

- Syllabus
- · Assignment Questions
- · University Question papers
- IA question paper with BT and CO
- Finalized IA marks sheet
- · Attainment of CO & PO.

The course file for the Laboratory subjects consists of:

- Syllabus
- · Rubrics for continuous evaluation
- Lab manual
- Lab batch list

As per the university syllabus each lab consists of 10-14 experiments. Additional experiments are conducted in the relevant courses for better understanding.

- · Lecture Session duration is 1 hr. Laboratory duration is 2 hrs.
- · Value added Workshops/seminars/guest lectures are organized to abreast the students on recent trends in technologies.
- Students carry out mini projects to understand curriculum concepts in a better way
- Students are encouraged to attend/participate in Extra-curricular & Co-curricular activities.

Use of Various instructional methods and pedagogical initiatives

The faculty are now oriented towards Outcome based Education (OBE) and are actively utilizing the OBE to cater the learning need of students by innovative methods. The faculty of department adopts various innovative Teaching & Learning methodologies to create the best learning environment for students. These methodologies include traditional black board teaching, presentations, video lecturing, collaborative learning methods etc. as given below.

Methodology in Laboratories:

Special focus is given in instruction methodology in laboratories where the emphasis is more

on student's ability to individually gain in-depth knowledge while conducting the experiments. virtual laboratory exercises are conducted for the benefit of students. In this regard, the following procedures are followed:

- 1. Laboratory manuals are prepared giving the details of the Algorithm, Program, procedure, specifications, etc., The students have to complete the algorithm, design diagrams, Programs and also summarise their observations/conclusions of the experiment in the form of results and discussions. All the details are then written meticulously in the respective laboratory records.
- 2. The students are required to study the experiment and know the procedure in the manual before conduct of the experiment. The group of students is also encouraged to discuss among themselves during this study and be ready to answer any questions raised by the faculty in this regard. It has been observed that this method of instruction makes students prepare and understand the correlation of the experiments with the related theory in a better manner and also makes them confident in conducting the experiment on their own.

Lecture method and Interactive learning

The faculty use chalk and board and audio-visual aids in teaching. Students are encouraged to actively interact during the lecture hour by getting the doubts clarified. Further, students are also encouraged to give seminars relevant to the subjects which adds to their presentation skills.

Project-based learning

During the pre-final year, the students carry out mini projects and in the final year academic projects are executed under the guidance of faculty.

Computer-assisted learning

The department is equipped with sufficient number of computers, LCD projectors, internet facility, application software, system software and printers which are effectively used for teaching and learning. Faculty members are making effective use of sources like National Programme on Technology Enhanced Learning (NPTEL), internet sources for effective teaching.

Collaborative learning

Through collaborative learning students are exposed to learn various topics and hands-on experience under different laboratories, related to program curriculum.

Developing lifelong learning attitudes

The students are introduced and gradually pushed into adopting lifelong learning through the following initiatives and practices.

- The students with regular and frequent visits to the library are encouraged to gifts and rewards.
- Students are encouraged to prepare technical briefs on the contents covered in the journals.
- Students are encouraged to go through technical websites on the internet to learn about emerging issues and technologies.
- Students are encouraged to participate in technical competitions and hackthons/ Avishkar being offered by the various agencies.
- · Regular lectures are organized by the industry experts and from research organizations to make students aware of the latest developments and technologies.

Through the above methods faculty encourages the students into gradual self-motivated study and into continuous learning.

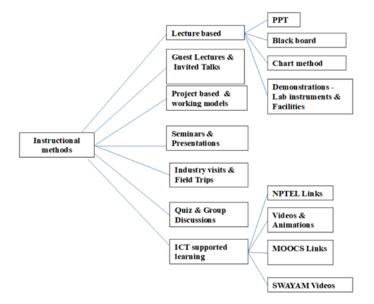


Fig.2.2.1a Strategies used to make the teaching more effective

Impact analysis:

The following positive outcomes are observed after adopting the above mentioned innovative Teaching Learning Process

- Improved attendance of students for every class.
- Improvement in results.
- Active participation of students in OBE activities.
- Innovative project ideas are derived in class.
- Better bonding between students and faculty.
- Appreciation from the parents.

Conduction of Experiments

Curriculum stipulates laboratory courses per semester from 1st to 8th semester. All laboratories are well equipped with essential hardware, software and instructional manuals. The observation and record books are checked, verified and maintained. A faculty member is assigned for each lab session.

The following innovative methods are adopted by the faculty for the Laboratories.

- The Laboratories are conducted for 2 hours per session. In each session the faculty will explain the circuit design / logic/algorithm/program relative to the experiment to be conducted.
- The students will write the complete circuit design /program in the observation book, execute and the results obtained are analyzed.
- · Virtual laboratory exercises are conducted for the benefit of students.
- The executed experiment with theory, procedure, Algorithm/flowchart and output are documented in the laboratory file by the students later.
- · Viva questions are asked at the end of every laboratory session for better understanding of the experiment.
- The Laboratory courses are evaluated by the faculty based on continuous evaluation and Internal term work for 25 marks.
- Continuous Assessment in laboratory Continuous assessment system is implemented for assessment of laboratory work. The assessment is done on the basis of student involvement in performing, understanding the experiment and on time submission of laboratory records.

Impact analysis

- o Improvement in analytical/logical abilities of students.
- o Improvement in placement.
- o Able to apply knowledge for implementing academic projects in multidisciplinary environments
- o Able to work as an individual or in a team.
- o Able to comprehend and document the reports.

Student feedback of teaching learning process and actions taken

As per institute policy, Students feedback is taken by HOD twice a semester, and end semester feedback is conducted by Internal Quality Assurance Cell (IQAC) just after the 2nd internal Examination, all the students are required to undergo filling the online feedback-form to apprise the faculty. Based on the students' feedback, the Principal and HOD of the Department will give valuable suggestions to improve the quality of teaching- learning wherever essential. Faculty development programs are attended by faculty to enhance the teaching skills of faculty.

Encouraging Bright Students:

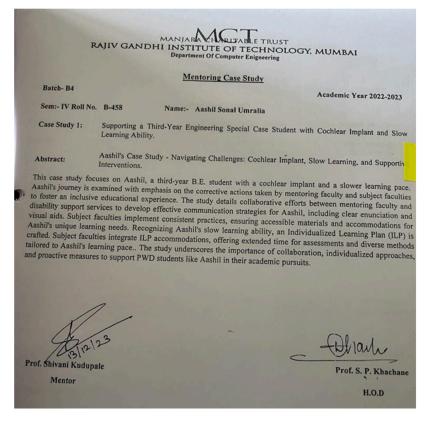
- The bright students are encouraged by giving the mentoring of other student (Slow learners).
- The bright students are given good grades in both theory and laboratory.
- · The bright students are given roles and positions in committees.
- The bright students are given are recommended for Internship.
- The bright students are given permission for conference paper presentation
- The bright students are given reimbursement of conference fees
- Students are encouraged to participate in Hackathon, Avishkar.
- The bright student encouraged for Value added Activities
- The bright students are encouraged to the competitive exams like GATE, GRE,

TOFEL, by giving the suitable material.

Assisting Weak Students:

- They are supported by the student mentoring and faculty mentoring, extra classes, remedial class are conducted.
- Behaviour problems are corrected through Student Mentoring system.
- During the lab, special assistance given by other bright students.

Case Study of Ashil Student of batch 2021-22 having hearing disability, all staff are giving him extra remedial lectures and helping him understand the concepts during preparation leave to student before examination.



2.2.2 Quality of internal semester Question papers, Assignments and Evaluation (20)

Institute Marks: 20.00

2.2.2. Quality of internal semester Question papers, Assignments and Evaluation (20)

(Mention the initiatives, implementation details and analysis of learning levels related to quality of semester question papers, assignments and evaluation)

A) Initiatives:

Following initiatives have been devised at department level to prepare quality assignments for all internal assessments

- This committee includes HOD and Domain Experts to ensure quality assignments and test for all internal assessments
- · Assignment formats are discussed and finalized by the committee
- · Question papers are set as per university syllabus guidelines and difficulty level, course outcomes are mapped by blooms taxonomy and verified by the committee.
- · Students are advised to use syllabus recommended text books and reference books for writing their assignments and test.
- The assignments/ question papers/Lab Assignments are prepared by the individual subject teachers.
- · Faculty members are also encouraged to include case studies and standard questions that are important from examination viewpoint.
- Subject assignments also include few questions on 'contents beyond the syllabus.

B. Process to ensure the quality of internal semester question papers

- · All tests are conducted in strict adherence to the academic calendar.
- There are two categories of quality check for the paper one is to check with the format as per given by exam cell and other is to check with mapping of co, blooms taxonomy and syllabus coverage.
- · The question papers for each subject are set in such a way that it maps to the Course Outcomes of the respective subject.
- The question paper will be verified by the Domain Experts team and papers are accepted with or without modifications.
- The questions asked in each subject are categorized to knowledge, comprehension, application, analysis, evaluation and synthesis level that are elaborated with the levels of taxonomy like which type of questions are covered in papers.
- · All course outcomes will be achieved through the tests conducted in each semester.
- · The points that are checked by domain expert are as
- CO Coverage for Midterm Exams CO
- · Taxonomy levels coverage
- · Difficulty levels for questions as per the subject
- · Syllabus coverage

STEPS TO EVALUATE QUALITY OF PAPERS2

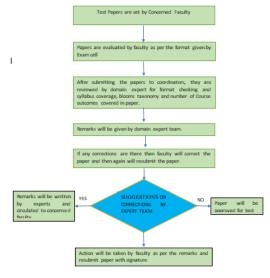


Fig.2.2.2a Process to ensure the quality of internal semester question papers

The team that works on quality check of paper is Domain Expert committee with HOD that include the experts of respective areas of the subjects. So quality check is mainly performed by

- 1. Head of the Department
- 2. Course Coordinator
- 3. Subject Expert

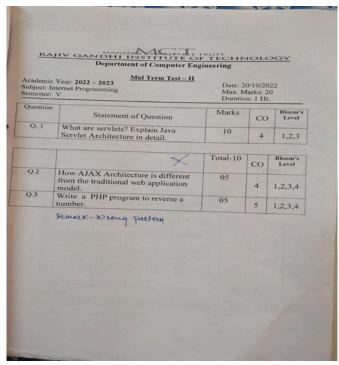


Fig . 2.2.2b Sample for discrepancies of Q.P with Remark

Initial preparation process of test conduction:

- Notices are circulated for submitting question paper for review process to term test incharge on given date.
- 2. Domain expert team will be notified to review the papers.
- 3. Report is submitted by domain expert team to Term Test Incharge by coordination with HOD.
- 4. Action will be taken as per the remarks by faculties.

Transparent Internal Assessment test process:

- The Department Internal Assessment Test Committee will be formed to review the internal exam question paper.
- If any discrepancies are discovered in the question papers following the scrutiny, the question papers will be sent to the corresponding faculty members for correction.
- 3. Question papers are printed after they have been scrutinized and corrected.
- Question papers received from printing are sorted and packed according to room allocation.
- 5. Question papers are distributed in accordance with the test schedule.

2. To ensure the quality of the internal semester question papers the following process is adopted:

Regular midterm exams are held in strict adherence to the academic calendar of the institute.

Notice related to term test schedule is displayed on notice board for students

The question papers are set in such a way that the COs maps the questions asked which are listed in syllabus.

The question papers are examined and verified by the HOD and domain experts to ensure the standard of the paper and ensures that the COs of the course are covered.

The questions papers are modified if HOD and domain experts are not satisfied with standard requirements of the question paper like if diagram is not visible then it will be written as remark in the report of domain expert and concerned faculty will correct that diagram and resubmit the paper to Mid-term test Incharge.

The questions asked are well balanced to ensure that all the components such as knowledge, comprehension, application, analysis, design are encompassed.

5/16/24. 12:01 PM

The quality of the test paper is checked against syntax error, semantic error with the difficulty

After test given by students and when faculty will check the papers the same is distributed to students for taking sign on their answer sheet to make sure that they agree with the marks given by faculty and they know where they are lagging in writing the answers or to discuss doubts.

Discussion of test paper with students:

The entire course/subject Incharge are advised to construct an evaluation scheme based on the marks assigned to each question.

- 1. Faculty members grade the answer scripts using the evaluation scheme of questions like marks for diagrams, explanation etc.
- 2. Faculty members discuss the question paper and distribute the answer sheets of students in their separate classes.
- 3. If any anomalies in the distribution of marks are discovered, the faculty must consider the problem or doubt raised by students and make them understand if he/she is not understanding the marks scheme.
- 4. A model answer assessment sheet is created from the sample of answers and evaluations.

3. Answer book distribution, attendance sheet, and Room allotment:

- · The seating arrangement is planned and displayed ahead of time.
- · Duty charts for invigilators will be produced in accordance with the timetable and room requirements and sent to all faculty members.
- . The student will sit according to the seating arrangement provided, and the room invigilator will check each students signature on the attendance sheet.
- On each attendance form (room, semester, and course-specific), include the students name. Roll number, name, and signature required.
- In each room, the invigilators record the number of people who are absent and present in the attendance sheet, along with the date and signature.
- · According to the timetable in each classroom, two different class students will be assigned

to each desk (no more than 40 students).

- · Each class room is assigned one or two faculty members.
- Distribution of answer books and question papers from the internal test control room.

4. Distribution of answer sheets to faculty members

On completion of test paper of different subjects answer sheets are distributed to faculty members on the same day by counting the no of answer sheets and signature will be taken on report of answer sheets of every subjects of present students for the test.

RAJIV GANDHI INSTITUTE OF TECHNOLOGY (Permanenlty Affiliated to University of Mumbai) DEPARTMENT OF COMPUTER ENGINEERING

Term Test - I/II Examination

	Date://
Max. Marks: 20	Duration: 1 hrs
Class:	
Name of Course / Course Code / Credits of Course:	
Instructions:	
1. Question 1 is compulsory	
2. From Question 2 to 5(Solve any Three)	
3. Figures to the right of the question indicates full marks	
4. Assume the suitable data wherever necessary.	
5. Illustrate your answers using neat diagrams wherever necess	ary

Q. No.	Statement of Question	Maximum Marks	Course Outcomes	Bloom's level	PI(performance Indicators)
Q.1		05			
	Solve any three questions	Q2. to Q.5			
Q.2		05			
Q.3		05			
Q.4		05			
Q.5		05			

Please read instructions and strictly follow above format for two semester term test papers (TEST 1 AND TEST 2) for year 2022-23(June 22 to April 23)

- Write numbers for CO such as 1,2 etc.
- Blooms taxonomy should be written in levels form e.g L1
 PI (Performance indicators should be written like 1.1.2, 2.1.1

Fig. 2.2.2c Q.P format provided by Term Test In-charge as per Instructions by Exam Cell

RAJIV GANDHI INSTITUTE OF TECHNOLOGY

Department Of Computer Engineering

Mid Term Test – II

INSTRUCTION: Q1 IS COMPULSORY.

Question	Statement of Question	Marks	Course Outcome s	Bloom's level	PI(performanc e Indicators)
Q. 1	Explain DGIM algorithm.	05	4	L2	1.1.1, 1.3.1, 2.1.2
	Solve any three questions Q2 to Q.5	Total-15			3.1.2,3.1.3, 3.1.6, 4.1.3, 5.1.1,
Q. 2	Write steps of FM algorithm with suitable example.	05	4	L2, L3	1.1.1, 1.3.1,2.1.2
Q. 3	Explain content and collaborative based recommendation system.	05	5	L2	3.1.2,3.1.3
Q.4	What is community social network as a graph and how its recognized.	05	5	L3	4.1.3,4.3.4,9.1. 1,9.1.2
Q.5	Explain data types ,vectors and visualization in R with suitable example.	05	6	L2	4.1.3,4.3.4,9.1. 1,9.1.2

Fig. 2.2.2d Q.P with CO, BT Level, PI

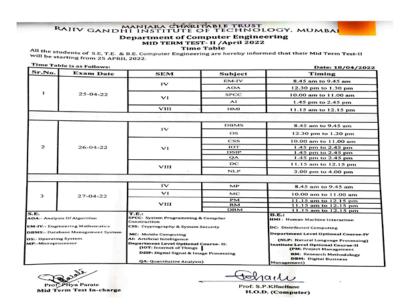


Fig. 2.2.2e Mid Term Test Schedule



ACTION STATE OF	Subject	Total Students	Time	Subject In-charge	Observer 1	Observer 2	Observer 3
SERVICE OF	AMARI	SECTION 1	SANDER DE LINE DE LA PROPERTA	15/03/2021	(F-100)		
	AM-IV	157	9a.m. to 10 a.m.	Prof. Shalini Sharma	Prof. J.A.Deshmukh	Prof. Anita Lahane	Prof. Kaajal Sharn
15/03/2021	SE	157	10.30 a.m. to 11.30 a.m.	Prof. B. M. Patil /	Prof. D.M.Dalgade	Prof. D.S.Kale	Dr. S.Y.Ket x
	HMI	149	12 p.m. to 1 p.m.	Prof. S. V. Lade	Prof. D.J. Dhangar	Prof. Priya P. Parate	
	DSGT (Sem-III)	19	3 p.m. to 4 p.m.	Prof. S.Sadhukhan	and a second	1 Transce	Mis. M.N. Warade
ROLL SKA		THE SE	A PORT OF THE PROPERTY OF	16/03/2021			
	AOA	157	9a.m. to 10 a.m.	Prof. Kaajal Sharma	Prof. S.Sadhukhan	Deef D.I. Discourse	Tree up
16/03/2021	CSS	157	10.30 a.m. to 11.30 a.m.	Dr. S.Y.Ket Y	Prof. Naina Kaushik	Prof. D.J. Dhangar	Mr.Ismail Patel
16/03/2021	DC	149	12 p.m. to 1 p.m.	Prof. B.N.Panchal	Prof. Anita Lahane	Prof. P. Bhilare	Prof. Dipak Gaikar
	DS(Sem-III)	19	3 p.m. to 4 p.m.	Prof. Dipak Gaikar	Prof. Anita Lanane	Prof. Priya P. Parate	Prof. B. M. Patil
PERSON.	2000年に1月日日	TO SHOW	CHARLES STATE OF	17/03/2021			
	DBMS	157	9a.m. to 10 a.m.	Prof. P. Bhilare	Prof. Naina Kaushik	Dr. S.S.Gaikwad	CONTRACT DOOR
17/03/2021	DWM	157	10.30 a.m. to 11.30 a.m	Dr. J.A. Deshmukh	Prof. D.M.Dalgade		Prof. D.S.Kale
17/03/2021	NLP	149	12 p.m. to 1 p.m.	Prof. Suresh Mestry	Prof. Dipak Gaikar	Prof. Anita Lahane	Mrs. Sonal Divekar
	DLCA(Sem-III)	. 19	3 p.m. to 4 p.m.	Prof. D.J. Dhangar	Froi. Dipak Galkar	Prof. B.N.Panchal	Prof. Kaajal Sharma
TO SERVICE SERVICE		15/-	N. Parket Street Street	18/03/2021	A CONTROL OF THE PARTY		
	OS	157	9a.m. to 10 a.m.	Prof. S. P.Khachane	Prof. D.M.Dalgade	10-400 11 11	
18/03/2021	SPCC	157	10.30 a.m. to 11.30 a.m.	Prof. Preeti Satao	Prof. D.P.Kapse	Prof. S.Sadhukhan	Mr.Avinash Bhisikar
	CG(Sem-III)	19	3 p.m. to 4 p.m.	Prof. Naina Kaushik	Prof. D.P.Kapse	Prof. B. M. Patil	Prof. Suresh Mestry
SECURIOR HIS	11 7 TO 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	(A) 100 C L TO A	19/03/2021			
	MP	157	9a.m. to 10 a.m.	Prof. D.P.Kapse	Prof. Preeti Satao	Prof. B.N.Panchal	Series 2.500 5.000
	ML	123		Prof. D.S.Kale	Prof. J.A.Deshmukh		Mr. Pradeep Yadav
	ERP	32	10.30 a.m. to 11.30 a.m.	Dr. S.S.Gaikwad	rioi. J.A.Desnmukn	Prof. Suresh Mestry	Prof. P. Bhilare
		/40 -		Dr. S.S.Gaikwad	Mr. Onkar Shinde		
9/03/2021		(43-Comp	12 4-1			l .	
9/03/2021	PM/DBM/	+37-IT)/	12 n.m. to 1 n.m.				
9/03/2021	PM / DBM / RM		12 p.m. to 1 p.m.	Prof. Priya P. Parate Dr. R.V.Kale	Prof. Preeti Satao		

Fig. 2.2.2f Invigilation Duty chart of Online Mode Exam

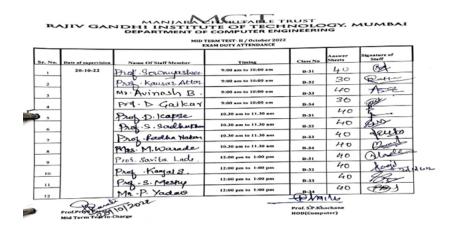


Fig. 2.2.2g Allocation of Classroom to Invigilators

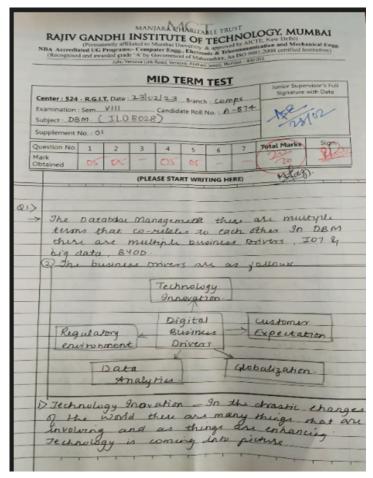


Fig. 2.2.2h Term test paper verified and signed by student

2.2.3 Quality of student projects (25)

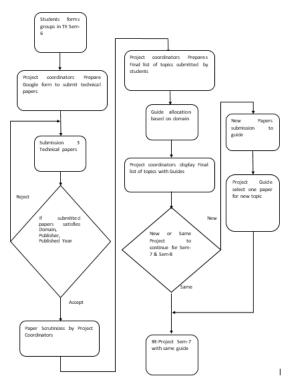
Institute Marks: 25.00

2.2.3 Quality of student projects (25)

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

BE Project Selection Procedure

- 1. BE Project selection procedure start at TE Sem-6 as a mini-project.
- 2. Students from TE Sem-6 are ask to form group of 2-3 students and submit 3 technical papers from different fields/ domains (Technical papers must be from IEEE, ACM, Springer and reputed journal with Scopus index). Also papers must from last five years.
- 3. Domain/ fields suggested for students
- a. Machine Learning
- b. Artificial Intelligence
- c. Soft computing
- d. Neural Network
- e. IOT
- f. DWM
- g. Encryption and Security
- h. Software Engineering
- i. Analysis of Algorithm
- j. Big Data
- k. Mobile Computing
- I. Wireless Communication /Technology
- m. Operating system
- n. NLP
- o. Image Processing
- 4. BE Project Coordinators accepts all papers from project groups through Google form.
- 5. Team scrutinizes every paper from students, only valid papers (Publisher, year of paper published, domain, and repetition of topic).
- 6. Based on domain/ field selected papers every project group is allocated with Guide.
- 7. Project groups can carry forward the project work in sem-7 and sem-8 depends on guide instructions and project scalability, or project groups can select new topic in sem-7



2.2.3.a Selection Procedure (Flow-Chart)

2.2.3.a Selection Procedure (Flow-Chart)

2 Initiatives taken by Project Guides:

- The faculty motivates the students to carry out projects in house by providing essential resources.
- Further the students are encouraged to participate in project exhibitions, present/publish their work in conferences/journals.

Types and relevance of the projects and their contribution towards attainment of POs

Based upon the functional area of the projects, they are categorized as follows:

- 1. Application oriented.
- 2. Product and process development.
- 3. Solution to the industrial specific problems.
- 4. Design and Development of software.
- 5. Verification and validation of software.

Major Project Course Objectives:

- 1. The Project work enables students to develop further skills and knowledge gained during the programme by applying them to the analysis of a specific problem or issue, via a substantial piece of work carried out over an extended period.
- 2. For students to demonstrate proficiency in the design of a research project, application of appropriate research methods, collection and analysis of data and presentation of results.
- 3. The primary objective is to meet the milestone s formed in the overall project plan decided in part-I of project.
- 4. The idea presented in Project part-I should be implemented in Project -II with results, conclusion and future work.
- 5. The project will culminate in the production of a thesis by each individual student

Major Project Course Outcomes:

After successful completion of the work the students are able to:

Course Outcome	Description
CO1	Demonstrate a sound technical knowledge of their selected project topic.
CO2	Undertake problem formulation and solution legally for the sustainable development.
СОЗ	Develop an attitude of team work and independent working on real time problems.
CO4	Design engineering solutions to complex problems based on engineering and management principles.
CO5	Demonstrate an awareness and application of appropriate personal, societal, and professional ethical standards.

Mini Project Course Outcomes:

Course	Description
Outcome	
CO1	Identify problems based on Societal/research Needs.
CO2	Apply Knowledge and skill to solve societal Problem in a group
СОЗ	Develop interpersonal skills to work as members of a group or leader
CO4	Draw the proper inference from available results through theoretical/experimental/simulation
CO5	Analyze the impact of solution in societal and environmental context for sustainable development
CO6	Use standard norms of engineering practices
CO7	Excel in written and oral communication
CO8	Demonstrate capabilities of self-learning in a group, which leads to lifelong learning
CO9	Demonstrate project management principles during project work

Process for monitoring and evaluation

- 1. Every Project group allocated with Guide, Student instruct to submit abstract (300 words max) stating with methodology, technology, scope.
- 2. If project idea in abstract does not suit TE/BE level project, then guide may change project topic.
- 3. Every Friday is allocated for Project day; students has to report their guide for updating of project work.
- 4. Project team provides weekly report file(online) to students to fill out work been done by them with guide instructions and remarks.
- 5. Project Review-I schedule in 2-3 weeks after allocating and finalizing project topics.
- 6. Every group is monitored weekly by guide and groups are asked to complete their analysis and design part of project for Review-I.
- 7. Review-I is conduct and evaluate by internal experts and project guide.
- 8. In Review-I expert evaluate project based on Assign Work, Idea development, Analysis, Punctuality, Presentation of work.
- 9. Review-II also schedule 2-3 weeks after review-I. In Review-II expert evaluate project based on organization of data, idea implementation (partial/complete), Punctuality, presentation of work, contribution of each member in team, paper published.
- 10. ased on internal Reviews of project, final internal marks for every project are decided by internal. External oral is a final assessment of project.
- 11. Collectively internal and external marks will be the final result for project.

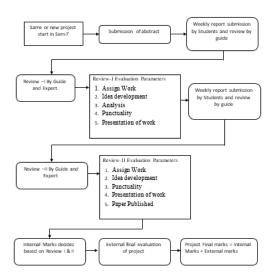


Fig 2.2.3.b Project Monitoring and Evaluation process

Table 2.2.3a Rubrics for assessing Project/ Mini Projects

Score	1-2	3-4	5-6	7-8	9-10
Assigned Work done (10)	Work done after week with poor explanation of the purpose and need of the task assigned.	Work done after a week with moderate explanation of the purpose and need of the task assigned.	Work done within a week with average explanation of the purpose and need of the task assigned.	Work done within a week with satisfactory explanation of the purpose and need of the task assigned	Complete Work done within a week with detailed explanation of the purpose and need of the task assigned
Score[]	1	2	3	4	5
Analysis (05)	Improper division of problem into modules and in appropriate selection of computing framework	Divis on of problem into modules and good selection of computing framework	Diviso n of problem Into modules but inappropriate selection of computing framework	Divison of problem into modules and good selection of computing framework	Diviso n of problem into modules and good selection of computing framework
	Design methodology Not defined properly	Desi gn methodology not defined properly	Desig n methodology not defined properly	· Design methodology not properly justified	 Appro priate design methodology and properly justification

Presentation	- Objectives not	· Objectives		· Objectives	- Objectives
(05)	achieved as per time frame - Contents of presentations are not appropriate - Demonstration not satisfactory	not achieved as per time frame - Contents of presentations are appropriate but not well arranged - Eye contact with few pupple and unclear voice	Object ives achieved as per time frame Contents of presentations are appropriate but not well arranged Eye contact with few people and unclear voice	achieved as per time frame - Contents of presentations are appropriate but not well arranged - Satisfactory demonstration, clore voice with good spoken language but eye contact not proper	achieved as per time fram - Contents of preventations are appropriate and well arranged - Proper eye contact with audience and clear voice with good spoken language
Punctuality (05)	Time frame not properly specified	Time frame partly specified, and being	Time frame properly specified, but not being	Time frame properly specified but being	Time frame properly specified and being
		partly followed	followed	followed partly	followed

Table 2.2.3b BE Project Domain-wise (2022-2023)

Group No.	Name of Students	Roll Number	Div	Project Guide Name	Final Project Title	Domain Name
	Bandgar Mamta	707	Α			
1	Kathe Vedant	752	Α	Prof.	Customer Churn Prediction system for	Machine
	Khair Sakshi	753	Α	B.N.Panchal	Telecommunications	Learning
	Lavange Vanshita	760	Α			
	AADKE NEHA	701	Α		Review Management System	DWM
2	CHAVAN PRATIKA	715	Α	Prof. Priyanka Bhilare		
_	GANJI VIGHNESH	725	Α			
	GUPTA NIKHIL	734	Α			
	Khan Sameer	755	Α			
3	Kanade Sameer	750	Α	Prof. D. P.	iCampuz (An Android	Artificial
	Kadam Pranav	746	Α	Kapse	application)	Intelligent
	Karad Pavan	751	Α			

Group No.	Name of Students	Roll Number	Div	Project Guide Name	Final Project Title	Domain Name
	Saurabh Parkar	705	В			
	Akash Pawar	709	В	D (D 0) ()	0	Artificial
4	Rithik Rai	714	В	Prof. D.S.Kale	Chatbot	Intelligent
	Abhijay Walia	766	В	1		
	Yogita Chaudhari	712	Α			
_	Aniket Chauhan	713	Α	Durat C V I and a	Controller The market book	NAL DIAMA
5	Divyanka Gharat	773	Α	Prof. S. V. Lade	Swindler: The project hub	ML,DWM
	Shubham Gupta		Α	1		
	Mrunal Gavit	727	Α			
	Shruti Halde	737	Α	Prof. D. M.	Prediction of Multiple	Machine
6	Rhea Indurkar	738	Α	Dalgade	Diseases	Learning
	Hinal Jethava	741	Α	1		
	Yash Gavanang	726	Α			
	Niraj Mhobey	771	Α		Plagiarism detection for	Machine
7	Abubakkar Khan	754	Α	Prof. B.M. Patil	Project reports using Machine Learning	Learning
	Lavesh chib	716	Α	-		
	Zaid Ali Khan	776	Α			
_	Mannal Kazi	778	Α	Prof. Priya	Android App: Recover Whatsapp Deleted Messages and Medias	
8	Numan Khan	781	Α	Parate		DWM
	Darshan Chavan	714	Α			
	Sara Ghadigaonkar	728	Α	Dr. Jyoti Deshmukh		
	Dhwani Gandhi	721	Α			Artificial
9	Aditya Mane	763	Α		Mental Heath Tracker	Intelligent
	Vedant Gaikwad	724	Α	-		
	Fletcher Fernandes	723	Α			
	Harsh Gharat	729	Α	-	Crowdfunding Platform Using Blockchain	Blockchain
10	Anuj Kadam	744	Α	Prof. D.S.Kale		
	Amaan Kamil	749	Α	-		
	Buvani Pai	701	В			
44	Shaikh Mohmmed Asaad	735	В	- 	Intelligent Traffic Signal	Artificial
11	Mihir Vartak	761	В	Prof. S. V. Lade	System for Emergency vehicles	Intelligent
	Mohammed Anas Shaikh	775	В	-		
	Alister Rodrigues	719	В			
12	Sumedh Salve	726	В	Prof. Priyanka Bhilare	Stock Price Prediction	Machine Learning
	Tanfaiz Shaikh		В			
	Labeeb Ansari	704	Α			
13	Ishita Borkar	711	Α	Dr. Satish Kat	Cryptocurrency using	Diagrahain
13	Disha Dhako	720	Α	Dr. Satish Ket	blockchain technology	Blockchain
	Ishani Ashok Kumar	739	Α	1		
	Husain Dahodwala	717	Α			
14	Shlok Jagushte	740	Α	Prof. Dipak	Career Recommendation	Machine
14	Shrey Mistry	767	Α	Gaikar	Model for Students based on Machine Learning Algorithms	Learning
	Fardeen Shroff	745	В	1		

Group No.	Name of Students	Roll Number	Div	Project Guide Name	Final Project Title	Domain Name
	Anusha Sunikumar	705	Α		Fitomatic: A web based	
15	Neha Bhange	708	Α	Prof. D. M.Dalgade	automated healthcare supervision and monitoring	Machine
13	Kingshuk Debnath	718	Α		app based on Machine	Learning
	Elrisha Dsilva	722	Α		learning	
	Shloka Daga	774	Α			
16	Chiragkumar Maheto	761	Α	Prof. Kaajal Sharma	OneStop OTT Movie Recommender	Machine Learning
	Bhavesh Maurya	765	Α			
	Rishank Shah	734	В			
17	Altmash Siddique	746	В	Prof. Radha Nabar	Disease Prediction System	Machine Learning
	Devansh Trivedi	758	В			
	Akshar Mehta	766	Α			
40	Sakshi Pandey	703	В	Prof. S.P.	Decentralised Storage	Distributed
18	Karan Parmar	706	В	Khachane	System	System,. Networking
	Nilesh Sahu	722	В	-		_
	Shubhansh Jha	742	Α			
	Shreyas Ambre	703	Α	Prof. Sumitra	Risk Assess-Risk Assesment	Machine
19	Amol Gosavi	731	Α	Sadhukhan	Of diseases	Learning
	Shubham Kumar	759	Α	-		
	Soham Deodhar	719	Α	Prof. D.P.Kapse		Blockchain
20	Harish Gupta	733	Α		Digital Voting System using Blockchain	
	Namrata Jaiswar	780	Α			
	Bhagyasha Patil	708	В		Devanagari Digit and	Neural
21	Anushka Pede	711	В	Prof. Suresh Mestry	Character Recognition using CNN	
	Shreya Raul	717	В			Learning
	Harsh Sawaji	731	В	Prof. Sumitra	A.I Generated Image From	Machine
22	Musab Shaikh	736	В	Sadhukhan	Text Using ML	Learning
	Sakshi Parikh	704	В			
	Swaraj Salunke	723	В	Prof. Priya	Unique Feature Identifying	
23	SwarajSalunkhe	724	В	Parate	System	DWM
	Neha Modhave	777	В			
	Kunal Bagde	706	Α			
	Vedika Bane	772	Α		An early fire detection using	
24	Pradnya Jadhav	775	Α	Prof. B.M. Patil	CNN for effective disaster management	Deep Learning
	Rohini Chavhan	779	Α	-		
	Harshal Sawant	732	В			
	Kartik Shelar	739	В	Prof. S.P.	Best Crop Recommendation	Machine
25	Khushi Shetty	741	В	Khachane	System and Crop Disease Detection	Learning
	Priyam Tamrakar	754	В			
	Somesh Kshirsagar	758	Α			
26	Kartikkumar Mahindrakar	762	A	Dr. S. S. Gaikwad	Brain Care App - Brain tumor detection with hospital	Deep Learning
	Vinayak Maskar	764	Α	. Gaikwau	recommendation system	
	Prajwal Nanaware	768	Α	1		
	Dhanita Redij	718	В			
27	Kasturi Shinde	743	В	Prof. Suresh Mestry	Bloodless Hemoglobin level detection using CNN	Deep Learning
	Rajeshwari Tajnekar	769	В	1	aetection using CNN	

Group No.	Name of Students	Roll Number	Div	Project Guide Name	Final Project Title	Domain Name
	Tushar Panchmukh	702	В			
28	Sahil Singh	749	В	Prof. Naina	Sign Language and Speech	NLP
20	Suraj Tiwari	756	В	Kaushik	Encoder-Decoder	INLF
	Ayaz Qureishi	713	В			
	Neel Tilak	771	В			
29	Sujit Thorat	773	В	Dr. Satish Ket	Health care portal with Al	Artificial
29	Shantanu Singh	780	В	Di. Salisii Kel	chatbot	Intelligent
	Saddam Shaikh	738	В			
	Harsh Kadam	745	Α			
30	Krunal Kharat	756	Α	Prof. Kaajal	Airetate Dradiction	Machine
30	kunal kakara	747	Α	Sharma	Airstats Prediction	Learning
	Tanmay Koli	757	Α			
	Akhtar Nabeel	702	Α		OF OUR FAIRTION A	
•	Shanmukh Bhutada	709	Α	Prof.	SECURE NATION - A system for internal security	B
31	Amogh Bidwe	710	Α	SoumyaShree	of a nation using Blockchain	Blockchain
	Shreyas Kamath	748	Α		Technology	
	Jatin Singh	769	Α			
	Rishabh gilda	770	Α	Prof. Preeti	CRACK DETECTION	Image
32	harsh ghosalkar	730	Α	Satao		Processing
	Durvesh Thombare	755	В			
	Radhika Sanap	727	В			
33	Rukmani Sivramakrishnan	720	В	Dr. Jyoti Deshmukh	Diabetic Retinopathy using Image Processing and	Image
	Abhishek Pillai	712	В		Segmentation	Processing
	Zishaan Sayyed	733	В			
	Ujjwal Patel	707	В			
	Takshil Sanghvi	729	В	Prof. Dipak	Prediction of Air Quality Index and Weather forecasting using Machine	Machine
34	Sagar Singh	748	В	Gaikar		Learning
	Om Vispute	765	В		Learning	
	Om Rane	715	В			
	Komal Satam	730	В	Prof.	Image Classification using	
35	Shreyas Shete	740	В	SoumyaShree	CNN	Deep Learning
	Harsh Shirke	744	В			
	Vaibhav Vijaywargiya	762	В			
	Samar Vishwakarma	764	В	Dr. S. S.	Human Computer Interaction	Machine
36	Alok Yadav	767	В	Gaikwad	usign Machine Learning	Learning
	Vishal Yadav	768	В			
	Hardik Sakpal	774	В			
	Rohit Pawar	710	В	Prof.		D.V.4.
37	Tejal Mhatre	776	В	B.N.Panchal	Automatic Essay scoring	DWM
	Yash More	778	В			
	Akash Sahani	721	В			
	Mohit Sancheti	728	В	Prof. Preeti	Speech Emotion recognition	Machine
38	Shivam Singh	750	В	Satao	·	Learning
	Akash Solunke	752	В			

Group No.	Name of Students	Roll Number	Div	Project Guide Name	Final Project Title	Domain Name
	Aniket solanki	751	В	Prof. Naina Kaushik		
39	Harsheet soni	753	В		Twitter Classification of Public Service Complaints	Machine Learning
	Kunal singh	747	В			
	Harsh Tripathi	757	В			
	Vedika Shetty	742	В			
40	Sakshi Vaidya	759	В	Prof. Radha	Churn prediction using	Machine Learning
	Vaishali Valvi	760	В	Nabar	machine learning	
	Tanvi Visapurkar	763	В			

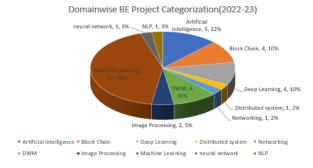


Table 2.2.3c BE Project Final List Domain Names (2021-2022)

Gr. No.	Name of Students	Roll Nos. (With Division)	Project Guide	Final Project Topic	Domain	
	Anagha Patil	708(B)		Efficient Context-aware event		
1	Shivprasad Poojary	718(B)	Prof. Bhushan Patil	recommendation system for academia	AI/ML	
	Aakash Rajawat	722(B)		academia		
	Prince Mehta	668(A)		Number of the Data stick and		
2	Kabir Shaikh	732(B)	Prof. D. P. Kapse	Number plate Detection and Recognition	DSA	
	Rudra Tiwari	762(B)		·		
	Arun Addagatla	702(A)		0		
3	Saumit Andhari	705(A)	Prof. D. M. Dalgade	Stock Market Analysis using Deep Learning	AI/ML	
	Sanamdeep singh	704(A)				
	Aparna Agnihotri	703(A)		Skin Cancer Detection using CNN		
4	Amreen Khan	752(A)	Dr. S. S. Gaikwad		AI/ML	
	Vaishnav Kanekar	780(A)				
	Tarang Padia	701(B)		Charity Donation system and	COMPUTER	
5	Siddhant Shirodkar	741(B)	Dr. S. Y. Ket	reward based trading platform	NETWORKS &	
	Manish Sharma	734(B)		using Blockchain.	SECURITY	
	Vikram Phonde	716(B)		D 17: 011 1	COMPUTER	
6	Aryan Patel	704(B)	Dr. S. Y. Ket	Real Time Object Identification	NETWORKS &	
	Raj Pawar	714(B)			SECURITY	
	Abhishek Prajapati	720(B)				
7	Kinjal Prabhu	719(B)	Prof. Anita Lahane	Predicting coronavirus clinical severity using Al	AI/ML	
	Arpit Sakhare	725(B)				

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8	PRERANA TALWAR	754(B)	Prof. D. S. Kale	New Topic-Social Media App	SE/PM	
8	ARUNDHATI RAINA	774(B)	Prof. D. S. Kale	using flutter		
	Aryan Jain	740(A)		Waste Management Website		
9	Dhruvkumar Jain	741(A)	Prof. S. P. Khachane	With Machine Learning	PM,AI/ML	
	Naitik Jain	742(A)		Features		
	Udita Shukla	771(B)		A Machine Learning		
10	Tanush Shetty	772(B)	Dr. Jyoti Deshmukh	Methodology for Diagnosing	AI/ML	
	Nayan Patil	773(B)		Chronic Kidney Disease		
11	Disha Sankhe	728(B)	Prof. Bhushan Patil	Dynamic Load Balancing in Cloud Computing using	COMPUTER NETWORKS &	
	Sayali Shirke	740(B)		Mutation based Swarm Optimization	SECURITY	
	Priyanshi Bavishi	708(A)		Analysing Stock Market		
12	Kanchan Choudhari	720(A)	Prof. Sumitra Sadhukhan	Reaction Using News	AI/ML	
	Sakshat Darne	721(A)	Gaariakriari	Sentiment		
	Bhavya badani	707(A)				
13	Aniket kankute	748(A)	Prof. Kaajal Sharma	Pnemonia detection system using CNN	AI/ML	
	Deep mayekar	767(A)				
	Adrian Dsouza	730 (A)			COMPUTER	
14	Vedant Lanjewar	760 (A)	Prof. S. P. Khachane	Real Time Network Based Intrusion Detection System	NETWORKS &	
	Abhishek Mahakal	763 (A)		,	SECURITY	
	Kartik Rokade	724(B)				
	Ashitosh Mohite	771(A)		Criminal Face Recognition	AI/ML, COMPUTER	
15	Mohammed Yusuf Siddiqi	744(B)	Prof. Suresh Mestry	System using Lenet Architecture	NETWORKS & SECURITY	
	Priyanka Rathod	723(B)				
	Jinay vora	764(B)				
16	Aishwarya Warkhande	767(B)	Prof. Bhushan Patil	Anomaly detection in surveillance video using deep learning approach	AI/ML	
	Devendra Yadav	769(B)				
	Rahul Mane	774(A)		Olever and a described which		
17	Omkar Gandhi	777(A)	Prof. Bhavesh Panchal	Glaucoma detection using CNN	AI/ML	
	Shubankar Chavan	779(A)				
	Ketaki Dhotre	728(A)		Handwritting to Text		
18	Harshali Ghumate	734(A)	Prof. Savita Lade	Conversion System using Deep Learning	AI/ML	
	Mayuri Mane	764(A)		Deep Learning		
	Riya Sankhe	729(B)		Sign Language Recognition		
19	Ninad Satam	730(B)	Prof. Priya Parate	Using Deep Learning	AI/ML	
	Sainam Satam	731(B)				
	Prathamesh Navnit Patil	710(B)				
20	Ritik Prakash Patil	711(B)	Dr. S. Y. Ket	News classification using AI	AI/ML	
	Rohan Rajendra Patil	712(B)				
	UJJWAL DIXIT	729(A)				
21	KSHITIJ JATEKAR	744(A)	Prof. D. S. Kale	Customer Segmentation	PM	
	KAUSTUBH MAHADIK	762(A)				

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	Manan Gosalia	735(A)				
22	Yash Jaiswar	743(A)	Prof. D. P. Kapse	Web based Application :	PROGRAMMING	
	Jeetendra Madrecha	761(A)		College Forum	ALGORITHMS	
	C A Aakansha	613(A)				
23	Durva Dev	625(A)	Dr. S. S. Gaikwad	Detection of Arrhythmia	DSA, AI/ML	
	Sejal Kore	656(A)				
	Rugvedi More	772(A)			AI/ML,	
24	Rutuja Harne	737(A)	Prof. D. M. Dalgade	Developing ML based model for financial fraud detection	COMPUTER NETWORKS &	
	Disha Date	722(A)			SECURITY	
	Ajay Arjunwadkar	706(A)		E		
25	Hitesh Bhalerao	709(A)	Prof. Savita Lade	Fine grained identification of clothing apparels	DSA, AI/ML	
	Kushal Kothari	757(A)				
	Rajvi Chokshi	717(A)		Automised traffic controling		
26	Mayun bodele	712(A)	Prof. Naina Kaushik	system using image	DSA	
	Rishabh bhura	711(A)		processing		
	Aniket Aashra	701(A)			COMPUTER	
27	Rucha Chotalia	719(A)	Prof. Bhavesh Panchal	Automated Surveillance System	NETWORKS &	
	Gauri Morye	773(A)			SECURITY, DSA	
	Ajay H. Desai	724(A)			AI/ML	
28	Khush Dave	723(A)	Prof. Preeti Satao	Epilepsy Seizure Prediction		
	Shubham Hedavkar	738(A)				
	Rahul Chauhan	714(A)				
29	29 Anikait Chavan	715(A)	Prof. D. Dhangar	HR Recruitment Shortlisting	PM	
	Shivraj Chavan	716(A)				
	Paras Kamble	746(A)				
30	Sahil Kamble	747(A)	Prof. Suresh Mestry	Crop prediction based on soil	AI/ML	
	Sebin Kannampuzha	749(A)		and climatic factors		
	Mudit Choksi	618(A)				
31	Sumedh Kurhade	658(A)	Prof. S. P. Khachane	Prediction of Sepsis using Machine Learning	AI/ML	
	Vedant Lahane	659(A)	-	J		
	Devrishab Karwa	750(A)				
32	Atharva Mangaonkar	765(A)	Prof. Anita Lahane	Creating A Chatbot	AI/ML, PROGRAMMING ALGORITHMS	
	Dhairya Mody	770(A)				
	Mangesh Jadhav	739(A)				
33	Akshay Kedar	751(A)	Dr. Jyoti Deshmukh	Sign Language Recognition	DSA, AI/ML	
	Pranali Khuspe	755(A)	Di. Syou Desimidan	System	DOA, AI/IVIL	
	Rohit Singh	746(B)	-			
	Saket Dhamapurkar	726(A)				
34	Aditya Dhaware	727(A)	Prof. Kaajal Sharma	Voice Cloning Model	AI/ML	
	Harsh Gandhi	732(A)				
	Ayush Dubey	631(A)				
	Mahesh Ghuge	633(A)		Voice Navigation Nove		
35	Karan Gupta	636(A)	Prof. Priya Parate	Voice Navigation News System	SE/PM	
	Shreyash Khodaskar	654(A)				
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Keshav Sharma		633(B)		5		
36	Pradyum Shetty	637(B)	Prof. Savita Lade	Directional Navigation algorithms comparison	SE/PM	
	Rajith Shetty	638(B)				
	Urvashi Thakre	757(B)	Prof. Sumitra Book Recommendations			
37	Nitika Thingalaya	759(B)	Prof. Sumitra Sadhukhan	Book Recommendations system	AI/ML	
	Shrusti Warekar	766(B)		-		
	Ninad Shirsat	742(B)		Stress and anxiety Detection		
38	Sumit Kumar Singh	747(B)	Prof. Deepak Gaikar	using facial cues and machine	AI/ML	
	Rajveer Solanki	749(B)		learning algorithms		
	Abhishek Yadav	768(B)				
39	Kashyap Vyas	765(B)	Prof. Naina Kaushik	Kaushik Air Board Using Open CV		
	Husain Thanawala	758(B)				
	Anurag Singh	745(B)		A Secure Federated Transfer		
40	Mohit Sharma	735(B)	Prof. Preeti Satao	Learning	AI/ML	
	Sanchita Shirur	743(B)	-	Framework		
	Aakanksha Patil	707(B)				
41	Shreyas Patil	713(B)	Prof. D. S. Kale	Autonomous drone system	AI/ML	
	Simran Pawar	715(B)				
	Omkar Salkade	726(B)			COMPUTER	
42	Varun Singh	748(B)	Prof. D. P. Kapse Intrusion Detection System		NETWORKS &	
	Varun Pillai	717(B)			SECURITY	
	Tejal Palwankar	602(B)				
43	Siddhesh Panchal	603(B)	Prof. Priyanka Bhilare Diabetic retinopathy mobilenet binary of		AI/ML	
	Ronak Patel	606(B)		,		
	Sahil Tanawade	755(B)				
44	Aniket Taral	756(B)	Prof. Priya Parate	Customer Attrition Analysis	SE/PM	
	Sumedh Thokal	761(B)				
4.5	Ahtesham Qureshi	721(B)	2 (2 2)	Real time object detection	COMPUTER	
45	Parth Patel	705(B)	Prof. D. Dhangar	using ssd and mobilenet	NETWORKS & SECURITY	
	Chaitanya Suralkar	751(B)				
46	Shubham Thokal	760(B)	Prof. Bhavesh Panchal	Personal Assistant Using Al	AI/ML	
	Abhay Vekhande	763(B)				
	Hrishikesh Naik	677(B)		IOT Deephoord For		
47	Manthan Rathod	676(B)	Prof. Deepak Gaikar	IOT Dashboard For Monitoring and Controlling	AI/ML	
	Swapnil yadav	670(B)	-	Applications		
	Sumedh Desai	678(A)		Attendance record		
48	Rohan Gaikwad	676(A)	Prof. Priyanka Bhilare	Attendence record maintaining system using	AI/ML	
	Saud Behlim	675(A)	1	facial recognition		
	Mohammad Salik Khan	753(A)		Multi-disease investigation		
49	Safwan Modak	769(A)	Dr. S. S. Gaikwad	through chest x-rays: a deep	SE/PM	
	Sakshi Manik	766(A)	-	ісаніну арргоасн		
	Apurva Somji	750(B)				
50	Shivani surve	752(B)	Prof. D. M. Dalgade	Exercise Guide and	DSA, SE/PM	
	Jayshree Salve	727(B)	-	Physiotherapy Assessment		

	Shreyash Ajay Bhamare	710(A)			SE/PM
51	Karan kadayat	745(A)	Prof. Preeti Satao	Automated Algorithmic Trading And Backtesting	
	Chinmay Patil	709(B)			
	Avinash Shevare	739(B)			
	Snehal Kolekar	778(B)		51	
52	Pranav Kadam	779(B)	Dr.Jyoti Deshmukh	Phishing Site Detection Using Machine Learning	AI/ML
	Mangal Karkhile	780(B)		_	

Project Domain(2021-2022)

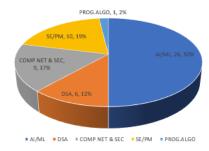


Table 2.2.3d BE Project Final List Domain Names (2020-2021)

Project Group No	Group Members	Roll Nos. (With Division)	Final Project Title	Name of Guide(Major-Project)	Domain Name	
	Parth Parikh	713(B)				
1.	Dhruvam Kothari	751(A)	Client Side Search using Spectral Bloom Filters	Prof. S. P. Khachane	PROG. ALGO	
	Mrunank Mistry	761(A)				
	Sahil Vartak	759(B)				
2.	Bhagyashree Wad	762(B)	Image Reconstruction using CNN	Prof. D.P.Kapse	AL/ML	
	Pratik Varandekar 757(B)					
	Nihal Satbhai	628(B)				
3.	Nobin Sahu	627(B)	Automated attendance system	Prof. D.S.Kale	AL/ML	
	Pramod Redkar	edkar 626(B)				
	Abhishek Jagushte	737(A)				
4.	Sourav Katkar	743(A)	Realtime Chatting Application on Android using Kotlin	Prof. Kaajal Sharma	E-Commerce	
	Avadhoot Khedekar	748(A)				
	Amit Nemade	706(B)				
5.	Soham Tale	747(B)	College Feedback System with Sentimental Analysis	Prof. D.M.Dalgade	AL/ML	
	Vijay Tembugade	750(B)	,			
	Devesh Pawar	717(B)	Real-Time Videoconferencing	Prof. Sumitra		
6.	Tanay Paralikar	712(B)	Progressive Web App using WebRTC	Sadhukhan	Network, DC	
	Anushree Vaidya	754(B)	Supervised learning approach to			
7.	Simran Vaidya	755(B)	detect phishing and malicious	Dr. S.Y.Ket	Security, AI/ML	
	Niraj Vesaokar	760(B)	web links			
•	Sarthak Somvanshi	745(B)	Creating Melodies with Evolving	D (D5''	AI/ML	
8.	Vinit Vaidya	756(B)	Recurrent Neural Networks	Prof. D.P.Kapse		
	Chinmay Vartak	758(B)				

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	Urvi Tambe	748(B)			
9.	Anvita Thingalaya	751(B)	Foul Language Comment Classification	Prof. Priya P. Parate	AI/ML
	Saloni Vichare	761(B)			
	Sanket Neman	607(B)			
10.	Sahil Palkar	608(B)	Devanagari Script Recognition using CNN	Prof. B.N.Panchal	AI/ML
	Sohail Pancha	609(B)	aomy or m		
	Shubham Rathod	725(B)			
11.	Parth Sawant	731(B)	Stock Market Analysis using	Prof. Preeti Satao	AI/ML
	Pavitrakumar Panigrahi	710(B)	Machine Learning		
12.	Saarah Patel	715(B)	Brain tumor detection and	Dr. S.S.Gaikwad	CE/DM AL/MI
12.	Ajinkya Shetty	736(B)	classification	Dr. S.S.Gaikwad	SE/PM, AI/ML
	Sampada Taralgatti	749(B)	Application of Machine Learning		
13.	Aparna Nair	705(B)	for Higher Education	Prof. Priya P. Parate	AI/ML
	Tejaswini Sawant	732(B)			
	Himanshu Rathod	724 (B)			
14.	Manali Shivapurkar	739 (B)	Detecting Personality Traits Using Handwriting Analysis	Prof. Naina Kaushik	AI/ML
	Shantanu Singh 742 (B)				
15.	Het Shah	733(B)	Wearable sensors and machine learning algorithm to detect	Prof. D.J. Dhangar	AI/ML
	Shrutika Salian	729(B)	anxiety and depression.		
	Aniket Rai	721(B)	Textaphone - App designed for		
16.	Bhagyesh Rane	722(B)	social media communication between differently abled	Prof. Suresh Mestry	AI/ML
	Abhishek Rathod	723(B)	people.		
	Hardik Shah	630(B)	Phiching wohoite Detection		CN & Socurity
17.	Dharmik Timbadia	646(B)	Phishing website Detection based on Machine Learning	Prof. S. V. Lade	CN & Security, Al/ML
	Vedant Shah	634(B)			
	Kannan Nadar	703(B)	Attandance record maintaining		
18.	Priyash Nagarkar	704(B)	Attendance record maintaining system using facial recognition	Prof. Anita Lahane	DSA
	Sidhesh Toraskar	753(B)			
	Ashish Sitaprao	744(B),	Daal Tima Vana Tarinina		
19.	Swati Shukla	741(B),	Real-Time Yoga Training Application	Prof. B.N.Panchal	SE/PM
	Faaiza Sheikh	735(B)			
	Anuradha More	773(B)	Spam Review/Comment		
20.	Mrunal Kashte	776(B)	Detection and Removal Using	Dr. Jyoti Deshmukh	AI/ML
	Hardika Thakur	769(B)	Deep Learning		
	Omkar R Chorghe	715 (A)	Facial recognition to detect		
21.	Nachiket K Digha	720 (A)	Facial recognition to detect mood and suggest songs	Prof. S. V. Lade	AI/ML
	ShailendraSingh S. Bisht	709 (A)	accordingly		
	Rahul Malgundkar	756(A)	A Novel Approach for tracking		011.0
22.	Umang Kholakiya	750(A)	Effectiveness and potential of E- teaching/learning using Python	Prof. Bhushan M. Patil	CN & SECURITY
	Shivam Mishra	760(A)	Programming		
	Priyanka Pawar	718(B)			
23.	Vaishnavi Naik	752(B)	Image Captioning using Deep Learning	Prof. Priyanka Bhilare	AI/ML
	Gauri Ghodake	717(A)	-		

5/16/24,	12:01 PM				Print
	Rishabh kevansia	746(A)			
24.	Chirag Bangera	759(A)	Application of AI in Doom	Prof. Dipak Gaikar	AI/ML
24.	Omkar Sabnis	764(B)	Platform	FIOI. DIPAK GAIKAI	Al/IVIL
	Sagar Tiwari	782(B)			
	Yash Bafna	764(A)			
25.	Vikram Kini	773(A)	ACUITY - A student alertness monitoring system	Prof. S. P.Khachane	Network
	Rushabh Kheni	749(A)	g -y		
	Nandkishor Patil	711(B)			
26.	Arbind Yadav	763(B)	Cricket score prediction	Prof. D.M.Dalgade	AI/ML
	Pranjal Shukla	740(B)			
	Imran Arkate	706(A)			
27.	Vidyasagar Akhumukhi	711(A)	Smart ambulance system	Dr. S.S.Gaikwad	SE/PM, AI/ML
	Vishal kumar	771(A)			
00	Sahil Murthy	602(B)	Adambia Tarffia Managaran	Do hot Dochoods	A 1 / A 41
28.	Anaadya Shetty	637(B)	Adaptive Traffic Management	Dr. Jyoti Deshmukh	AI/ML
	Mukta Keluskar	765(A)			
29.	Suresh Choudhary	716(A)	Video Recommendation System based on Human Interest	Prof. Dipak Gaikar	AI/ML
	Yash patel	766(A)	bacca cirriaman morcot		
00	Riya Gusain	671(B)	Recognition-based Automobile	B (A)	D0.4
30.	Ajay Malusare	672(B)	Specification Application.	Prof. Anita Lahane	DSA
	Sakshi More	670(B)	Recognition-based Automobile	5 (6) ()	204
31.	Ruchi Isaac	679(B)	Specification Application.	Prof. S. V. Lade	DSA
	Kadambari Mone	674(B)			
32.	Shubha Hiwarale	675(B)	Multilingual Conversion and Text summarization	Prof. Suresh Mestry	AI/ML
	Tanvi Kapote	678(B)	Summanzation		
33.	Amisha Ghevade	728(A)	Automated Personality classification for e-recruitment	Prof. Bhushan M. Patil	AI/ML
55.	Sakshi Kumar	754(A)	on the basis of CV using machine learning	Tion. Bridshari W. T au	AllVIL
	Advait Krishnakumar	701(A)	Driver Drowsiness Detection		
34.	Moosa Ansari	702(A)	using Face Recognition	Prof. S. P.Khachane	AI/ML
	Shubham Chiplunkar	714(A)			
	Dhwanit Pimple	720(B)	Foldison Nove Antido Detection		
35.	Tejas Shenoy	768(B)	Falsified News Article Detection using Machine Learning	Prof. Priya P. Parate	AI/ML
	Neeraj Singh	777(B)			
	Akshay mitra	621(a)			
36.	Anugreh raina	642(a)	Covid 19 detection with help of deep learning	Dr. S.Y.Ket	AI/ML
	Rohit gurkhe	632(a)			
	Rohit Kedia	745(A)			
37.	Divesh Jain	738(A)	Speech Emotion Recognition in Audio and Video	Dr. S.Y.Ket	AI/ML
	Pooja Maru	758(A)			
	Manasi Hodavadekar	733(A)	Medical Unique Identification		
38.	Archita Patil	716(B)	Card	Prof. B.N.Panchal	PROG.ALGO
	Neeshit Bundele	712(A)			
	Mallika Gaikwad	722(A)	Multi-Adaptive Real-time Vehicle		
39.	Mrudula Joshi	741(A)	detection based on decision- level fusion framework by	Prof. Bhushan M. Patil	CN & SECURITY
	Rucha Desai	770(A)	combining LiDAR and camera		32.3.

5/16/24,	12:01 PM				Print
	Aditya Aravind	603(A)			
40.	Shivani Jadhav	635(A)	Signature Forgery Verification System	Prof. D.P.Kapse	CN & SECURITY
	Arshunnu Bare	605(A)	,		
	Amol Mane	757(A)	QR Code Implementation in Car		
41.	Dheeraj Katare	778(A)	Parking	Prof. Sumitra Sadhukhan	AI/ML
	Varun Dubey	781(A)	Locator		
	Vishal mote	701(B)	Smart Stick for Blind People		
42.	Ankita Patel	714(B)	Using Aurduino and Ultrasonic	Prof. D.J. Dhangar	AI/ML
	Pradip pimpare	719(B)	Sensor		
	Jitesh Gawas	627(A)			
43.	Jesika Jogi	640(A)	Handwritten equation solver using machine learning	Prof. D.M.Dalgade	AI/ML
	Srushti Desai	618(A)			
	Satish Gandhi	625(A)	DEPRESSION PREDICTION		
44.	Tanay Godse	629(A)	USING MACHINE LEARNING	Prof. Priyanka Bhilare	AI/ML
	Hith Jain	639(A)	AND SENTIMENT ANALYSIS		
	Mahek Khanna	647 (A)	AUTOMATIC ACCIDENT		
45.	Shreyans Kothari	652 (A)	DETECTION AND ALERT	Dr. S.S.Gaikwad	SE/PM
	Ashutosh Kudale	653 (A)	SYSTEM		
	Srushti 755(A) Mahindrakar				
46.	Shrusti Bhor	708(A)	Covid analysis and forecasting	Prof. D.S.Kale	AI/ML
	Yash Bandekar	704(A)			
	Bhagyashree S Nemade	777-(A)			
47.	Mitali Pravin Patil	776-(A)	Blockchain-Based E-Voting System	Prof. Preeti Satao	CN & SECURITY
	Pratiksha L Gaikwad	779-(A)	Gjoto		02001111
	Shubham ghuge	772(A)			
48.	Shweta jadhav	774(A)	Secure Two Factor Authentication using QR code	Prof. Preeti Satao	CN & SECURITY
	Akansha gorivale	775(A)	, tautomasausmasmig Q. Coous		02001111
	Moumita Biswas	710(A)			
49.	Gauri Chavan	713(A)	Classification of Health Records	Prof. D.S.Kale	AI/ML
	Vaishali Gawai	726(A)			
	Aahil Kazi	644 (A)			
50.	Anuj More	663(A)	Offensive Text And Image Detection	Prof. Kaajal Sharma	AI/ML
	Yash Moily	662(A)			
	Rohit gupta	730(A)			
51.	Pradeep hore	634(A)	Indian Currency Recognition And Authentication	Prof. Naina Kaushik	AI/ML, CN & SECURITY
	Shashikant gupta	631(A)			
	Soham Bhole	784(A)	DETECTION OF MARINE		
52	Bhushan Mere	785(A)	LITTER USING DEEP VISUAL	Dr.Jyoti Deshmukh	AI/ML
	Charmi Gharat	786(A)	DETECTION MODEL		

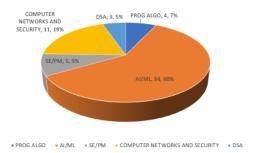


Table 2.2.3e Best Project 2022-23

Grp No	Group Members Names	Guide Name	Project Title	PI Indicators
	Bandgar Mamta			PO1: 1.1.1, 1.3.1, 1.4.1
	Kathe Vedant			PO2: 2.1.1
1.	Khair Sakshi	Prof. B.N.Panchal	Cuctoffici Citatii i i Culculcii	PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2
	Lavange Vanshita		system for Telecommunications	PO4: 4.1.3, 4.2.1
				PO5: 5.1.1, 5.2.1
				PO6: 6.1.1
	Yogita Chaudhari			PO1: 1.1.1, 1.3.1, 1.4.1
	Aniket Chauhan			PO2: 2.1.1
5.	Divyanka Gharat	Prof. S. V. Lade	Cyber Tipline	PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2
J.	Shubham Gupta	FIOI. S. V. Laue		PO4: 4.1.3, 4.2.1
	Shubham Gupta			PO5: 5.1.1, 5.2.1
				PO8: 8.2.2
	Husain Dahodwala		Career Recommendation Model for Students based on Machine Learning Algorithms	PO1: 1.1.1, 1.3.1, 1.4.1
	Shlok Jagushte			PO2: 2.1.1
14.	Shrey Mistry	Prof. Dipak Gaikar		PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2
	Fardeen Shroff			PO4: 4.1.3, 4.2.1
				PO5: 5.1.1, 5.2.1
	Harshal Sawant			PO1: 1.1.1, 1.3.1, 1.4.1
	Kartik Shelar			PO2: 2.1.1
25.	Khushi Shetty	Prof S P Khachana	Best Crop Recommendation System and Crop Disease	PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2
20.	Priyam Tamrakar	1 Tot. O.F. Milacriane		PO4: 4.1.3, 4.2.1
	Filyalli lallilakai			PO5: 5.1.1, 5.2.1
				PO12: 12.3.2
	Hiimaal Datal			PO1: 1.1.1, 1.3.1, 1.4.1
	Ujjwal Patel			PO2: 2.1.1
0.4	Takshil Sanghvi			PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2
34.	Sagar Singh	Ргот. Бірак Gaikar	and Weather forecasting using Machine Learning	PO4: 4.1.3, 4.2.1
	Om Vispute			PO5: 5.1.1, 5.2.1
				PO6: 6.1.1
	1	<u> </u>	l .	

Table 2.2.3f Best Project 2021-22

Grp No	Group Members Names	Guide Name	Project Title	PI Indicators

			Plint	
				PO1: 1.1.1, 1.3.1, 1.4.1
				PO2: 2.1.1
4.	Aparna Agnihotri Amreen Khan	Dr. S. S. Gaikwad		PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2
	Vaishnav Kanekar		CNN	PO4: 4.1.3, 4.2.1
				PO5: 5.1.1, 5.2.1
				PO6: 6.1.1
				PO1: 1.1.1, 1.3.1, 1.4.1
				PO2: 2.1.1
	Adrian Dsouza Vedant Lanjewar	Prof. S. P.	Real Time Network Based	PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2
14.	Abhishek Mahakal	Khachane	Intrusion Detection System	PO4: 4.1.3, 4.2.1
				PO5: 5.1.1, 5.2.1
				PO6: 6.1.1
				PO8: 8.2.2
			Automated Personality classification for e-recruitment on the basis of CV using	PO1: 1.1.1, 1.3.1, 1.4.1
	Mangesh Jadhav Akshay Kedar Pranali Khuspe Rohit Singh			PO2: 2.1.1
33.				PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2
				PO4: 4.1.3, 4.2.1
				PO5: 5.1.1, 5.2.1
				PO1: 1.1.1, 1.3.1, 1.4.1
	Chaitanya Suralkar			PO2: 2.1.1
46	Shubham Thokal	Prof. Bhavesh Panchal	Personal Assistant Using Al	PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2
	Abhay Vekhande			PO4: 4.1.3, 4.2.1
				PO5: 5.1.1, 5.2.1
				PO1: 1.1.1, 1.3.1, 1.4.1
				PO2: 2.1.1
39	Abhishek Yadav Kashyap Vyas	Prof. Naina	Virtual Pen Using Open CV	PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2
	Husain Thanawala	Kaushik		PO4: 4.1.3, 4.2.1
				PO5: 5.1.1, 5.2.1
				PO12: 12.3.2
		l .		

Table 2.2.3g Best Project 2020-21

Grp No	Group Members Names	Guide Name	Project Title	Publication	PI Indicators
22.	Rahul Malgundkar Umang Kholakiya Shivam Mishra	Prof. Bhushan M. Patil	A Novel Approach for tracking Effectiveness and potential of E-teaching/learning using Python Programming	IJRASET	PO1: 1.1.1, 1.3.1, 1.4.1 PO2: 2.1.1 PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2 PO4: 4.1.3, 4.2.1 PO5: 5.1.1, 5.2.1 PO6: 6.1.1 PO12: 12.3.2

10/24,	12.01 FW				FIIII
					PO1: 1.1.1, 1.3.1, 1.4.1
39.	Mallika Gaikwad Mrudula Joshi		SVM based method for Vehicle detection by combining Haar and HOG	IJRASET	PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2
	Rucha Desai		features		PO4: 4.1.3, 4.2.1
					PO5: 5.1.1, 5.2.1
					PO1: 1.1.1, 1.3.1, 1.4.1
					PO2: 2.1.1
12	Dr. S.S.Gaikwad	INCET, IEEE	PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2		
	Ajinkya Shetty		Classification	ILLL	PO4: 4.1.3, 4.2.1
					PO5: 5.1.1, 5.2.1
					PO6: 6.1.1
					PO1: 1.1.1, 1.3.1, 1.4.1
		Drot D D Kanco	Image Reconstruction using		PO2: 2.1.1
2.	Sahil Vartak Bhagyashree Wad			IJCER-1	PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2
	Pratik Varandekar		CIVIN		PO4: 4.1.3, 4.2.1
					PO5: 5.1.1, 5.2.1
					PO12: 12.3.2
					PO1: 1.1.1, 1.3.1, 1.4.1
					PO2: 2.1.1
51	Rohit gupta Pradeep hore	Prof. Naina Kaushik	Indian Currency Recognition And Authentication	IJRASET	PO3: 3.1.1, 3.1.2,3.1.6, 3.2.2
	Shashikant gupta	Nausilik	And Additionation		PO4: 4.1.3, 4.2.1
					PO5: 5.1.1, 5.2.1
					PO6: 6.1.1

2.2.4 Initiative related to industry interaction (15)

Institute Marks: 15.00

2.2.4. Initiatives related to industry interaction (15)

Industry Institute Interaction Program has been introduced by the Institute to increase interaction between the Institute and industries. This gives the students exposure to industrial atmosphere and helps to prepare them for jobs in various companies, by exposing them to newer technologies. Such programs bridge the technical gap that students normally would encounter between Academia and the Industry.

During the vacation students are motivated for Internship.

- To strengthen interaction with industries and to keep our students updated with the latest trends being followed in the industry, MoUs were signed with the following companies.
- Eminent Persons from industry are inducted in Academic council, Departmental Advisory board Institute Innovation Council. for closure participation in shaping the academic and administrative activities.
- · Invited industry experts for interaction sessions with students.
- · Regularly conducting Alumni meet
- · Motivating students to take up an internship at industry

Some of the highlights are listed below:

I. the MoU between AI Probably Ecademy Pvt Limited with CESS committee of Computer Engineering Department of Rajiv Gandhi Institute of Technology in 22 july 2021

II. One day workshop was conducted on Word press on 1 May 2021.by Aniket Rai. A workshop on 'Ecommerce Web development using WordPress' under the reach and teach initiative. The aim of this short workshop was to build an E-commerce website using Word Press which would cover all the basics and beginners would be able to understand the new concepts very easily and get familiar with it.

Impact: Majority of students which are going for internship are getting Pre Placement Offer(PPO) from multinational companies. Industries like Credit Sussie takes contest for internship. After completing the internship students their experience to the classmates and junior students.

III. A Three day workshop was conducted on Cloud Computing from 31 Mar 2021 to 02 April 2021. By Mr. Yogesh Jadhav and lasted for more than 2 hours each day with more than 100 students attending the webinar. The speaker for the workshop was Mr. Yogesh Jadhav, a professor at Amity University, Mumbai. He is also a corporate trainer and an NS3 developer and has written and published several research papers as well

Table 2.1.2a 2023-2024

S.No	. Gap	Action Taken	Date- Month- Year	Resource Person with designation	% of students	Relevance to POs, PSOs
1	usage of Modern tools, life-long learning, professional engineering practice.	NASA AI Seminar	31th July, 2023	Dr. Ravi Margasahayam National Space Society USA Mumbai Chapter	, 96%	PO1,PO3,PO8,,PO12, PSO1,PSO2
2	usage of Modern tools, life-long learning, professional engineering practice.	Data Science Seminar	12th September 2023	Mr. Kareem Shah, Infodesk 'Compute Education	82.29%	PO1,PO2,PO3, PO12,PSO1,PSO2
3	Usage of Modern tools, ethical principles, professional ethic	Cyber Security Seminar	12th October, 2023	Mr.Gaurav Kumar, The Tech Unique	96%	PO1,PO3,PO8,PO12,PSO1,PSO2
4	professional ethics,professional engineering practice	Abroad Studies Seminar	October,	Mrs. Lalita Datar, Genius Creation.	80%	PO1,PO6,PO8,PO12, PS01,PSO2
5	professional ethics,professiona engineering practice	Abroad Studies Seminar	October,	Mrs. Purvi Tolia, Genius Creation.	94%	PO1,P06,PO8,PSO1,PO12,PSO2

statistics,

mathematics,

Data Analytics^{17th} Seminar October, 2023 professional engineering practice.

89.33% PO1,PO2,PO3,PO12,PSO1,PSO2

Table 2.1.2b 2022-2023

S.No	. Gap	Action Taken	Date- Month- Year	Resource Person with designation	students	Relevance to POs, PSOs
1	Identify, formulate research literature, and analyze complex engineering problems	Recursion 4.0 Hackathon, Kavach 2023		RGIT CESS & RGIT CODECELL	46% (23 out of 50 teams)	PO1,PO2,PO3,PO4 ,PO8,PO10,PO12,PSO1,PSO2
2	usage of Modern tools, life-long learning, professional engineering practice.	Cloud Computing Seminar	28th February, 2023	Prof. Yogesh Jadhav, Infodesk Compute Education.	80% (120- 150)	PO1,PO2,PO3,PO5,PO8,PO12, PSO1,PSO2
3	Usage of Modern tools, ethical principles, professional ethic	Cyber Security Seminar	28th September 2022	Mr.Ansh Bhide, MrWebsecure Infosolutions Pvt Ltd		PO1,PO3,PO8,PO9,PO12,PSO1,PSO2
4	professional ethics,professiona engineering practice	Life After Engineerinç	29th 9September 2022	Ms. Deepali Shinde, ,Walmart Global Technology	92.30%	PO1,PO3,PO8,PO11,PO12,PSO1,PSO2
5	professional ethics,professional engineering practice.	Abroad Studies Semin	11th August, 2022		80%	PO1,P02PO6,PO8,PO12,PSO1,PSO2
6	statistics, mathematics, professional engineering practice	Data Analytics Seminar	12th August, 2022	Mr. Rakesh Raut, Wipro.	76.67%	PO1,PO2,PO5,PO8,PO12,PSO1,PSO2
7	professional ethics,professional engineering practice.	l _{Overseas} Education Seminar	25th January, 2023	Mrs. Gunjan Arora, Overseas Education	96.15%	PO1,PO2,PO6,PO8,PO12,PSO1,PSO2

Table 2.1.2c 2021-2022

S.No	Gap	Action Taken	Date- Month- Year	Resource Person with designation	% of students	Relevance to POs, PSOs	
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					Prii	iit.
1	usage of Modern tools, life-long learning, professional engineering practice.	Cloud Computing	10th September to 12th September 2022	Prof.Yogesh Jadhav, Amity University	88	PO1,PO2PO3,PO5,PO8,PO12, PSO1,PSO2
2	usage of Modern tools, life-long learning, professional engineering practice.	Recursion 3.0 Hackathon	21st April to 22nd April 2022	RGIT CESS AND RGIT CODECELL	20 teams from across nation	PO1,PO3,PO8,PO12,PSO1,PSO2
3	usage of Modern tools, life-long learning, professional engineering practice.	Webinar on Introduction to Flutter	13th February, 2022	Mr.Ryan D'Silva	83.33	PO1,PO2,PO6,PO8,PO12,PSO1,PSO2
4	statistics, mathematics, professional engineering practice.	DSA Webinar	11th December, 2021	Ms.Kirti Gera	35	PO1,PO2,PO5,PO8,P012,PSO1,PSO2
5	Identify, formulate, research literature, and analyze complex engineering problems.	Codertine 2.0 Coding Competition	13th November, 2021	RGIT CESS AND RGIT CODECELL	45 participants across the nation	PO1,PO3,PO4,PO8,PO10,PO12,PSO1,PSO2
6	Usage of Modern tools, ethical principles, professional ethics.	Webinar on Cyber Security	28th September,2021	Mr.Shuvamoy Roy	88	PO1,PO3,PO8,PO12,PSO1,PSO2
7	Communicate, professional ethics, professional engineering practice.	Awaken the Entrepreneur in You	2nd September, 2021	Mr.Niket Sarvaiya	84.62	PO1,PO2,PO6,PO8, P012,PSO1,PSO2
8	Usage of Modern tools, ethical principles, professional ethics.	Cyber Security	28th August, 2021	Mr.Saikumar M	84.62	PO1,PO3,PO8, P012,PSO1,PSO2
9	usage of Modern tools, life-long learning, professional engineering practice.		22nd August, 2021	Mr.Parth Sharma	80	PO1,P03,PO8,PO12,PSO1,PSO2
10	Professional ethics,professional engineering practice.	1	31 st January, 2021	Ms.Harshita and Mr.Nivesh	92.31	PO1,P02,PO6,PO8,PO12,PSO1,PSO2

Table B.2.1.2c 2020-2021

S.No.	Gap	Action Taken	Date- Month- Year	Resource Person with designation	% of students	Relevance to POs, PSOs
1	professional ethics,professional engineering practice.	Microsoft Webinar	8th May, 2021	Mr.Amit Patil, Microsoft Team	80	PO1,PO3,PO5,PO8,PSO1,PSO2
2		Wordpress Workshop	1st May, 2021	RGIT CESS AND RGIT CODECELL	84.62	PO1,PO2,PO3,PO5,PO8,PO12,PSO1,PSO2
3	Identify, formulate, research literature, and analyze complex engineering problems.	Cloud Computing Workshop	31st March,2021 to 02nd April,2021	Mr.Yogesh Jadhav	92.85	PO1,PO3,PO4,PO8,PO10,PO12,PSO1,PSO2
4	Identify, formulate, research literature, and analyze complex engineering problem.	Recursion 2.0 Hackathon	20th and 21st March, 2021	RGIT CESS AND RGIT CODECELL	1	PO1,PO3,PO4,PO8,PO10,PO12, PSO1,PSO2
5	professional ethics,professional engineering practice.	GRE Webinar	12th February,2021	Mr.Ajit Singh, Endeavour Classes	85	PO1,PO2,PO6,PO8,12,PSO1,PSO2
6	professional ethics,professional engineering practice.	GRE Webinar	11th February,2021	Mr.Alok Bansal, Endeavour Classes	80	PO1,PO2,PO6,PO8,12,PSO1,PSO2
7	statistics, mathematics, professional engineering practice.	Data Science Webinar	6th February, 20221	Mr.Amit Naik and Mr.Sukamal Das	83.33	PO1,PO2,PO6,PO8, PO12,PSO1,PSO2
8	practice	Webinar on Development of Recommendation Engine using Python	25 th January, 2021	Mr.Parth Sharma	84.62	PO1,PO2,PO6,PO8, PO12,PSO1,PSO2
9	analyze complex	Codertine 2.0 Coding Competition	31st October, 2020	RGIT CESS AND RGIT CODECELL	More than 80 students from all over India	PO1,PO3,PO4,PO8,PO10,PO12,PSO1,PSO2
10	professional ethics,professional engineering practice.	Career Counseling	11th October, 2020	Mr.Pankaj Mehta and Mr.Manoj Kansara	80	PO1,PO2,PO6,PO7,PO10,PO12,PSO1,PSO2
11	documentation, make effective	Master of Business Administration Webinar	10th October, 2020	Mr.Gejo Sreenivasan	83.33	PO1,PO2,PO3,PO10,PO12,PSO1,PSO2
12	lethics protessional	Student Guide to Approach Capstone Project	2nd October,2020	Mr.Deepanshu Sonparote and Mr.Ayush Singh	77.78	PO1,PO2,PO6,PO8,PO12,PSO1,PSO2

13	Professional ethics,professional engineering practice.	Crack GRE Webinar	September and 17th	Mr.Saezal Shah and Mr.Alok Bansal	76.92	PO1,PO2,PO6,PO8,PO12,PSO1,PSO2	
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A Sample CESS Report for 2021-22 is shown below

A Sample CESS Report for 2021-22 is shown below

MANJARA HARLEABLE TRUST
RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

(Permanently Affiliated to University of Mumbai) Department of Computer Engineering



Webinar on Cyber Security

The webinar helped students gain more perspective about various aspects of what IT security is & what role does cyber security play in it.

 ${ \color{red} \textbf{Outcome:}} \\ \bullet \quad \text{The seminar helped students to gain a standpoint about what cyber security & }$

Resource person: Mr.Shuvamov Roy

Percent of students that attended: 88%(176 out of 200)

Structure of the event:

• Exposure to career paths and scope in the field of Cyber Security.

Gap bridged: Usage of Modern tools, ethical principles, professional ethics

INDIRECT ATTAINMENT

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO1 2	PS0 1	PSO 2
2	-	1	-	-	-	-	2	-	-	,	2	2	1

Some samles for MoU are shown below

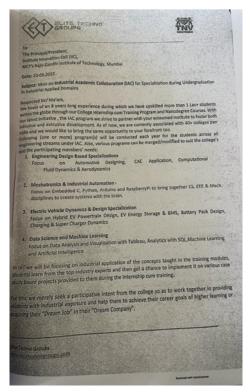


fig MoU on Indurstrial Academic Collaboration (IAC) with Elite Techno Groups

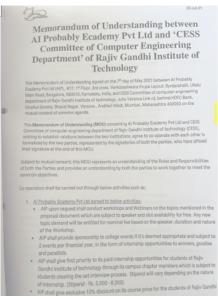


Fig MoU between AI Probably Ecademy pvt Ltd and CESS Committee of Computer Engineering

2.2.5 Initiative related to industry internship/summer training (15)

Institute Marks: 15.00

2.2.5. Initiatives related to industry internship/summer training (15)

(Mention the initiatives, implementation details and impact analysis)

Students are encouraged to take internship for which the University renders support so as to appraise their knowledge.

All the students who go for such internships exhibit enhanced skills, to do related project and invariably find employment in similar industries.

A.Initiatives

The internship coordinator encourages to training or internship, during their pre-final year vacation period. This enables the students:

1)To gain hands-on experience in implementing whatever they have learnt in their curriculum. 2)To train themselves on the state-of-the-art equipment's and standards used by the industries. 3)To present themselves as complete professionals, when they go for placements.

B.Arranging for Internship (implementation details)

- 1. Students will choose a domain that they come across in their academic and find the industries available on that particular domain in the different industries and in the internshala web link.
- 2. Students will then approach the department for getting approval.
- 3. The department will issue the necessary documents like a permission or request letter to the concerned industry.
- 4. After the consent of the industry, the students will attend the training program in the respective industries.

C.Impact Analysis of Industrial Training

An internship is an experiential learning opportunity that offers an invaluable chance for students to network and build crucial professional connections before they even graduate. For some students, it is a stepping-stone to bonus opportunities within the same organization, including a full-time job a case study is attached below. The more people you meet in the professional world with the same interest, the higher your chances to grow as a professional. You will get to know how these people work, what strategies they use to tackle a difficult situation, and how they get the job done. Different people have different skills. Meeting them and watching them work will help you understand how to work with different people and in various work environments. You can use their strategies and reinvent them for your circumstances.

- 1. Industry exposure in terms of latest trends in the software industry and their culture.
- 2. International training/internship paves way for opportunities of higher education in abroad.
- 3. through Analysis it is observed that students are opting for their internship in the domain of Software Engineering and Project Management the most and also analysis shows that

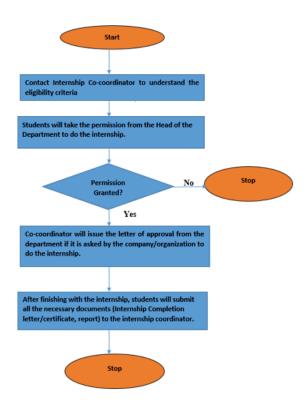


Fig 2.2.5 a. Process of Internship

Impact Analysis Internship: Case study

1. Ms. Neha Bhange from BE Computer had done the internship as Software Front End Developer in React JS, JavaScript, HTML, CSS, and Tailwind CSS at 404 Minds Technologies and got placed in the same domain and in the same company.



Fig 2.2.5 b. Internship Certificate



Dear Ms. Neha,

We are pleased to offer you, the position of Frontend Developer with 404Minds (the 'Company') on the following terms and conditions:

1. Commencement of employment Your employment will be effective, as of 1st June, 2023.

Subject: Appointment for post of Frontend Developer

2. Job title
Your job title will be Frontend Developer, and you will report to Mr. Tushar

3. Salary Your CTC will be ₹30,000/- per month starting from 1st June, 2023, working full time. You are required to keep your salary information confidential. Your performance will be reviewed annually and the CTC adjusted accordingly.

You will be posted at Airoli, Navi Mumbai. You may however be required to work at any place of business which the Company has, or may later acquire

The normal working days are Monday through Friday. You will be required to work for such hours as necessary for the proper discharge of your duties to the Company. The normal working hours are from 9:30am to 6:30pm and you are expected to work not less than 45 hours each week, and if necessary for additional hours depending on your responsibilities.

Registered Office: A-788, Kamla Nagar, Agra - 282005, Uttar Pradesh Email: info@404minds.com | Phone: 080-41600251 | Website: 404minds.com

Fig 2.2.5c.Job Offer Letter

June 1, 2023

2. Mr. Alok Yadav from BE Computer had done the internship as Software at Bytelearn Edtech Pv. Ltd. and got placed in the same domain and in the same company.



Fig 2.2.5d. Internship Offer Letter



Fig 2.2.5e. Company Offer Letter

3. Mr. Shaikh Mohammed Asaad from BE Computer had done the internship as Full Stack Developer at Remitbee Inc and got placed in the same domain and in the same company.

Remitbee

Mr. Mohmmed Asaad Shaikh No. A2/405, Neelratna Co-op Hsg. Society, Mapkhan Nagar, Marol Naka, Andheri East, Mumbai, Maharashtra 400059

Re: Congratulations - Remitbee Job Offer

On behalf of Remitbee Inc., it is my pleasure to officially offer you the Fullstack Developer Internship at Remitbee Inc. Your skills and experience are an excellent match for our company, and we are excited about the possibility of you joining our team!

- thout the possibility or you are.

 I. Position

 B. Title: PSD Internship

 B. Responsibilities:

 At least have knowledge in backend technologies like Node is, Express, Sequelize

 At least have knowledge in backend technologies like Node is, Express, Sequelize

 Experience in Database like MySQL and/or PostgreSQL

 Comfortable applying engineering best practices for Test Driven Development, integration testing version control, release management, work estimation and planning

 You know how to use Git.

 You are passionate about code quality. Writing tests and documentation belong to your natural workflow.

 design, programmed.

 A history of activ.

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Fig 2.2.5f. Internship Offer Letter



03/08/2023

Mr. Mohmmed Asaad Shaikh No. A2/405, Neelratna Co-op Hsg. Society, Mapkhan Nagar, Marol Naka, Andheri East, Mumbai, Maharashtra 400059

Re: Congratulations – Remitbee Full time Opportunity Offer

Dear Mohmmed Asaad,

On behalf of Remitbee India Pvt Ltd. it is my pleasure to officially offer you the Full stack Developer role at Remitbee India Pvt Ltd. Your skills and experience are an excellent match for our company, and we are excited about the possibility of you joining our team!

- Experience to work with Rest and GraphQL APIs

 You know how to use Git.

 A thirty of active contributions to open-source projects.

 A thirty of active contributions to open-source projects.

Fig 2.2.5g.Job Offer Letter

Print

Summery sheets for Internship Year wise is shown below

Table 2.2.5a INTERNSHIP REPORT 2022-23

	YEAR					
SUMMARY	SE	TE	ВЕ			
Total Number of Students in the Class:	156	146	157			
Number of Students Completed Internship:	15	15	18			
Number of Companies:	48	I	I			
Company Sector:	Enginee	ring and IT				
Incorporation Status:	Private and Government					

Table 2.2.5b INTERNSHIP REPORT 2021-22

0.11111	YEAR						
SUMMARY	SE	TE	ВЕ				
Total Number of Students in the Class:	158	156	156				
Number of Students Completed Internship:	09	40	15				
Number of Companies :	59						
Company Sector:	Enginee	ring and IT					
Incorporation Status :	Private a	nd Governme	ent				

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Print Table 2.2.5c INTERNSHIP REPORT 2020-21

SUMMARY	YEAR				
SUMMARY	SE	TE	ВЕ		
Total Number of Students in the Class:	157	157	149		
Number of Students Completed Internship:	17	40	35		
Number of Companies :	80				
Company Sector:	Engineering and IT				
Incorporation Status :	Private a	ınd Governme	ent		

Table 2.2.5d INTERNSHIP REPORT 2019-20

	YEAR				
SUMMARY	SE	TE	BE		
Total Number of Students in the Class:	150	158	156		
Number of Students Completed Internship:	37	48	28		
Number of Companies :	100				
Company Sector:	Engineering and IT				
Incorporation Status :	Private and Government				

Table 2.2.5e INTERNSHIP REPORT 2018-2019

SUMMARY	YEAR				
SUMMARY	SE	TE	BE		
Total Number of Students in the Class:	166	158	150		
Number of Students Completed Internship:	17	47	11		
Number of Companies :	65				
Company Sector:	Engineering and IT				
Incorporation Status :	Private and Government				

Table 2.2.5f Details of the students completed Internships for the YEAR 2022-2023

	Student					Duration	
Sr. No	Name	Year	Internship Topic	Domain	Company	From Date	To date
1	Ayush Pravin Hiwale	SE	Fund Raiser/Strategy Developer	Software Engineering and Project Management	Jankalyan Multipurpose Education Society	13-Aug-22	19-Aug-22
2	Krishay Nair	SE	Web Developer	Software Engineering and Project Management	easycompany	16-Nov-22	16-Feb-23

, .							
3.	Ansari Mohd Amaan Mohd Shahid	SE	Web Developer	Software Engineering and Project Management	Visual labs	3-Dec-22	21-Jan-23
4.	Krish Ramle	SE	Web Developer	Software Engineering and Project Management	Teachnook	1-Sep-22	31-Oct-22
5.	Aditya Shrivastav	SE	Web Developer	Software Engineering and Project Management	Aashman Foundation	23-Dec-22	23-Jan-23
6.	Sarvesh Santosh kesarkar	SE	Web Developer	Software Engineering and Project Management	Hindustan petroleum corporation limited	22-May-23	18-Jun-23
7.	Aniket Hemant Murkutkar	SE	Web Application Development- Web API	Software Engineering and Project Management	Workflowed Solutions Pvt. Ltd.	6-Jun-23	8-Jul-23
8.	Soham Dattaram Saindre	SE	Data science	Data Science and Analytics	Academor	1-Jan-23	28-Feb-23

	Student					Duration	
Sr. No	Name	Year	Internship Topic	Domain	Company	From Date	To date
9.	KARTIK MISTRY	SE	Data Science and Machine Learning Internship	Artificial Intelligence/ Machine Learning	Vidhyavardhini College of engineering and technology	20-Jun-23	23-Jun-23
10.	Mithali Nayak	SE	Computer Networks	Computer Network and Security	Orient Technologies Pvt Ltd	22-May-23	20-Jun-23
11.	Manthan kumar khamakar	SE	Web Developer	Software Engineering and Project Management	TechnoHacks EduTech Official	1-Jul-23	31-Jul-23
12.	Yash Mahendra Amre	TE	Software Operator	Programming Algorithm	Faclon Labs Private Limited	24-Jun-22	24-Aug-22
13.	Chinmay Prakash Jadhav	TE	Software Consultatnt	Programming Algorithm	Quantiphi Analytics Solution Private Limited	22-Aug-22	21-Oct-22
14.	Yashika Manan Kothari	TE	Python Data Intern	Programming Algorithm	SL-Consultancy	6-Dec-22	7-Jan-23

15	Yashika Manan Kothari	TE	Devops Developer	Programming Algorithm	NTT Data Payment Services	9-Jun-23	7-Jul-23
16	Adarsh Mahendra Kamble	TE	Web Developer	Software Engineering and Project Management	LetsgrowMore	1-Oct-22	1-Nov-22
17	Adarsh Mahendra Kamble	TE	Web Developer	Software Engineering and Project Management	YOUR SPIRITUAL REVOLUTION LLP	21-Mar-23	21-Jun-23

	Student					Duration	
Sr. No	Name	Year	Internship Topic	Domain	Company	From Date	To date
18.	Anushka Ashwin Matey	TE	Campus Ambassador	Data Science and Analytics	Skillvertex	5-Jan-23	5-Feb-23
19.	Anushka Ashwin Matey	TE	Data Science	Data Science and Analytics	Skillvertex	5-Mar-23	5-Apr-23
20.	Anushka Ashwin Matey	TE	Digital Marketing	Data Science and Analytics	Livpure	27-Jun-22	26-Jul-22
21.	Harshal Nitin Naik	TE	Cyber Security	Computer Network and Security	Teachnook	1-Aug-22	30-Sep-22
22.	Ved Kishor Patil	TE	Data Science	Data Science and Analytics	Exposys Data Labs	26-Apr-23	25-May-23
23.	Rohan Raosaheb Rathod	TE	Data analytics	Data Science and Analytics	Suven Consultant and Technology	14-Dec-22	27-Dec-23
24.	Rohan Raosaheb Rathod	TE	Web Developer	Software Engineering and Project Management	Sparks Foundation	1-May-23	1-Jun-23
25.	Rohan Raosaheb Rathod	TE	Data analytics	Data Science and Analytics	KPMG	23-Nov-22	23-Dec-22
26.	Atharv Sanap	TE	Cybersecurity	Computer Network and Security	Jio Platforms Limited	6-Jun-23	4-Aug-23
27.	Hinal Manojkumar Jethava	BE	Full Stack Developer	Software Engineering and Project Management	Solar secure solutions	13-Jul-22	14-Sep-22

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	Student					Duration		
Sr. No	Name	Year	Internship Topic	Domain	Company	From Date	To date	
28.	Krunal Gangadhar Kharat	BE	Data Visualization	Data Science and Analytics	Globalshala	19-Sep-22	24-Oct-22	
29.	Yogita pandurang chaudhari	BE	Web Developer	Software Engineering and Project Management	Dzor infotech Pvt Ltd	10-Jun-22	10-Jan-23	
30.	Aniket Nanubhai Chauhan	BE	Web Developer	Software Engineering and Project Management	TNIT Services LLP.	16-Jun-22	21-Oct-22	
31.	Sumedh Baldev Salve	BE	Softwarre Developer	Programming Algorithm	TCR Innovation	7-Jun-22	9-Aug-22	
32.	Kartik Shelar	BE	Senior Scientist – Data Science & Technology Liaison	Data Science and Analytics	Tata Chemicals Limited	7-Nov-22	6-Feb-23	
33.	Shaikh Mohmmed Asaad	BE	Full Stack Developer	Software Engineering and Project Management	Remitbee Inc	17-Jan-23	17-May-23	
34.	Devansh Trivedi	BE	Software Developer	Programming Algorithm	Voosh	1-Nov-22	31-Mar-23	
35.	Sahil Ghanshyam Singh	BE	Web Developer	Software Engineering and Project Management	Ride	22-Dec-22	22-Jun-23	
36.	Devesh Sanjay Narkhede	BE	ERP Developer	Software Engineering and Project Management	Hindustan Aeronautics Limited	28-Jun-23	20-Jul-23	

Student						Duration	
Sr. No	Sr. No Name Ye	Year Internship Topic		Domain	Company	From Date	To date
37.	Shreyas Shantaram Shete	BE	Data Analyst	Data Science and Analytics	Excelerate (Illinois Tech University).	5-Jun-23	5-Jul-23

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38.	Neha Jagdish Bhange	BE	Software Development	Software Engineering and Project Management	404 Minds Technologies	10-Oct-22	31-May-23
39.	Karan Parmar	BE	Frontend Developer	Software Engineering and Project Management	Convin.ai	6-Apr-23	30-Sep-23
40.	Bandgar Mamta	BE	Frontend Developer Intern	Software Engineering and Project Management	Mandeshi Agro	24-Jun-22	12-Oct-22
41.	Kishan Kathare	BE	Software development with python	Programming Algorithm	Cyberace Infovision Private limited	5-Dec-22	15-Mar-23
42.	Alok Yadav	BE	Software Development	Programming Algorithm	Bytelearn Edtech Pvt Ltd	5-Dec-22	10-Jun-23
43.	Snehil Seenu	BE	Machine Learning	Artificial Intelligence/ Machine Learning	Fusion Tech	7-Dec-22	7-May-23
44.	Harshala Vilas Chaudhari	BE	Web Developer	Software Engineering and Project Management	Bhabha Atomic Research Center, Mumbai	25-May-23	10-Jul-23

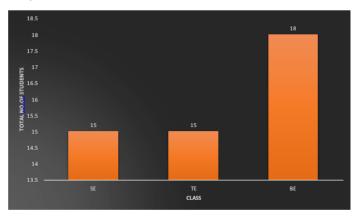


Fig. Class wise Internship chart for the A.Y.2022-23

Table 2.2.5g Details of the students completed Internships for the YEAR 2022-2023 according to Domains

Sr.No.	Domain Name	No. of Internships in domains
1.	Basic Science and Engineering	0
2.	Programming Algorithm	08
3.	Data Science and Analytics	11
4.	Computer Network and Security	05
5.	Software Engineering and Project Management	22
6.	Artificial Intelligence/ Machine Learning	02

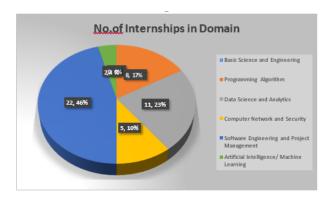


Fig. Domain wise Internship chart

Table 2.2.5h Details of the students completed Internships for the YEAR 2021-2022

	Student					Duration	
Sr. No	Name	Year	Internship Topic	Domain	Company	From Date	To date

1.	Devansh Trivedi	TE	Software Engineer Intern (backend & Cloud)	Software Engineering and Project Management	MAPREKS SYSTEMS PRIVATE LIMITED	9/1/2021	12/31/2021
2.	Altmash Siddique	TE	Django Development Intern	Software Engineering and Project Management	Fittlyf	8/9/2021	9/8/2021
3.	Anuj Kadam	TE	Operations- Community Manager	Computer Network and Security	Nblik	7/10/2021	8/24/2021
4.	Nayan Patil	BE	Web Development	Software Engineering and Project Management	Lets Grow More	9/1/2021	10/1/2021

	Student					Γ	Ouration
Sr. No	Name	Year	Internship Topic	Domain	Company	From Date	To date
5.	Harsh Tripathi	TE	Python Programmer	Programming Algorithm	Code Speedy Technology Private Limited	6/25/2021	7/25/2021
6.	Nitika Thingalaya	BE	Wordpress Development	Software Engineering and Project Management	Let The Data Confess	6/15/2021	12/31/2021
7.	Saakshi Parikh	TE	Content/Database developer	Data Science and Analytics	Kwikfriend Educom Pvt Ltd	7/29/2021	1/12/2022
8.	Ronak A Jain	SE	Social Media Marketing	Data Science and Analytics	CollegeTips	7/31/2021	9/3/2021
9.	Alok Yadav	TE	Frontend Development Intern	Software Engineering and Project Management	Prithvi Al	6/24/2021	10/1/2021
10.	Labhesh Mahajan	SE	Volunteering, content writing.	Data Science and Analytics	Hosa Belaku Foundation,	9/21/2021	10/31/2021
11.	Harsh Anil Shirke	TE	Django Development Intern	Software Engineering and Project Management	Fittlyf	7/26/2021	9/8/2021
12.	Shivraj Chavan	BE	Python Developer	Programming Algorithm	Fox Trading Solution	3/31/2021	7/1/2021

13.	Rishank Shah	TE	MERN Stack Developer	Software Engineering and Project Management	Magtapp	5/13/2021	12/4/2021
14.	Shruti Halde	TE	Data Science with Machine Learning and Python	Data Science and Analytics	TCR INNOVATION	6/15/2021	8/15/2021
15.	Rhea Indurkar	TE	Data Science with Machine Learning and Python	Data Science and Analytics	TCR Innovation	6/15/2021	8/15/2021
16.	Divyanka Gharat	TE	Digital Marketing	Data Science and Analytics	Snefel Technologies	6/15/2022	8/5/2022

	Student					ı	Ouration
Sr. No	Name	Year	Internship Topic	Domain	Company	From Date	To date
17.	Akash Solunke	TE	Payment gateway Intergration	Computer Network and Security	The spark foundation	11/1/2021	12/2/2021
18.	Shivani Surve	BE	ASP.NET	Programming Algorithm	Momenta Informatics LLP	5/1/2021	11/1/2021
19.	Shubhansh Jha	TE	Machine Learning	Data Science and Analytics	HawksCode	11/22/2021	12/22/2022
20.	Chirag Kocharekar	SE	Google Cloud Program (Cloud Engineering)	Data Science and Analytics	Google Cloud	9/30/2021	10/31/2021
21.	Chirag Kocharekar	SE	Campus Ambassador	Data Science and Analytics	Techfest IIT Bombay	8/12/2021	10/28/2021
22.	Rohit Pawar	TE	React Development- Associate	Software Engineering and Project Management	The Entrepreneurship Network	7/15/2021	10/15/2021
23.	Tushar Panchmukh	TE	React Development- associate	Software Engineering and Project Management	The Entrepreneurship Network (TEN)	8/1/2021	10/31/2021
24.	Mohit Sharma	BE	Full Stack Developer	Software Engineering and Project Management	Quantel.in (http://quantel.in/)	6/1/2021	8/31/2021
25.	Sakshi Pandey	TE	Cyber Security	Computer Network and Security	Bombay Stock Exchange	9/6/2021	10/29/2021

26.	Ujjwal Patel	TE	Python for ML/AI	Data Science and Analytics	Elite Techno Groups	8/26/2021	9/26/2021
27.	Om Vispute	TE	Python for ML/AI	Data Science and Analytics	Elite Techno Groups	8/26/2021	9/26/2021
28.	Suraj Tiwari	TE	Python for ML/AI	Data Science and Analytics	Elite techno groups/skill india	8/20/2021	9/29/2021
29.	Suraj Tiwari	TE	ML with python intern	Data Science and Analytics	TCR innovation	8/8/2021	11/11/2021

	Student					[Ouration
Sr. No	Name	Year	Internship Topic	Domain	Company	From Date	To date
30.	Suraj Tiwari	TE	Business and data analytics	Data Science and Analytics	Sparks foundation	9/1/2021	10/1/2021
31.	Shlok Jagushte	TE	Marketing Internship	Data Science and Analytics	Blanckanvas Media Pvt Ltd	9/1/2021	10/1/2021
32.	Omkar Salkade	BE	Machine Learning	Data Science and Analytics	Hewlett Packard Enterprise	6/18/2021	8/1/2021
33.	Shloka Daga	TE	Data Science with Machine Learning and Python	Data Science and Analytics	TCR Inovation	1/12/2022	4/10/2022
34.	Piyush Jain	SE	Backend Developer	Software Engineering and Project Management	МадТарр	10/10/2021	1/24/2021
35.	Deepak Kumavat	SE	Graphic Design	Software Engineering and Project Management	PHPCRM	1/15/2022	2/14/2022
36.	Amey Godbole	TE	Advance Metering Infrastructure Overview	Software Engineering and Project Management	Adani Electricity Mumbai Ltd.	6/13/2022	7/15/2022
37.	Shubham Gupta	TE	Software Engineer Intern	Software Engineering and Project Management	Ombre	10/4/2021	3/4/2022
38.	Shlok Jagushte	TE	Public Relations Intern	Software Engineering and Project Management	BlancKanvas Media	10/4/2021	12/6/2021
39.	Alok Yadav	TE	Frontend Intern	Software Engineering and Project Management	Algo8 Al	6/24/2021	12/31/2021

40	Anushka Pede	TE	IT-MRO	Software Engineering and	Air India Engineering Services Limited	6/1/2022	6/30/2022
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	Student					D	uration
Sr. No	Name	Year	Internship Topic	Domain	Company	From Date	To date
				Project Management			
41.	Keshav Sharma	BE	Web development	Software Engineering and Project Management	Lets GrowMore	4/25/2022	5/25/2022
42.	Ketaki Dhotre	BE	Software Development Intern	Software Engineering and Project Management	Rogue code LLP	8/1/2021	10/1/202
43.	Kushal Kothari	BE	Web development	Software Engineering and Project Management	Lets GrowMore	4/5/2022	5/5/2022
44.	Altmash Husain Siddique	TE	Software Development Intern	Software Engineering and Project Management	DECENT ENTERPRISES	11/10/2021	1/10/2022
45.	Ritik Jain	SE	back-end development	Software Engineering and Project Management	AUTUMN Tech Lab	4/13/2022	5/13/2022
46.	Jimit Jain	SE	Public Relations Intern	Software Engineering and Project Management	BlancKanvas Media	10/4/2021	12/6/2021
47.	Suraj Tiwari	BE	Data analyst tutor	Data Science and Analytics	Xcite education worldwide	4/30/2022	6/30/2022
48.	Hitesh Bhalerao	BE	React Developement	Software Engineering and Project Management	The Entrepreneurship Network	8/5/2021	9/5/2021

	49. Bha	gyasha I	TE	Design and Development of Hydrogen Plant	Software Engineering and	TATA Steel Limited	6/21/2021	7/20/202
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	Student					ι	Ouration
Sr. No	Name	Year	Internship Topic	Domain	Company	From Date	To date
			Performance Dashboard	Project Management			
50.	Harsh Anil Shirke	TE	Software Development Intern	Software Engineering and Project Management	Decent Enterprises	11/10/2021	1/10/2022
51.	Harsh Anil Shirke	TE	Django Development Intern	Software Engineering and Project Management	Fittlyf	7/26/2021	9/8/2021
52.	Swaraj Sambhaji Salunkhe	TE	Performance Marketing Intern	Software Engineering and Project Management	Mandeshi Agro	1/2/2022	3/3/2022
53.	C A Aakansha	BE	College ambassador	Data Science and Analytics	Techfest (IIT- Bombay)	7/15/2021	3/3/2022
54.	Elrisha Dsilva	TE	Data Science and Business Analytics : Prediction using unsupervised ML	Data Science and Analytics	The Sparks	2/1/2022	3/1/2022
55.	Tushar Raosaheb Panchmukh	TE	Replica of TEN website	Software Engineering and Project Management	The Entrepreneurship Network (TEN)	8/1/2021	10/31/2021
56.	Zaid Ali Khan	TE	Basic Banking System	Software Engineering and Project Management	The Sparks	6/1/2022	7/1/2022
57.	Solunke Akash Rajkumar	TE	Web Development	Software Engineering and Project Management	Raise Digital	3/20/2022	5/20/2022

58.	Somesh Pramod Kshirsagar	BE	FRONTEND WEB DEVELOPMENT	Software Engineering and Project Management	Technical Coding Research (TCR) Innovation	1/3/2022	3/20/2022
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	Student					[Ouration
Sr. No	Name	Year	Internship Topic	Domain	Company	From Date	To date
59.	Om Sanjay Rane	TE	Web Development	Software Engineering and Project Management	Jokerbussiness.co m	12/23/2021	3/12/2022
60.	Atharv Sanap	SE	back-end development	Software Engineering and Project Management	AUTUMN Tech Lab	5/1/2022	6/1/2022
61.	Rohit Madhukar Pawar	BE	React.js Development - Associate	Software Engineering and Project Management	The Entrepreneurship Network	8/15/2021	10/15/2021
62.	Deepak Kumawat	SE	Web Development	Software Engineering and Project Management	Quloi Private Limited	5/1/2022	6/5/2022
63.	Chetan Bhole	SE	Web Development	Software Engineering and Project Management	Quloi Private Limited	6/1/2022	7/6/2022
64.	Rohit Madhukar Pawar	BE	Web development	Software Engineering and Project Management	LueurTech Software Solutions PVT. LTD.	12/15/2021	1/15/2022

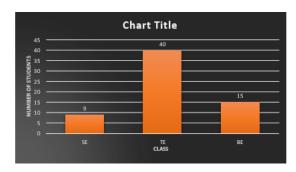


Fig. Class wise Internship chart for the A.Y.2021-22 $\,$

Table 2.2.5i Details of the students completed Internships for the YEAR 2021-2022 according to Domains

Sr.No.	Domain Name	No. of Internships in domains		
1.	Basic Science and Engineering	0		
2.	Programming Algorithm	3		
3.	Data Science and Analytics	20		
4.	Computer Network and Security	3		
5.	Software Engineering and Project Management	38		
6.	Artificial Intelligence/ Machine Learning	0		

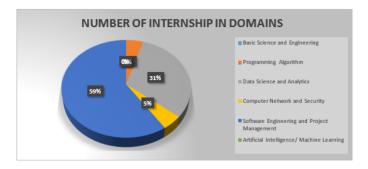


Fig. Domain wise Internship chart for the A.Y.2021-22

Table 2.2.5j Details of the students completed Internships for the YEAR 2020-2021

Sr. No	Student Name	Year	Internship Topic	Domain	Company	Duration
1	Rucha Chotaliya	TE	Enterprise Networking	Software Engineering and Project Management	Sterlite Technology, Mumbai	1 Jun 2020 to 30 Jun 2020
2	Kanishka Patel	BE	Business Analyst	Software Engineering and Project Management	Quintiphi, Mumbai	28 Oct 2020 -27 Feb 2021
3	Tanay Godse	BE	Sentiment Analysis	Data Science and Analytics	Syntel, Mumbai	26 May 2020 to 31 Jul 2020
4	Harsh Gandhi	BE	Python Programming	Programming Algorithm	Cyberace, Mumbai	5 Jun 2020 to 10 Jul 2020
5	Sanchita Shirur	TE	Cloud Services	Software Engineering and Project Management	Indian Open Source, Mumbai	14 Jun 2020 - 26 Jul 2020
6	C A Aakansha	TE	Technical Content Writer	Software Engineering and Project Management	GeeksforGeeks, Mumbai	22 Apr 2020 - 6 Feb 2021
7	Aniket Aashra	TE	Web Development	Software Engineering and Project Management	Progist, Mumbai	1 Jun 2020 - 31 Jan 2021
8	Sahil Tanawade	TE	Web Development	Software Engineering and Project Management	The Sparks Foundation, Gurgaon HR	4 Jan2021 - 5 May 2021

	,					
9	Disha Sankhe	TE	Web Development	Software Engineering and Project Management	The Sparks Foundation, Gurgaon HR	30 Sep 2020 – 31 Oct 2020
10	Aniket Taral	TE	Web Development	Software Engineering and Project Management	The Sparks Foundation, Gurgaon HR	4 Jan 2021 - 5 May 2021
11	Sakshi Kumar	BE	Web Development	Software Engineering and Project Management	Rogue Code, Mumbai	1 Aug 2020 – 30 Sep 2020
12	Rishank Shah	SE	Backend Developer	Software Engineering and Project Management	Ashmay Technologies Pvt., Mumbai	11 Feb 2021 – 11 Apr 2021
13	Yogita Chaudhari	SE	Web Development	Software Engineering and Project Management	Intershala, Mumbai	1 Apr 2021 – 1 Jun 2021
14	Sahu Nilesh	SE	Backend Developer	Software Engineering and Project Management	The Sparks Foundation, Gurgaon HR	1 May 2021 – 1 Jun 2021
15	Devansh Trivedi	SE	Software Developer	Software Engineering and Project Management	TLMC, Mumbai	23 Apr 2021 – 23 May 2021
16	Kartik Shelar	SE	Python Programming	Programming Algorithm	Cyberace, Mumbai	15 Jan 2021 – 15 Mar 2021
17	Sumedh Kurahade	SE	Java Coding	Programming Algorithm	Suven consultants and technology Pvt Ltd.,Mumbai	26 Feb 2021 – 26 Mar 2021
18	Vishal Mote	BE	Website Development	Software Engineering and Project Management	Snapinsight, Mumbai	9 Oct 2020 – 3 Dec 2020
19	Vishal Mote	BE	Web Technology	Software Engineering and Project Management	The Sparks Foundation, Gurgaon HR	1 Jul 2020 - 30 Sep 2020
20	C A Aakansha	TE	Website Development	Software Engineering and Project Management	The Sparks Foundation, Gurgaon HR	6 Oct 2020 – 6 Nov 2020
21	Adrian Dsouza	TE	Web Technology	Software Engineering and	Quantel, Haryana	19 Oct 2020 – 19 Dec 2020
	1	1	1	1	1	ı
				Project Management		
22	Sanchita Shirur	TE	Community Influencer	Software Engineering and Project Management	Unschool, Mumbai	1 Jun 2020 – 22 Jul 2020
	-		+		-	

Software

Project Management

Engineering and

Quantel, Haryana

27 Jul 2020 – 24 Oct 2020

Front End

Developer

Sanchita

Shirur

ΤE

23

24	Kashyap Vyas	TE	Web Development	Software Engineering and Project Management	TRPWS, Mumbai	12 Jul 2020 – 28 Dec 2020
25	Kashyap Vyas	TE	Web Development	Software Engineering and Project Management	Microbugs, Jaipur	1 Jan 21 – 5 Feb 21
26	Altmash Siddique	SE	Web Development	Software Engineering and Project Management	Remark Skill, Delhi	21 Sep 2020 – 31 Oct 2020
27	Abhishek Yadav	SE	Data Science	Data Science and Analytics	The Sparks Foundation, SINGAPORE	28 Nov 2020 – 28 Dec 2020
28	Aniket Taral	TE	Web Development	Software Engineering and Project Management	The Sparks Foundation, SINGAPORE	1 April 2021- 1 May 2021
29	Sahil Tanawade	TE	Web Technology	Software Engineering and Project Management	The Sparks Foundation, SINGAPORE	1 April 2021- 1 May 2021
30	Disha Naresh Sankhe	TE	Web Development	Software Engineering and Project Management	The Sparks Foundation, Gurgaon HR	1 Oct 2020 - 20 Oct 2020

31	Tejal Palwankar	TE	Program Instructor	Software Engineering and Project Management	Toppr codr, Mumbai	22 Feb 2020 - 22 May 2021
32	Tejal Palwankar	TE	Web Development	Software Engineering and Project Management	Steam Troops, Chennai	1 Dec 2020 - 30 Jan 2021
33	Shruti Halde	SE	Data Science	Data Science and Analytics	TCR Innovation,Navi Mumbai	14 June 2021 - 14 August 2021
34	Bhagyasha Patil	SE	Web Development	Software Engineering and Project Management	Tata Poer, Mumbai	21 June 2021- 20 July 2021
35	Anagha Patil	BE	Machine learning	Software Engineering and Project Management	Internship Studio, Mumbai	16 Sep 2020 – 23 Oct 2020
36	Devesh Vijay Pawar	BE	Web Development	Software Engineering and Project Management	MakeMyTrip, Karnataka	21 Jan 2021 – 20 July 2021
37	Devesh Vijay Pawar	BE	League Hacking	Computer Network and Security	Major League Hacking, NewYork	1 Feb 2021 – 30 April 2021
38	Jinay Ketankuma r Vora	SE	Virtual program	Programming Algorithm	Forage, Mumbai	11 Jan 2021- 13 Feb 2021

39	Vishal shivaji mote	BE	Web Technology	Software Engineering and Project Management	BinS Computer, Mumbai	18 Dec 2020 – 7 Mar 2021
40	SUMIT KUMAR SINGH	BE	Web Development	Software Engineering and Project Management	The Sparks Foundation, SINGAPORE	1 Feb 2021 - 30 Mar 2021
41	Abhishek Yadav	SE	Web Development	Software Engineering and Project Management	The Sparks Foundation, SINGAPORE	15 Jan 2021 - 15 Feb 2021

42	Husain Yusuf Thanawala	TE	Web Development	Software Engineering and Project Management	The Sparks Foundation, SINGAPORE	1 Feb 2021 – 1 March 2021
43	Shanmukh Bhutada	SE	Business Development	Software Engineering and Project Management	MyCaptain, Banglore	17 Jan 2021 - 16 Feb 2021
44	Sakshi Rakesh Kumar	BE	Web Development	Software Engineering and Project Management	Rogue Code LLP, Mumbai	01 Aug 2020 – 30 Sep 2020
45	Anuj kadam	SE	Data Analytics	Data Science and Analytics	KPMG, Mumbai	01 Mar 2021 - 01 Apr 2021
46	Shubham Gupta	SE	Web Development	Software Engineering and Project Management	Quloi, Pune	1 Mar 2021 - 10 May 2021
47	Rucha Desai	BE	Community Leader	Software Engineering and Project Management	Unschool, Hyderaba d, Telangana	22 Apr 2021 - 22 May 2021
48	Moumita Manik Biswas	BE	UX Researcher	Data Science and Analytics	Jewel Studio, Mumbai	3 Nov 2020 - 30 Apr 2021
49	Bandgar Mamta	SE	Data Science and Analytics	Data Science and Analytics	Internshala, Mumbai	1 Feb 2021 - 30 April 2021
50	Chauhan Aniket Nanubhai	SE	Java Coding	Programming Algorithm	Suven consultants and technology Pvt Ltd.,Mumbai	10 Mar 2021 – 12 Apr 2021
51	yogita pandurang chaudhari	SE	Java Coding	Programming Algorithm	Suven consultants and technology Pvt Ltd.,Mumbai	10 Mar 2021 – 12 Apr 2021
52	Aniket Nanubhai Chauhan	SE	Software engineering Virtual program	Software Engineering and Project Management	Forage, Mumbai	22 Apr 2021 – 22 May 2021

53	yogita pandurang chaudhari	SE	Engineering Virtual program	Software Engineering and Project Management	Forage, Mumbai	22 Apr 2021 22 May 2021
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54	yogita pandurang chaudhari	SE	Crack leaked password database	Data Science and Analytics	The Sparks Foundation, Singapore	25 Nov 2020 – 25 Dec 2020		
55	Aniket Nanubhai Chauhan	SE	Crack leaked password database	Data Science and Analytics	Forage, Mumbai	25 Dec 2020 25 Jan 2021		
56	Jesika Jogi	BE	Web site Developer	Software Engineering and Project Management	Shaadiwire, Delhi	1 Aug 2020 – 30 Nov 2020		
57	Amisha Ghevade	BE	IOT with Arduino	Artificial Intelligence/ Machine Learning	EdVerb Learing Pvt. Ltd. Mumbai	20 Feb 2021 – 20 Mar 2021		
58	Harsh Jagdish Gharat	SE	Web Development	Software Engineering and Project Management	The Sparks Foundation, SINGAPORE	3 Mar 2021 – 3 Apr 2021		
59	Shaikh Kabir Zakir	TE	Web Development	Software Engineering and Project Management	The Sparks Foundation, SINGAPORE	15 Feb 2021 – 15 Mar 2021		
60	Kartik Shelar	SE	Web Development	Software Engineering and Project Management	Cyber ACE, Mumbai	15 Jan 2021 15 March 2021		
61	Kanishka Patel	BE	Business Analyst	Software Engineering and Project Management	Qunatiphi, Mumbai	28 Oct 2020 - 27 Feb 2021		
62	Anusha Sunilkumar	SE	Back End Developer	Software Engineering and Project Management	Autumn Tech Labs, Mumbai	03 Apr 2021 - 24 Apr 2021		

63	Yogita Pandurang Chaudhari	SE	Web Development	Software Engineering and Project Management	The Sparks Foundation, SINGAPORE	1 May 2021 – 1 Jun 2021
64	Aniket Nanubhai Chauhan	SE	Web Development	Software Engineering and Project Management	The Sparks Foundation, SINGAPORE	1 May 2021 – 1 Jun 2021
65	Tarang Padia	TE	Blockchain Developer	Software Engineering and Project Management	Galiyaraa, Delhi	9 Jun 2021 - 9 Sept 2021
66	Ninad Satam	TE	Web Development	Software Engineering and Project Management	The Sparks Foundation, SINGAPORE	1 Oct 2020 - 7 Nov 2020
67	Bandgar Mamta	SE	Social Development	Software Engineering and Project Management	Helping brainz,	16 Feb 2021 - 16 May 2021

68	Abhishek Yadav	SE	Web Developer	Software Engineering and Project Management	Aspire High Foundation	1 Jan 2021 - 1 Jun 2021
69	Hardik Sakpal	SE	Web Development	Software Engineering and Project Management	CADEN Enterprises, Mumbai	1 June 2020 - 1 August 2021
70	Abhishek Yadav	SE	Web Development	Software Engineering and Project Management	Mahiara, New Delhi	1 April 2021 - 1 July 2021
71	Varun Singh	TE	Web App Development	Software Engineering and Project Management	Augrade, Mumbai	27 May 2020 - 22 Feb 2021
72	Sahil Tanawade	TE	Back End Developer	Software Engineering and Project Management	Autumn. Mumbai	3 Apr 2021 – 21 April 2021

73	Disha Naresh Sankhe	TE	Software engineering Virtual program	Software Engineering and Project Management	Forage	1 Apr 2021 – 1 Jun 2021
74	Disha Naresh Sankhe	TE	Program Management	Software Engineering and Project Management	Ifortis Corporate	6 Jun 2021 - 1 July 2021
75	Aniket Taral	TE	Back End Developer	Software Engineering and Project Management Autumn. Mumbai 3		3 Apr 2021 – 21 April 2021
76	Sanchita Shirur Anil	TE	Cloud Services	Software Engineering and Project Management	Indian Open Source Community	14 June 2020 - 26 July 2020
77	Sanchita Shirur Anil	TE	Front End Developer	Software Engineering and Project Management	Quantel, Haryana	27 July 2020 - 24 Oct 2020
78	Rishank Shah	SE	Web Development	Software Engineering and Project Management	Ezyschooling, Mumbai	11 Feb 2021 – 11 April 2021
79	Mohit Brijesh Sharma	TE	Web Development	Software Engineering and Project Management	Augrade, Mumbai	1 Mar 2020 - 2 Apr 2021
80	Shrushti Warekar	TE	Virtual Program	Software Engineering and Project Management	Forage , Mumbai	1 Jun 2020 – 1 Jul 2020
81	Kushal Kothari	TE	Software Development	Software Engineering and Project Management	Google, Mumbai	1 Jun 2020 – 24 Aug 2020

82	Shrushti Warekar	TE	Web Development	Software Engineering and	The Sparks Foundation, SINGAPORE	1 Nov 2020 – 1 Dec 2020
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				Project Management		
83	Urvashi Thakre	TE	Virtual Program	Software Engineering and Project Management	Microsoft,Mumbai	1 Jun 2020 – 1 Jul 2020
84	Urvashi Thakre	TE	Data Analytics	Data Science and Analytics	Suven consultants and technology Pvt Ltd.,Mumbai	1 Oct 2020 – 15 Oct 2020
85	Urvashi Thakre	TE	Web Development	Software Engineering and Project Management	The Sparks Foundation, SINGAPORE	6 Oct 2020 – 6 Nov 2020
86	Aniket Aashra	TE	Data Analytics	Data Science and Analytics	KYC Hub, UK	27 Aug 2020 – 6 Oct 2020
87	Arun Addagatla	TE	Data Science	Data Science and Analytics	Algoritmo,Pune	1 Jul 2020 – 1 Oct 2020
88	Kashyap Vyas	TE	Marketing	Software Engineering and Project Management	Tutoraj, Mumbai	1 Jul 2020 – 31 Jul 2020
89	Anusha Sunilkauma r	SE	Web Development	Software Engineering and Project Management	Atumn Tech Labs, Mumbai	4 Apr 2021 – 5 Apr 2021
90	Aniket Aashra	TE	Web Development	Software Engineering and Project Management	Progist Solutions, Mumbai	1 June 2020 – 31 Jan 2021
91	Neha Bhange	SE	Crack leaked password database	Data Science and Analytics	Forage, Mumbai	4 June 2021 – 4 July 2021
92	Shubham	SE	Web Development	Software Engineering and Project Management	Quloi, Mumbai	1 Mar 2021 – 10 May 2021

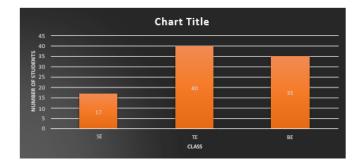


Fig. Class wise Internship chart for the A.Y.2020-21

Table 2.2.5k Details of the students completed Internships for the YEAR 2020-2021 according to Domains

Sr.No.	Domain Name	No. of Internships in domains
1.	Basic Science and Engineering	0
2.	Programming Algorithm	6
3.	Data Science and Analytics	12
4.	Computer Network and Security	1
5.	Software Engineering and Project Management	72
6.	Artificial Intelligence/ Machine Learning	1

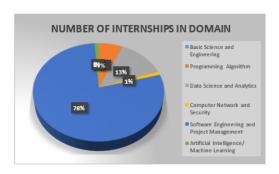


Fig. Domain wise Internship chart for the A.Y.2020-21



Fig. Comparison graph of last 3years.

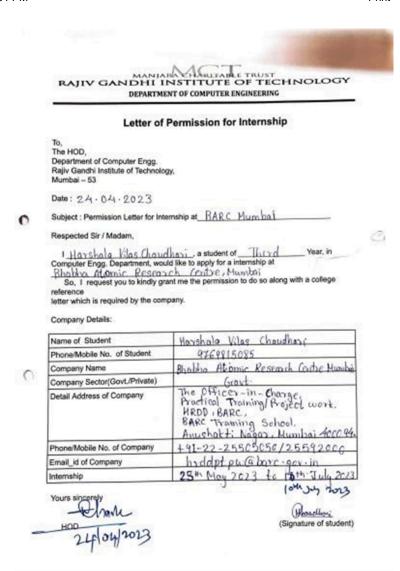


Fig. Sample copy for the permission of the internship

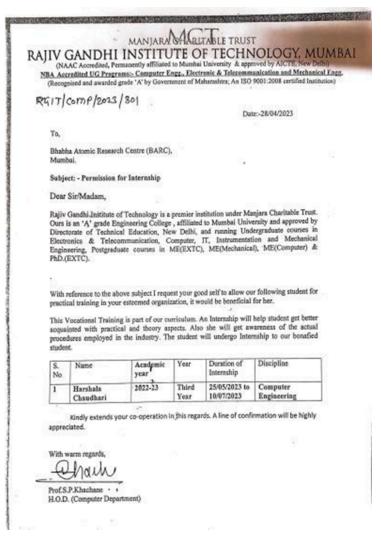


Fig. Sample copy for granting the permission of the internship.

3 COURSE OUTCOMES AND PROGRAM OUTCOMES (120)

Total Marks 120.00

Define the Program specific outcomes

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

Total Marks 20.00

PSO1	An ability to apply the knowledge of computer engineering in the multidisciplinary fields and make IT enabled.
PSO2	An ability to solve complex computer engineering problems using latest technical tools with analytical skills for achieving optimized solutions to encourage research.

3.1.1 Course Outcomes(COs)(SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (5)

Institute Marks: 5.00

Note: Number of Outcomes for a Course is expected to be around 6.

 Course Name :
 C2 01
 Course Year :
 2020-2021

Course Name	Statements
C2 01.1	Students will be able to implement Linear and Non-Linear data structures.
C2 01.2	Students will be able to handle various operations like searching, insertion, deletion and traversals on various data structures
C2 01.3	Students will be able to explain various data structures, related terminologies and its types.
C2 01.4	Students will be able to choose appropriate data structure and apply it to solve problems in various domains
C2 01.5	Students will be able to analyze and Implement appropriate searching techniques for a given problem.
C2 01.6	Students will be able to demonstrate the ability to analyze, design, apply and use data structures to solve engineering problems and evaluate their solutions.

Course Name : C2 02 Course Year : 2020-2021

Course Name Statements		
C2 02.1	Recognize the need of database management system.	
C2 02.2	Design ER and EER diagram for real life applications	
C2 02.3	Construct relational model and write relational algebra queries.	
C2 02.4 Formulate SQL Queries		
C2 02.5	Apply the concept of normalization to relational database design.	
C2 02.6	Describe the concept of transaction, concurrency and recovery.	

Course Name : C3 01 Course Year : 2021-2022

Course Name	Statements
C3 01.1	Demonstrate the concepts of data communication at physical layer and compare ISO - OSI model with TCP/IP model.
C3 01.2 Explore different design issues at data link layer.	
C3 01.3 Design the network using IP addressing and sub netting / supernetting schemes.	
C3 01.4	Analyze transport layer protocols and congestion control algorithms.
C3 01.5	Explore protocols at application layer.
C3 01.6	To prepare the students for advanced courses in computer networking

Course Name : C3 02 Course Year : 2021-2022

Course Name	Statements
C3 02.1	Understand the concept of DT Signal and DT Systems
C3 02.2	Classify and analyze discrete time signals and systems.
C3 02.3	Implement Digital Signal Transform techniques DFT and FFT
C3 02.4	Use the enhancement techniques for digital Image Processing.
C3 02.5	Apply image segmentation techniques.
C3 02.6	Understand use of DSIP techniques to design real world DSIP applications

Course Name : C4 01 Course Year : 2022-2023

Course Name	Statements
C4 01.1	To describe the field of natural language processing.
C4 01.2	To design language model for word level analysis for text processing.
C4 01.3	To design various POS tagging techniques and parsers.

C4 01.4 To design, implement and test algorithms for semantic and pragmatic analysis.		To design, implement and test algorithms for semantic and pragmatic analysis.
C4 01.5 To formulate the discourse segmentation and anaphora resolution.		To formulate the discourse segmentation and anaphora resolution.
C4	01.6	To apply NLP techniques to design real world NLP applications.

Course Name :		C4 02	Course Year :		2022-2023	
Course Name	Statements					
C4 02.1 To gain fundamental knowledge of the data science process.						
C4 02.2	To apply data exploration and visualization techniques.					
C4 02.3 To apply anomaly detection techniques.						
C4 02.4	4 02.4 To gain an in-depth understanding of time-series forecasting.					
C4 02.5	Apply different meth	Apply different methodologies and evaluation strategies.				
C4 02.6	To apply data scien	To apply data science techniques to real world applications.				

3.1.2 CO-POmatrices of courses selected in 3.1.1(Six matrices to be mentioned; one per semester from 3rd to 8th semester) (5)

Institute Marks: 5.00

1 . course name : C201

Course	PO1		PO2		PO3		PO4		PO5		PO6		P07		PO8		PO9		PO10		PO11		PO12	
C201.1	2	~	1	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~
C201.2	2	~	2	~	1	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	2	~
C201.3	1	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~
C201.4	3	~	3	~	1	~	2	~	3	~	-	~	-	~	-	~	-	~	-	~	-	~	3	~
C201.5	2	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~
C201.6	3	~	3	~	2	~	3	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	2	~
Average	2.17		2.20		1.33		2.33		2.50		0.00		0.00		0.00		0.00		0.00		0.00		2.33	

2 . course name : C202

Course	PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12	
C202.1	2	~	2	~	1	~	2	~	1	~	-	~	1	~	-	~	-	~	-	~	-	~	1	~
C202.2	3	~	2	~	1	~	3	~	-	~	-	~	1	~	-	~	-	~	3	~	1	~	1	~
C202.3	2	~	2	~	1	~	1	~	-	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~
C202.4	3	~	2	~	1	~	3	~	1	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~
C202.5	3	~	2	~	1	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~
C202.6	3	~	1	~	1	~	1	~	-	~	3	~	-	~	-	~	-	~	-	~	-	~	-	~
Average	2.67		1.83		1.00		2.00		1.00		2.50		1.00		0.00		0.00		3.00		1.00		1.00	

3 . course name : C301

Course	PO1		PO2		PO3		PO4		PO5		PO6		P07		PO8		PO9		PO10		PO11		PO12	
C301.1	1	~	1	~	1	~	-	~	-	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~
C301.2	3	~	2	~	2	~	1	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~
C301.3	3	~	2	~	3	~	2	~	2	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~
C301.4	2	~	2	~	2	~	2	~	1	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~
C301.5	2	~	1	~	1	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~
C301.6	1	~	2	~	2	~	2	~	2	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~
Average	2.00		1.67		1.83		1.80		1.75		2.00		0.00		0.00		0.00		0.00		0.00		0.00	

4 . course name : C302

Course	PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12	
C302.1	-	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
C302.2	3	~	2	~	1	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
C302.3	3	~	2	~	1	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
C302.4	3	~	2	~	1	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
C302.5	3	~	1	~	1	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
C302.6	3	~	2	~	2	~	2	~	1	~	-	~	-	~	1	~	-	~	-	~	-	~	1	~
Average	3.00		1.83		1.22		2.00		1.00		0.00		0.00		1.00		0.00		0.00		0.00		1.00	

5 . course name : C401

Co	ourse	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
- 1													

C401.1	1	~	1	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
C401.2	3	~	2	~	1	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
C401.3	3	~	2	~	1	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
C401.4	3	~	2	~	1	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
C401.5	2	~	1	~	1	~	3	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
C401.6	3	~	2	~	2	~	3	~	2	~	-	~	-	~	1	~	-	~	-	~	-	~	1	~
Average	2.50		1.67		1.20		2.40		2.00		0.00		0.00		1.00		0.00		0.00		0.00		1.00	

6 . course name : C402

Course	PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		PO10		PO11		PO12	
C402.1	3	~	1	~	1	~	2	~	1	~	-	~	-	~	-	~	-	~	1	~	-	~	-	~
C402.2	2	~	3	~	1	~	3	~	1	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~
C402.3	-	~	1	~	1	~	2	~	1	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~
C402.4	2	~	1	~	1	~	2	~	1	~	-	~	-	~	-	~	-	~	-	~	-	~	-	~
C402.5	2	~	2	~	1	~	2	~	3	~	-	~	-	~	-	~	-	~	1	~	-	~	1	~
C402.6	1	~	2	~	1	~	2	~	2	~	-	~	-	~	-	~	-	~	-	~	-	~	1	~
Average	2.00		1.67		1.00		2.17		1.50		2.00		0.00		0.00		0.00		1.00		0.00		1.00	

1 . Course Name : C201

Course	PSO1		PSO2	
C201.1	1	~	2	~
C201.2	2	~	2	~
C201.3	1	~	-	~
C201.4	2	~	2	~
C201.5	1	~	2	~
C201.6	2	~	2	~
Average	1.50		2.00	

2 . Course Name : C202

Course	PSO1		PSO2	
C202.1	-	~	-	~
C202.2	2	~	-	~
C202.3	-	~	-	~
C202.4	-	~	2	~
C202.5	-	~	-	~
C202.6	-	~	-	~
Average	2.00		2.00	

3 . Course Name : C301

Course	PSO1		PSO2	
C301.1	-	~	-	~
C301.2	-	~	-	~
C301.3	1	~	2	~
C301.4	1	~	-	~
C301.5	-	~	2	~
C301.6	-	~	-	~
Average	1.00		2.00	

4 . Course Name : C302

Course	PSO1		PSO2	
C302.1	-	~	-	~
C302.2	1	~	-	~
C302.3	1	~	-	~
C302.4	1	~	-	~
C302.5	1	~	2	~
C302.6	3	~	3	~
Average	1.40		2.50	

5 . Course Name : C401

Course	PSO1		PSO2	
C401.1	-	~	-	~
C401.2	2	~	2	~

Average	1.60		2.60	
C401.6	2	~	3	~
C401.5	2	~	2	~
C401.4	1	~	3	~
C401.3	1	~	3	~

6 . Course Name : C402

Course	PSO1		PSO2	
C402.1	-	~	-	~
C402.2	1	~	-	~
C402.3	-	~	-	~
C402.4	1	~	2	~
C402.5	-	~	2	~
C402.6	3	~	3	~
Average	1.67		2.33	

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

Institute Marks: 10.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CLO8029	1.50	1	PO3	PO4	PO5	1	3	3	PO9	3	PO11	3
CSC301	1.17	1	PO3	1	1	P06	P07	P08	PO9	PO10	PO11	1
CSC302	2.33	2.50	1.67	1.83	PO5	P06	P07	P08	PO9	PO10	PO11	PO12
CSC303	2.17	2.20	1.33	2.33	2.50	P06	P07	P08	PO9	PO10	PO11	2.33
CSC304	1.50	1.17	1.20	1.40	1.00	P06	P07	P08	PO9	PO10	PO11	PO12
CSC305	2.33	2.00	1.00	PO4	PO5	P06	P07	P08	PO9	PO10	PO11	1
CSC401	2.33	1	PO3	1	PO5	P06	P07	P08	PO9	PO10	PO11	1
CSC402	2	2.5	1.67	1.83	2	P06	P07	P08	1	1.67	1	1.67
CSC403	2.67	1.83	1	2	1	2.50	1	P08	PO9	3	1	1
CSC404	2	1.7	1	1.6	1	P06	P07	P08	PO9	PO10	PO11	2
CSC405	2	1.17	2	2	1	P06	P07	P08	PO9	PO10	PO11	1
CSC501	1.67	1.67	1	1	1	P06	P07	P08	PO9	PO10	PO11	PO12
CSC502	2.20	2	1.67	1.40	1.80	2	1	3	3	2	2	1
CSC503	2	1.67	1.83	1.80	1.75	2	P07	P08	PO9	PO10	PO11	PO12
CSC504	2.4	2.2	1	1.8	2	P06	1	P08	PO9	1	PO11	1
CSC601	1.83	1.83	PO3	1.60	1	P06	P07	P08	PO9	PO10	PO11	1
CSC602	1.83	1	1	1.75	2	P06	P07	P08	PO9	PO10	PO11	2
CSC603	1.67	1.67	1.60	1.83	1.83	3	1	1	3	PO10	1.25	1.33
CSC604	2.8	1.75	2	1	PO5	P06	P07	P08	PO9	PO10	PO11	1
CSC701	2.17	1.50	1.83	2	1.20	P06	P07	P08	1.50	PO10	2	1.33
CSC702	2.17	1.67	1.50	1.67	1	P06	P07	PO8	1.75	1.50	PO11	1
CSC801	2.17	2	1.50	1.60	2	1	P07	P08	PO9	PO10	PO11	PO12
CSDC701	2.67	2.33	1.67	3	1.50	P06	P07	P08	PO9	3	PO11	3
CSDC701	2.50	1.67	1.20	2.40	2	P06	P07	1	PO9	PO10	PO11	1
CSDC702	2	1.2	1	2	1	2	1	PO8	3	3	PO11	PO12
CSDC801	2	1.67	1	2.17	1.50	2	PO7	PO8	PO9	1	PO11	1

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CSDC802	1.83	1.40	1	1.40	2	3	PO7	1	PO9	PO10	PO11	PO12
CSDL060	1.33	2	3	3	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
CSDL801	2.17	2	1.50	1.60	2	1	PO7	PO8	PO9	PO10	PO11	PO12
CSDL801:	2.67	2	2	1.67	2.33	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CSDL802:	1.83	1.40	1	1.40	2	3	PO7	1	PO9	PO10	PO11	PO12
CSDLO50	1	2	2.8	2	3	3	1	3	3	1	PO11	3
CSDLO50	1.33	1.20	1.25	1.25	1	PO6	PO7	PO8	1.33	PO10	PO11	PO12
CSDLO60	3	1.83	1.20	2	1	PO6	PO7	1	PO9	PO10	PO11	1
CSDLO60	2.67	1.67	1	2	1	PO6	PO7	1	PO9	PO10	PO11	1.60
CSL301	2.33	2	1	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	1
CSL303	2.50	2	1	PO4	1	PO6	P07	PO8	PO9	PO10	PO11	1
CSL304	2.50	1.83	1.50	2.17	2	PO6	PO7	PO8	3	3	PO11	1.25
CSL401	2	1.67	1.67	1.67	2	PO6	PO7	PO8	1	1.67	1	1.67
CSL402	2.6	2	1	2.2	1	2	1	PO8	PO9	3	1	1
CSL403	2	1.7	1	1.6	1	PO6	PO7	PO8	PO9	PO10	PO11	2
CSL405	2.83	2	1.83	2.33	2.33	PO6	PO7	PO8	3	3	PO11	1.33
CSL501	2	2	2	1.50	1.67	2	PO7	3	3	2	2	1
CSL502	2.33	1.67	2	1.50	2	2	PO7	PO8	PO9	PO10	PO11	PO12
CSL503	2.75	2.75	1.75	2.25	2.33	PO6	1	PO8	PO9	PO10	PO11	1
CSL504	PO1	PO2	PO3	PO4	PO5	PO6	P07	3	1.75	1.75	PO11	1
CSL601	1.80	1.80	PO3	1.80	1	PO6	P07	PO8	PO9	PO10	1	PO12
CSL604	2.75	1.67	2	1	PO5	PO6	P07	PO8	PO9	PO10	PO11	1
CSL605	1.50	1.67	2	2	2	2.50	P07	PO8	PO9	PO10	PO11	PO12
CSL701	2.33	2	2	2.33	1	PO6	P07	PO8	PO9	PO10	PO11	PO12
CSL702	2.20	1.80	1.40	1.60	1	1	1	1	2	1.33	PO11	1
CSM301	1.75	1.75	1.67	1.29	1.50	2.25	1	1.67	2.50	2	1	1.25
CSM401	1.75	1.75	1.67	1.29	1.50	2.25	1	1.67	2.50	2	1	1.25
CSM501	1.75	1.75	1.80	2.33	1.25	2	1.33	2	2.67	2.20	1.50	1.75
CSM601	1.75	1.75	1.80	2.33	1.25	2	1.33	2	2.67	2.20	1.50	1.75
CSP701	1.75	1.75	1.80	2.33	1.25	2.50	1	2	2.50	2	1.50	1.67
CSP801	1.75	1.67	1.67	1.83	1.83	1.50	2	3	2	1.80	1	1.67
FEC101	2	1	1	1	1	PO6	P07	PO8	PO9	PO10	PO11	1
FEC102	2.33	1.67	1	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	1.5
FEC103	1	PO2	1	PO4	1	PO6	P07	PO8	PO9	PO10	PO11	1.83
FEC104	2	1	1	1	PO5	PO6	P07	PO8	PO9	1	PO11	PO12
FEC105	2	1	PO3	PO4	PO5	PO6	P07	1	3	PO10	PO11	PO12
FEC201	2	1	1	1	1	PO6	P07	PO8	PO9	PO10	PO11	1
FEC202	1.83	1.33	PO3	PO4	PO5	PO6	P07	PO8	2	PO10	PO11	1.17
FEC203	2.5	1.67	1	PO4	PO5	3	1.17	PO8	PO9	PO10	PO11	1
FEC204	1	PO2	PO3	PO4	PO5	PO6	P07	PO8	PO9	1	PO11	PO12
FEC205	2.5	1.67	1	2.17	1.83	PO6	P07	PO8	PO9	PO10	PO11	1.6
FEC206	PO1	PO2	PO3	PO4	PO5	PO6	P07	1	1	1	PO11	1
FEL103	2	1	1	PO4	PO5	PO6	P07	PO8	1	3	PO11	PO12
FEL104	2	2	PO3	PO4	PO5	PO6	P07	1	3	PO10	PO11	PO12

FEL105	2.29	1.57	1	PO4	2	2	PO7	1	PO9	2	PO11	1.43
FEL203	1	PO2	PO3	PO4	1	PO6	PO7	PO8	1	PO10	PO11	PO12
FEL206	2.29	2	1	PO4	PO5	PO6	P07	PO8	PO9	2	1	PO12
ILO7013	1.5	PO2	1	1	1	2	1.5	2	PO9	PO10	1	2
ILO7016	1.33	1.67	1.50	2.20	1.75	2.50	1.80	PO8	PO9	PO10	PO11	PO12
ILO7017	2	1.2	1.5	PO4	PO5	3	2.67	2	1	3	2.25	1.5
ILO8028	1.75	2.50	1.75	1.75	2	3	2	2	3	2	2	1

3.1.3 - B Program level Course-PSO matrix of all courses INCLUDING first year courses

Course	PSO1	PSO2
CSC301	PSO1	PSO2
CSC302	1	PSO2
CSC303	1.5	2
CSC304	PSO1	PSO2
CSC305	2	PSO2
CSC401	PSO1	PSO2
CSC402	2	2
CSC403	2	2
CSC404	2	3
CSC405	PSO1	PSO2
CSC501	PSO1	PSO2
CSC502	PSO1	2
CSC503	1	2
CSC504	1.5	2.7
CSC601	1	PSO2
CSC602	1	2
CSC603	1.33	2
CSC604	2	PSO2
CSC701	1.60	2.00
CSC702	1.00	2
CSC801	PSO1	2
CSDC701	2	2
CSDC701	1.60	2.60
CSDC702	2	2
CSDC801	1.67	2.33
CSDC802	2	PSO2
CSDL801:	2.33	2.50
CSDL802	2	PSO2
CSDLO50	2.2	2
CSDLO50	1	1
CSDLO60	3	PSO2
CSDLO60	1.40	2.50
CSDLO60	1.33	2.33
CSL301	2	PSO2
CSL303	2	PSO2

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CSL304	2	2.33
CSL401	2	2
CSL402	2	2
CSL403	1	2
CSL405	2	2.33
CSL501	1	2
CSL502	1	2
CSL503	1	2.67
CSL504	1	PS02
CSL601	1	PS02
CSL604	2	PSO2
CSL605	1.50	2
CSL701	2	2
CSL702	1	2
CSL801	PSO1	2
CSM301	1.75	2.17
CSM401	1.75	2.17
CSM501	1.33	2.25
CSM601	1.33	2.25
CSP701	1.67	2.33
CSP801	1.50	2.33
FEC101	PSO1	PS02
FEC102	PSO1	PS02
FEC103	PSO1	PS02
FEC104	PSO1	PS02
FEC105	PSO1	PSO2
FEC201	PSO1	PSO2
FEC202	PSO1	PSO2
FEC203	PSO1	PSO2
FEC204	PSO1	PSO2
FEC205	2	1
FEC206	1	PSO2
FEL103	PSO1	PSO2
FEL104	PSO1	PSO2
FEL104	PSO1	PSO2
FEL203	PSO1	PSO2
FEL206	PSO1	1
ILO7013	2	3
ILO7016	1.67	2
ILO7017	1	1
ILO8028	1	2
ILO8029	1.67	PSO2

3.2 Attainment of Course Outcomes (50)

Total Marks 50.00

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

Institute Marks: 10.00

Assessment processes play a crucial role in gathering data for the evaluation of Course Outcomes (COs). The assessment methods used are aligned with the specific course objectives of each course and provide meaningful insights into students achievement. Here are common assessment processes employed in the evaluation of COs:

Summative Assessment:

Definition: Summative assessments are conducted at the end of a course or a specific instructional period to evaluate overall student learning. Purpose: Measure the extent of student attainment of specific course outcomes and determine if the learning outcomes have been achieved. Tools used for the assessment: end semester examinations, Internal Assessment (term Test I and Term Test II), project presentations, oral and practical examination for the lab and theory course, skill based lab courses.

Continuous Assessment:

Definition: Assessment activities are distributed throughout the course rather than concentrated at the end.

Purpose: Capture the development of knowledge and skills over time and provide ongoing feedback for improvement.

Tool for the Assessment: Assignments based on the course outcome as prescribed by the university curriculum, performance of the experiment by the students.

Project-Based Assessment:

Definition: Project-based assessments require students to work on a substantial project that integrates and applies knowledge gained during the courses they have under gone.

Purpose: Assess students ability to synthesize information, solve problems, and demonstrate practical skills.

Tool used for the Assessment: Research projects, group presentations, and collaborative assignments in skill-based labs, mini projects, major projects, Internships, project specified for some subjects in curriculum.

Adopted procedure for Grading:

Clear and well-defined criteria for evaluating student work is a measure step in the assessment of CO. This provide transparency in expectations and facilitate consistent and fair grading of the student's attainment of specific course outcome.

Criterions are defined to get the measurable attainment value which is based on timely submission of work, quality of work, performance in the end semester and Term examinations which are based on the average or targeted values.

e.g

1) Marking Scheme for Sem VII Project-I

Project (Oral/ practical) marks	%
Assigned work	40
Presentation	20
Punctuality	20
Analysis	20

2) Experiments Grading:

Indicator				
Understanding	Fully Understood the concepts and performance of experiment, correct and complete reading.	Understood concepts but some not clear, reading taken are not complete.	Most of the concepts not clear, Large variation in reading.	No answer to any question and wrong reading.
Performance	Diagrams and illustrations are neat, accurate and correct sample calculations. Work reflects understanding of Topic.	Diagrams and illustrations are accurate sample calculation shows some variations. Work shows some understanding Of Topic.	Diagrams and illustrations are sometimes. Incomplete calculations Work lacks understanding of Topic.	Diagrams and illustrations are not accurate No Calculations done. Not interested.
Punctuality		On time	late	Very late

Frequency of data collection

Sr. Direct	Description
No. Assessment	

		Two internal tests are conducted as prescribed by the university curriculum for the course. The schedule of the term test is mentioned in academic calendar of the college.
1.	Internal 1. Assessment (IA) tests	The faculties prepare the question papers for the respective subject by following the standard practice that for each test at least two course outcomes should map and papers were set by following blooms taxonomy and performance indicator mentioned as per the examination reform policy given by the AICTE in Nov. 2018.
		The faculties will follow scheme and solutions for each test and evaluate the performance of students. The Internal assessment marks are based on average score of two tests conducted.
2.	Lab Assessment	Laboratory in-charge faculties will follow the rubrics, which is set by the department for evaluation of laboratory experiments/programs.
		There shall be maximum of 10 Marks in each.
3.	Assignment	Based on the subject number of assignments are given each of 10 Marks. The assignment marks are based on average of marks assigned to all the assignments.
4.	End Semester examination marks	There shall be maximum of 80 Marks and minimum of 32 marks to pass the university examination.

Process of evaluation of Course Outcome:

In outcome-based education, a "design down" process is employed which moves from POs to Course Outcomes (COs) and outcomes for individual learning experiences. Outcomes at each successive level need to be aligned with, and contribute to, the program outcomes.

To connect high-level learning outcomes (POs) with course content, course outcomes and its assessment is necessary. There is a necessity to bring further clarity and specificity to the program outcomes attainment through course outcome AICTE given the examination reform policy in November 2018. This can be achieved through the following two-step process of identifying Competencies and Performance Indicators (PI).

(1) Identify Competencies to be attained: For each PO define the competencies —different abilities implied by program outcome statement that would generally require different assessment measures. This helps us to create a shared understanding of the competencies we want students to achieve. They serve as an intermediate step to the creation of measurable indicators. It should be noted that, when we consider the program outcome, it looks like, it can be achieved only in the Capstone project. But if we consider the competencies and performance indicators, we start seeing the opportunities of addressing them (and hence PO) in various courses of the program. Once the above process is completed for the program, the assessment of COs for all the courses is done by connecting assessment questions (used in various assessment tools) to the PIs. By following this process, where examination questions map with PIs, we get clarity and better resolution for the assessment of COs and POs.

Step 1: Formation of Domain Group / Mapping, Validation and Formation of Rubrics of CO PO as per syllabus content / Creation of Articulation Matrix / Specific remarks for CO PO attainment level

MATRIX FOR CO PO MAPPING FOR COURSE:

CO/	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
PO														
CO1	Х	Х	Х	Х								Х		
CO2	Х	Х	Х	Х	Х						Х	Х		
CO3	Х	Х	Х	Х	Х	Х	Х	Х			Х	Х		
CO4	Х	Х	Х	Х	Х		Х				Х	Х		
CO5	Х	Х	Х	Х							Х	Х		
CO6	Х	Х	Х	Х	Х	Х	Х	Х			Х	Х		

ARTICULATION MATRIX FOR SUBJECT / COURSE (Assigning weightages as per curriculum by using PO competency levels and its performance indicators)

- High 3
- Moderate 2
- Low 1

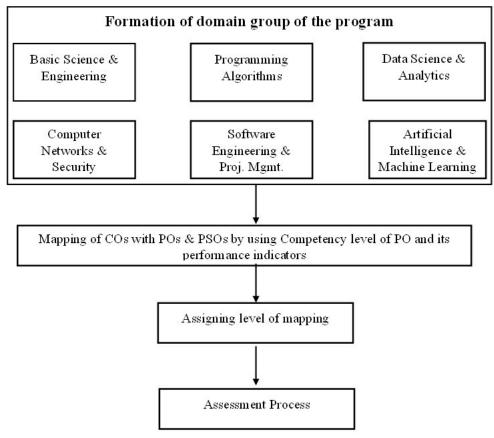
ATTAINMENT OF PO THROUGH COURSE OUTCOMES

CO / PO	PO1	PO2	PO3	PO4	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	2	-	-	-		-	-		2		
CO2	2	2	2	3	1					-	2	2		
CO3	2	3	3	3	2	2	1	2		-	2	2		

	CO4	2	2	1	2	2		1	-			1	1	
ĺ	CO5	1	1	1	1							2	2	
	CO6	2	3	3	3	3	2	2	1	-		2	2	
Ī	AVG	2	2.17	1.83	2.33	2.00	2.00	1.33	1.50	-	-	1.80	1.83	

Calculate the Average Value of PO through Course Outcomes

Average Value PO = Total Attainment level / total number of POs mapped with COs.



ASSESSMENT PROCESS FOR DATA COLLECTION

At the initial stage, the Course Outcomes (CO's) for each course are defined based on the Program Outcome (PO's) 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 or 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 directly and indirectly.

Direct attainment basically displays the student's knowledge and skills from their performance. It can be determined from the performance of the students in all the relevant assessment instruments – like internal assessments, assignments, lab experiments and final university examination. These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.

Indirect methods such as surveys and interviews ask the stakeholders to reflect on student's learning. They assess opinions or thoughts about the graduate's knowledge or skills.

Indirect measures can provide information about graduate's perception of their learning and how this learning is valued by different stakeholders.

Sr.	Direct	Description
No.	Assessment	

		Department will conduct two internal tests, scheduled in accordance with the university and college calendar of events.					
1.	Internal Assessment (IA) tests	The faculties will prepare the Question papers for the respective subject and will be submitted to Internal Test coordinator well in advance.					
	(IA) lesis	The faculties will follow scheme and solutions for each test and evaluate the performance of students. The Internal assessment marks are based on average score of two tests conducted.					
		Laboratory in-charge faculties will follow the rubrics, which					
2.	Lab Assessment	is set by the department for evaluation of laboratory experiments/programs.					
		There shall be maximum of 10 Marks in each.					
3.	Assignment	Based on the subject two assignments are given each of 10 Marks. The assignment marks are based on average of two assignments.					
4.	End Semester examination marks	There shall be maximum of 80 Marks and minimum of 32 marks to pass the university examination.					

Sr.No.	Indirect Assessment	Description
1	Course Exit Survey	Every Subject In-charge collects the course exit survey for indirect assessment after completion of course.
2	Alumni Feedback	Alumni of the college provide feedback for the improvement in the overall process.
3	Parents Feedback	Parents provide feedback on every parent teacher meet.
4	Employer Feedback	Employer provides feedback based on the eligibility of students in placement activities.
5	Professional Body(CESS/ CSI)	Students Professional Bodies conduct various technical activities like Seminar, Workshops, and Expert Talks etc. For every activity feedback is collected and used for indirect assessment.
6	PO Exit survey	Passout students provide feedback based on their academic experience

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

Institute Marks: 40.00

Procedure and evaluation of attainment of POs and PSOs

Calculate the attainment level of CO by direct assessment methods (student performance)

With knowledge of attainment level of CO determine the attainment level of the PO satisfied for the related CO in the given course in terms of correlation levels [1: slight(low), 2: Moderate (medium), and 3: substantial(high)]

Calculate the average attainment of PO_n in percentage and enter the correlation level in CO-PO Matrix based on the target.

Level of CO attainment	
No. of students having marks > cut-off	Level
No. of students having marks>=60%	3
No. of students having marks50% to 59%	2
No. of students having marks40% to 49%	1

PO attainment calculation with CO-PO matrix table for the course.

Similar procedure is to be followed to calculate the attainment level of PSOs by preparing CO-PSO matrix for the course.

MANJARA CHARITABLE TRUST RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

Department of Computer Engineering

Academic Year 2022-23

B.E. SEM-VIII Course Name: APPLIED DATA SCIENCE Course Code: CSDC8013																
				TES	ST I					TES	T II			As	sesme	nts
		мсо	Q2	Q3	Q4	Q5	Total	Q1	Q2	Q3	Q4	Q5	Total	IA	EXAN	Tota
Roll No.	Name Of Student	5	5	5	5	5	20	5	5	5	5	5	20	20	80	100
	Mapping CO>	C01	CO2	C02	CO3	CO3		CO4	CO4	CO5	CO5	CO6			All CC)
A-801	Aadke Neha	5	5	5	5		20	5		5	5	5	20	20	57	77
A-802	Akhtar Nabeel Sayed	5	5	5	5		20	5	4	5		5	19	20	63	83
A-803	Shreyas Ambre	5	5	5	5		20	5	2	5	4		16	18	54	72
A-804	labeeb Ansari	4	5	5	4		18	1	2	3	3		9	14	53	67
A-805	Anusha Sunilkumar	5	5	5	5		20	5	2	5	3		15	18	56	74
A-806	Kunal Bagde	5	5	5	5		20	5	2	3	5		15	18	51	69
A-807	Bandgar Mamta	5	5	5	5	5	20	5		5	5	5	20	20	58	78
A-808	Neha Jagdish Bhange	5		4	5	4	18	5	2	5	5		17	18	55	73
A-809	Shanmukh Bhutada	5	5	5	5	2	20	4	2	4	5		15	18	46	64
A-810	Amogh Abhay Bidwe	5	5	5	5		20	5	3	5	4		17	19	60	79
A-811	Ishita Ashok Borkar	5	5	5	4	4	19	5		5	4	3	17	18	58	76
A-812	Yogita pandurang Chaudhari	5	3	3	4		15	5	5	5		5	20	18	74	92
A-813	Aniket Nanubhai Chauhan	3	4	5	5	4	17	5	5	5	5	4	20	19	62	81
A-814	Darshan Chavan	4	2		0	2	8	2	4	5	3		14	11	34	45
A-815	Chavan Pratika	5	5	4	5	5	20	5		5	5	4	19	20	59	79
A-816	Lavesh Chib	5	4	5		5	19	5	3	5	5		18	19	51	70
A-817	Husain Dahodwala	5	5	5	5		20	4	5	5	5		19	20	55	75
A-818	Kingshuk Debnath	5	5	1	5	5	20	3	3	1		5	12	16	56	72
A-819	Soham Govind Deodhar	5	5	1	5		16	3	2	4		1	10	13	49	62
A-820	Disha Dhako	5	1	5	5		16	5	3	5	3		16	16	58	74
A-821	Dhwani Gandhi	5	2	1	1	5	13	5	3	4	5		17	15	47	62
A-822	Elrisha Dsilva	5	5	5	5		20	4	3	5		5	17	19	56	75
A-823	Fletcher Fernandes	5	4	5	4		18	4	3	5	5		17	18	56	74
A-824	Vedant Gaikwad	4	0		5		9	3	4	5	5		17	13	60	73
A-825	Vighnesh Ganji	5	5	5	5		20	5	3	5	5		18	19	56	75
A-826	Yash Gavanang	5	5	5	5		20	3	3	5	5		15	18	48	66
A-827	Mrunal Madhukar Gavit	5	5	5	5	3	20	4	5	5		5	19	20	56	76
A-828	Sara Ghadigaonkar	5	4	5	5	5	20	4	4	4	5		17	19	57	76
A-829	Harsh Jagdish Gharat	5	5	5	5		20	4	4	4	5		17	19	64	83
A-830	Harsh Satish Ghosalkar	5	5	5	5	4	20	1	4	5	5	4	15	18	53	71
A-831	Amol Baliram Gosavi	5	5	5	5		20	4	5	4	0	3	16	18	42	60
A-832	Harish Ramsaran Gupta	4	5	5	5		19	4	2	3			9	14	54	68
A-833	Nikhil Gupta	5	5	5	5		20	4	4	3			11	16	40	56
A-834	Shubham Gupta	5	5	5		5	20	5	4	4		1	14	17	61	78
A-835	Shruti Halde	5	5	5	5	5	20	5	4	5		5	19	20	63	83
A-836	Rhea Indurkar	5	5	5	5	5	20	5	4	5		5	19	20	58	78
A-837	Ishani Ashok Kumar	5	1	1	5	4	15	5	2	5	2		14	15	57	72
A-838	Shlok Jagushte	5	5	5		5	20	5	4	4	3		16	18	54	72
A-839	Jethava Hinal Manojkumar	5	5	5	5	5	20	5	4	5	5		19	20	60	80
A-840	SHUBHANSH JHA	5	5		0	5	15	2	2	3	5		12	14	60	74
A-841	Anuj Sudhakar Kadam	5	3	5	2	3	16	4	3	4	3		14	15	49	64
A-842	Harsh Nitesh Kadam	5		5	5	5	20	5	3	5	3		16	18	59	77
A-843	Pranav kadam	4	2	5	4	1	15	2	2	3	5		12	14	39	53
A-844	KUNAL LAKHAMA KAKARA	5	5		4	4	20	1	3	3	3		10	15	42	57
A-845	Shreyas Anil Kamath	4	0	5		5	14	3	3	5	4		15	15	61	76
A-846	Kamil Amaan Anwar	5	5	5	5	5	20	5	3	5	1	5	18	19	56	75
A-847	Sameer Suresh Kanade	3	5	1	5		14	5	0	4		5	14	14	61	75
A-848	Pavan Vilasrao Karad	5	3	5	5	4	19	5	4	5	5	3	19	19	59	78

A-886 SARIM Wilsa Khair S 5 5 5 5 5 5 7 7 7 7	5/16/24, 12:0)1 PM								Prin	t						
A-852 Khana Abubakkar	A-849	Vedant Kathe	5	5	5	5		20	5	4	5		5	19	20	51	71
A-852 Kana Sameer Ejaz	A-850	Sakshi Vilas Khair	5	5	5	5	5	20	5	4	5	5	5	20	20	69	89
A-853 Srumal Gangafhar Kharat	A-851	Khan Abubakkar	5	5				10		4	4	5		13	12	40	52
A-855 Somesh Pramod Kshirsagar 4 5 3 0 5 1 12 4 0 0 A-855 Somesh Pramod Kshirsagar 4 5 3 5 5 7 4 3 5 5 7 1 1 1 1 2 7 1 3 4 3 4 3 5 5 7 1 3 5 5 7 1 1 1 2 7 4 6 7 4 6 6 7 4 6 6 7 4 6 6 7 4 6 6 7 4 6 6 7 4 6 6 7 4 6 6 7 4 6 6 7 4 6 6 7 4 6 6 7 4 6 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4 6 7 4 7 7 7 7 7 7 7 7	A-852	Khan Sameer Ejaz	4		1			5	5	5	5	5		20	13	48	61
A-855 Sumesh Framod Kshirsagar	A-853	Krunal Gangadhar Kharat	4	5		5	5	19	4	4	5	5		18	19	57	76
A-865 SHUBHAM KUMAR	A-854	Tanmay Suresh Koli	5	3	0	5		13	4	2	5		0	11	12	44	56
A-865 Chiragkmar Shalendra Mahe 5 5 5 5 5 5 20 2 5 5 5 3 1 16 19 66 85	A-855	Somesh Pramod Kshirsagar	4	5	3	5	4	18	5	5	5		2	17	18	49	67
A-869 A-86	A-856	SHUBHAM KUMAR	4	3		5	5	17	4	3	5	5		17	17	62	79
A-860 Aditya vijay mane	A-857	Vanshita Lavange	5	5	5		5	20	2	5	5		5	17	19	69	88
A-860 Aditya vijay mane	A-858	Chiragkumar Shalendra Mahe	5	5	5		5	20	5	5	5	3	1	18	19	66	85
A-861 Vinayak ramchandra maskar 5	A-859	Kartikkumar Mahindrakar	5		5	5	5	20	5	5		5	5	20	20	47	67
A-862 Bhavesh Maurya	A-860	Aditya vijay mane	5	5	4		5	19	5	5	4	2		16	18	43	61
A-863 Akshar Mehta	A-861	Vinayak ramchandra maskar	5	5	5	3		18		4	4	5		18	18	66	84
A-864 Shrey Mistry	A-862	·	5	5	5	5		20		4	5		5		20	61	81
A-865 Prajival Netaji Nanaware 5 5 5 5 20 4 4 5 4 13 17 67 84	A-863	Akshar Mehta	5		2	4	5	16		5	_	5			18	52	70
A-866 altin singh	A-864	Shrey Mistry	5	5	5	5		20	5	2	3	5		15	18	51	69
A-867 Rishabh Gilla	A-865	Prajwal Netaji Nanaware	5	5	5	5		20		4	5		4		17	67	84
A-868 Niraj Mohabey	A-866		3		1	5		14	_	3	5		3		15	44	59
A-869 Vedika Vikas Bane	A-867		5		4		3	17	2	2		1			11	51	62
A-870 Divyanka Sujeet Gharat	A-868	, ,	_	5	5			20		2	_				18		
A-871 Shloka Daga	A-869		_		5		5	20		2	_				18		
A-872 PRADNYA RAVINDRA JADHAV 5 5 5 5 5 2 0 5 3 5 5 18 19 48 67 A-873 Zaid Ali Khan Shahid Ali Khan 5 1 1 3 9 5 4 3 1 13 11 56 67 A-874 Mannal Aslamar Sazl 5 5 5 5 5 0 5 5 5 5 5 19 20 61 81 A-875 CHAVHAN ROHINI AMBADAS 5 4 3 5 17 5 3 5 5 18 18 18 44 62 A-876 Namrata Jaiswar 4 0 0 0 4 5 5 4 3 5 5 10 20 65 85 B-801 Buvami Pal 5 5 5 5 5 20 5 5 5 5 20 17 7 19 52 71 B-802 Tushar Panchmukh 5 5 5 5 5 20 5 5 5 5 20 17 7 19 52 71 B-803 Sakshi Pandey 5 5 5 5 5 20 5 5 5 2 2 17 7 19 52 71 B-805 Saurabh Parkar 5 5 5 5 5 20 5 5 3 2 4 14 17 17 54 71 B-805 Saurabh Parkar 5 5 5 5 5 20 5 5 5 2 0 19 5 18 88 86 B-808 Karan Parmar 4 5 5 5 5 5 20 5 5 5 20 19 5 8 88 B-809 Bagyasha Nitin Patil 5 5 5 5 5 20 5 5 5 20 19 61 80 B-808 Bhagyasha Nitin Patil 5 5 5 5 5 20 5 5 5 20 20 5 5 5 5 20 19 61 80 B-811 Anushka Pede 5 5 5 5 5 20 5 5 5 5 20 20 5 5 5 5 20 20 5 5 75 B-801 Anushka Pede 5 5 5 5 5 20 5 5 5 5 20 20 5 7 5 7 8 B-811 Anushka Pede 5 5 5 5 5 5 20 5 5 5 5 10 20 20 5 7 8 B-813 Mohammad Ayaar Rafique M 5 5 5 5 5 5 20 5 5 5 5 10 20 20 5 7 8 B-813 Mohammad Ayaar Rafique M 5 5 5 5 5 5 20 5 5 5 5 20 20 5 7 8 B-814 Rithik Rai 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	A-870		_	5	5			20			_		5		20		
A-873 Zaid Ali Khan Shahid Ali Khan 5	A-871	ŭ	_		5		5	20		5	_	5			20		72
A-874 Mannal Aslam Kazi A-875 CHAVHAN ROHINI AMBADAS 5		-	_	5	5	5		20			_		5		19		67
A-875 CHAVHAN ROHINI AMBADAS 5			_				_				_	1					
A-876 Namrata Jaiswar			_				5	20			_				20	-	81
A-877 Numan Khan		CHAVHAN ROHINI AMBADAS			3						_		5				
B-801 Buvani Pai S S S S S S S S S		,	-					4			_				8		43
B-802 Tushar Panchmukh 5 5 5 5 5 20 5 4 5 4 18 19 53 72		Numan Khan						20		_	_				20		
B-803 Sakshi Pandey								20		_							
B-804 Saakshi parikh 5 5 5 5 5 20 5 3 2 4 14 17 54 71																	
B-805 Saurabh Parkar 5 5 5 5 5 5 5 5 3 4 4 16 18 48 66		·									_						
B-806 Karan Parmar		•															
B-807 Ujjwal Manish Patel 5 5 5 5 3 18 5 5 5 5 20 19 61 80																	
B-808 Bhagyasha Nitin Patil 5 5 5 5 5 5 20 20 55 75 B-809 Akash Pawar 5 5 5 5 5 5 5 20 4 5 5 5 19 20 47 67 B-810 Rohit Madhukar Pawar 4 1 1 1 1 7 5 2 3 5 11 5 11 54 65 B-811 Anushka Pede 5 5 4 5 19 5 5 5 20 5 1 11 54 25 B-812 Abhishek Manojkumar Pillai 5 5 5 5 5 20 5 5 5 5 20 20 51 71 B-813 Mohammad Ayaaz Rafique M 5 3 5 5 5 5 5 20 5 5 5 17 18 58 4 B-813 Mohammad Ayaaz Rafique M 5 3 5 5 5 5 5 20 5 5 5 17 18 58 76 B-814 Rithik Rai 5 5 5 5 5 5 5 5 5 17 18 2 5 5 5 5 17 18 58 76 B-815 Om Sanjay Rane 5 5 5 5 5 5 20 4 5 5 5 5 3 19 20 52 72 B-816 SHREYA SUJIT RAUL 5 5 5 5 5 5 20 4 5 5 5 5 20 20 67 87 B-817 Dhanita Narendra Redij 5 3 5 4 17 4 1 5 2 11 15 42 57 B-818 Alister Rodrigues 5 5 5 5 4 19 2 2 5 5 5 12 12 16 36 52 B-819 Rukmani Sivaramakrishnan 5 5 3 3 5 5 5 20 5 5 5 117 19 51 70 B-820 Sahani Akash Sanjay 0 0 0 0 0 0 0 0 4 3 4 4 4 15 8 8 56 64 B-821 Nilesh Sahu 5 5 5 5 5 5 5 20 5 5 5 5 3 20 20 53 73 B-825 Sumedh Baldev Salve 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			_							-							
B-809 Akash Pawar 5 5 5 5 5 5 5 5 5		**								_	_						
B-810 Rohit Madhukar Pawar 4 1 1 1 7 5 2 3 5 15 11 54 65 B-811 Anushka Pede 5 5 4 5 19 5 5 5 20 20 51 71 B-812 Abhishek Manojkumar Pillai 5 5 5 5 20 5 3 3 5 4 17 19 65 84 B-813 Mohammad Ayaaz Rafique Mi 5 3 5 5 5 18 2 5 5 5 7 6 84 19 3 2 4 1 10 15 42 57 8-815 0m Sanjay Rane 5			0	-	5	٥		_	0	5		0					
B-811 Anushka Pede 5 5 4 5 19 5 5 5 20 20 51 71 B-812 Abhishek Manojkumar Pillai 5 5 5 5 20 5 3 3 5 4 17 19 65 84 B-813 Mohammad Ayaaz Rafique Mi 5 3 5 5 18 2 5 5 5 17 18 58 76 B-814 Rithik Rai 5 <td></td> <td>-</td> <td></td> <td>5</td> <td></td> <td></td> <td></td> <td></td>											-		5				
B-812 Abhishek Manojkumar Pillai 5 5 5 5 5 5 3 3 5 4 17 19 65 84 B-813 Mohammad Ayaaz Rafique M 5 3 5 5 18 2 5 5 5 17 18 58 76 B-814 Rithik Rai 5			_														_
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B-814 Rithik Rai 5 5 5 4 19 3 2 4 1 10 15 42 57 B-815 Om Sanjay Rane 5 7 2 20 20 67 87 B-816 SHREYA SUJIT RAUL 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 4 17 4 1 5 2 12 15 42 57 B-818 Alister Rodrigues 5 5 5 4 19 2 5 5 12 15 42 57 B-819 Rukmani Sivaramakrishnan 5 5 3 5 5 20		,				5	_						4				
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B-817 Dhanita Narendra Redij 5 3 5 4 17 4 1 5 2 12 15 42 57 B-818 Alister Rodrigues 5 5 5 5 4 19 2 5 5 12 16 36 52 B-819 Rukmani Sivaramakrishnan 5 5 3 5 5 20 5 2 5 5 17 19 51 70 B-820 Sahani Akash Sanjay 0 0 0 0 0 0 4 3 4 4 15 8 56 64 B-821 Nilesh Sahu 5 5 5 4 19 5 4 4 3 16 18 67 85 B-822 Swaraj Sambhaji Salunkhe 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 </td <td></td> <td>3</td> <td></td> <td></td> <td></td> <td>_</td>													3				_
B-818 Alister Rodrigues 5 5 5 4 19 2 5 5 12 16 36 52 B-819 Rukmani Sivaramakrishnan 5 5 3 5 5 20 5 2 5 5 17 19 51 70 B-820 Sahani Akash Sanjay 0 0 0 0 0 4 3 4 4 15 8 56 64 B-821 Nilesh Sahu 5 5 5 4 19 5 4 4 3 16 18 67 85 B-822 Swaraj Sambhaji Salunkhe 5 5 5 5 5 5 5 5 5 5 5 3 20 20 53 73 B-823 Swaraj Sambhaji Salunkhe 5 5 5 5 5 5 5 5 5 5 5 5 5 5<		-		_			5										_
B-819 Rukmani Sivaramakrishnan 5 5 3 5 5 20 5 2 5 5 17 19 51 70 B-820 Sahani Akash Sanjay 0 0 0 0 0 0 4 3 4 4 15 8 56 64 B-821 Nilesh Sahu 5 5 5 4 19 5 4 4 3 16 18 67 85 B-822 Swaraj Sunil Salunke 4 4 5 3 3 16 4 2 3 4 13 15 38 53 B-823 Swaraj Sambhaji Salunkhe 5 5 5 5 5 5 5 5 5 5 5 3 20 20 53 73 B-825 Sumedh Baldev Salve 5 5 5 5 5 5 5 5 5 4 19 </td <td></td> <td>_</td>																	_
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B-821 Nilesh Sahu 5 5 5 5 4 19 5 4 4 3 16 18 67 85 B-822 Swaraj Sunil Salunke 4 4 5 3 3 16 4 2 3 4 13 15 38 53 B-823 Swaraj Sambhaji Salunkhe 5 3 20 20 53 73 B-825 Sumedh Baldev Salve 5 5 5 5 4 19 4 5 3 5 17 18 41 59 B-826 Radhika Gajanan Sanap 5 5 5 5 5 5 5 5 5 4 2 3 9 15 52 67 <																	_
B-822 Swaraj Sunil Salunke 4 4 5 3 3 16 4 2 3 4 13 15 38 53 B-823 Swaraj Sambhaji Salunkhe 5 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>U</td> <td></td>							U										
B-823 Swaraj Sambhaji Salunkhe 5 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							3										
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B-826 Radhika Gajanan Sanap 5 5 5 5 5 5 5 4 19 20 63 83 B-827 Mohit Manish Sancheti 5 5 5 5 20 4 2 3 9 15 52 67 B-828 Takshil sanghvi 5 5 5 5 5 20 4 3 3 5 15 18 64 82 B-829 Komal Satam 5 1 0 0 6 1 0 0 1 5 7 7 32 39 B-830 Harsh Sawaji 5 2 5 5 17 5 5 5 20 19 51 70 B-831 Harshal Sawant 5 5 5 5 5 5 5 4 19 20 57 77 B-832 Sayyed Zishaan 5 5 5 5 5 5 5 5 3 18 19 70 89											_		3				
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Internal Accessment Tools Test-1 Test-2							ESE									
	Mapping CO →	C01	CO2	C02	CO3	CO3		CO4	CO4	CO5	CO5	CO6		I	All CC)
Intern	ıal & External Evaluation	3.00	2.88	2.81	2.93	2.86	2.92	2.93	2.82	2.98	2.93	2.96	2.90	2.95	2.72	2.85
	students having marks40% to	0	5	12	4	3	5	0	0	0	0	0	5	1	10	2
	students having marks50% to	0	6	2	1	4	1	10	25	3	7	2	5	5	23	19
	students having marks>=60%	150	125	126	122	66	140	136	112	143	100	48	140	143	119	130
B-877	Shantanu Singh	5	2	1	0		8	5	3	5	4		17	13	49	62
	YASH MORE	5	2	1	1		9	5	3	5		3	16	13	42	55
	Neha Modhave	5	5	5	5	2	20	5	1	2		5	13	17	38	55
B-874	Tejal Mahtre	5	5	5	5	5	20	4	4	3	5		16	18	47	65
B-873	Mohammed Anas Shaikh	5	5	5	5		20	5		5	3	5	18	19	61	80
B-872	Hardik Ramesh Sakpal	5	5	5			15	5	3	3	5		16	16	51	67
B-871	Sujit Jeevan Thorat	5	5	5	5		20	5	3	5	4		17	19	63	82
B-870	Tilak Neel Mahendra	5	5	5	4	3	19	5	3	5	5		18	19	61	80
B-869	Aayush Shah	4		5	4	5	19	5	2	3	4		14	17	58	75
B-868	Rajeshwari Tajnekar							2	4	3	5		14	7	51	58
B-867	Vishal Yadav	5	5	5	5	1	20	5	1	5	4		15	18	62	80
B-866	Alok Parasnath Yadav	5	5	5	4	4	19	2	2	4			8	14	37	51
B-865	Abhijay walia	5	5	5	5		20	5	4	5	5		19	20	65	85
B-864	Om Vispute	5		5	4	5	19	4	5	2	1		12	16	35	51
B-863	Samar Rajesh Vishwakarma	5	5	5	5	3	20	5	5	5	3		18	19	60	79
B-862	Tanvi Sanjay Visapurkar	5	5	5	4	5	20	5	- 4	5	2		16	18	45	63
B-861	Vaibhav Vijaywargiya	5	5	3		5	18		3	3	5		15	17	44	61
B-860	Mihir Vartak	5	_	_	5	3	20	4	3	5	5		17	19	54	73
			5	5	F			4	_		F		17	19		69
B-858 B-859	Valvi Vaishali Dharamdas	5	5	5	0	5	20	5	5	5		2	20	20	52	
B-857 B-858	Sakshi Vaidya	5	5	5	5	5	20	5	5	5	4	5			52	79
B-857	Devansh Trivedi	5	5	5	5		20	5	4	J	4	4	17	19	60	79
B-856	Harsh Tripathi	4	5	5	5	3	19	5	3	5 5	1		18	17	46	63
B-855	Tiwari Suraj Ram Vilas	5	5	1	1	3	14	5	3	5	5		18	16	68	84
B-854	Durvesh Anand Thombare	5	5	4	3		17	3	3	5	5		16	17	43	60
B-853	Priyam Tamrakar	5	5	5	5		20	5	2	5	2		14	17	55	72
B-851	Harsheet Soni	5	5	5	5		20	4	5	5 5	2		16	18	60	78
B-851	Solunke Akash Rajkumar	5	5	5	4	2	19	5	1	5	5		16	18	49	67
B-850	Aniket solanki	5	5	5	5	J	20	5	5	5	J		15	18	45	63
B-849	Singh Shivam Niraj	5	5	5	,	5	20	4	3	4	5	J	16	18	52	70
B-848	Sahil Ghanshyam Singh	5	J	5	5	5	20	4	3	5	J	5	17	19	55	74
B-847	Sagar Singh	5	5	5	4	3	18	2	3	<u> </u>	5		15	17	53	70
B-846	Kunal Singh	5	5	4	4		18	3	2	3		3	8	13	45	58
B-845	Altmash Intekhab Hussain Sid	5	5	5	5	4	20	4	5	5	J	5	18	20	61	81
B-844	Fardeen Shroff	5	5	5	5	4	20	4	5	3	5	4	18	19	34	53
B-843	Harsh Anil Shirke	5	5	5	5	3	20	5	5	5	4	3	18	19	56	75
B-842	Kasturi shinde	5	5	5	5	5	20	5	5	5	4	5	20	20	58	78
B-841	Vedika Shetty	5	4	5	4	5	19	5	4	5	3		17	18	58	76
B-840	Khushi Shetty	5	5	5	5	'	20	5	5	5	5	3	20	20	56	76
B-839	Shreyas Shantaram Shete	5	5	5	5	1	20	3	3	5		5	16	18	51	69
B-838	Kartik Shelar	5	4	4	5	-	18	5	4	5	5	3	19	19	69	88
B-836	Saddam Azibar Rehaman Shai	5	5	5	5	5	20	4	3	5	3	5	17	19	53	72
B-835	SHAIKH MUSAB NAWAB	4	5	2	5		16	3	4	5	3		15	16	51	67
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MANJARA CHARITABLE TRUST RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

Department of Computer Engineering

Academic Year 2022-23

B.E. SEM-VIII	Course Name: APPLIED DATA SCIENCE	Course Code: CSDC8013
	CO Attainment	
	Level of CO attainment	
	No. of students having marks > cut-off	Level
	No. of students having marks>=60%	3
	No. of students having marks 50% to 59%	2
	No. of students having marks40% to 49%	1

				IN	JTEDI	NAL E	T/ATT	TATIO	N				EX	TERN	AL
				111	VI EK	NAL E	VALC	AIIO	11				EVA	LUAT	ION
CO ATTAINMENT LEVEL		TEST I TEST II											As	sesme	nts
	Q1	Q2	Q3	Q4	Q5	Total	Q1	Q2	Q3	Q4	Q5	Total	IA	EXAN	Total
Maximum Marks>	5	5	5	5	5	20	5	5	5	5	5	20	20	80	100
Mapping CO>	C01	CO2	C02	CO3	CO3		CO4	CO4	CO5	CO5	CO6			All CC)
No. of students having marks>=60%	150	125	126	122	66	140	136	112	143	100	48	140	143	119	130
No. of students having marks 50% to 59%	0	6	2	1	4	1	10	25	3	7	2	5	5	23	19
No. of students having marks40% to 49%	0	5	12	4	3	5	0	0	0	0	0	5	1	10	2
Internal & External Evaluation	3	2.88	2.81	2.93	2.86	2.92	2.93	2.82	2.98	2.93	2.96	2.90	2.95	2.72	2.85

	CALCULATION OF FINAL ATTAINMENT LEVEL												
Course Outcome	Test 1	Test 2	Internal Evaluation Average	University Evaluation	80% of External+20% of internal examination								
CO1	3.00		3.00	2.72	2.78								
CO2	2.85		2.85	2.72	2.75								
CO3	2.90		2.90	2.72	2.76								
CO4		2.87	2.87	2.72	2.75								
CO5		2.96	2.96	2.72	2.77								
CO6		2.96	2.96	2.72	2.77								

MANJARA CHARITABLE TRUST RAJIV GANDHI INSTITUTE OF TECHNOLOGY, MUMBAI

Department of Computer Engineering

Academic Year 2022-23

CO with PO mapping as per Articulation matrix

B.E. S	E. SEM-VIII Course Name: APPLIED DATA SCIENCE Course Code: CSDC8013														
		Articulation Matrix													
	COUSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO-1	To apply fundamental knowledge of the data science process.	3	1	1	2	1					1				
CO-2	To apply data exploration and visualization techniques	2	3	1	3	1	2							1	
CO-3	To apply anomaly detection techniques.		1	1	2	1									
CO-4	To apply an in-depth understanding of time-series forecasting.	2	1	1	2	1								1	2
CO-5	Apply different methodologies and evaluation strategies.	2	2	1	2	3		-			1		1		2
CO-6	To apply data science techniques to real world applications.	1	2	1	2	2							1	3	3
	AVERAGE ATTAINMANT	2.00	1.67	1.00	2.17	1.50	2.00				1.00		1.00	1.67	2.33

As per Articulation matrix, mapping of CO with PO

COURSE NAME: Applied Data Science COURSE CODE: CSDC8013															
	COUSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO-1	To apply fundamental knowledge of the data science process.	2.78	0.92	0.92	1.83	0.92			1	-	0.92	-		1	
CO-2	To apply data exploration and visualization techniques	1.81	2.75	0.91	2.75	0.91	1.81							0.91	
CO-3	To apply anomaly detection techniques.		0.91	0.91	1.82	0.91									
CO-4	To apply an in-depth understanding of time-series forecasting.	1.82	0.91	0.91	1.82	0.91						-		0.91	1.82
CO-5	Apply different methodologies and evaluation strategies.	1.83	1.83	0.91	1.83	2.77					0.91		0.91		1.83
CO-6	To apply data science techniques to real world applications.	0.91	1.83	0.91	1.83	1.83			1	ı		1	0.91	2.77	2.77
	AVERAGE ATTAINMANT	1.83	1.53	0.91	1.98	1.38	1.81				0.92		0.91	1.53	2.14

 $\textbf{3.3 Attainment of Program Outcomes and Program Specific Outcomes} \ (50)$

Total Marks 50.00

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

Institute Marks: 10.00

- First the mapping between the individual Courses or subjects and the learning outcomes in terms of program Outcomes and Program Specific Outcomes has been carried out.
- Performance in these courses is then analyzed in detail to measure the degree to which the Program Outcomes and Program Specific Outcomes are attained.
- PO Assessment Tools
 - · Assessment tools are categorized into direct and indirect methods to assess the program Specific outcomes, program outcomes and course outcomes.
 - Direct method increases the student knowledge and skill for their performance in the continuous assessment tests, end–semester examinations, presentations, and classroom assignments etc.

1. Direct Tools:

- Internal Assessment I & II
- Assignments
- Tutorials
- Experiments
- · Subject / Course Project
- Industrial Visits
- Presentation
- Final University Examination (Subject / Oral /Practical)

• CALCULATION OF COURSE OUTCOME ATTAINMENT LEVEL

Estimating the Levels wrt students marks

Cut-off %	Level
No. of students having marks>=60%	3
No. of students having marks between 50% to 59%	2
No. of students having marks between 40% to 49%	1

Note: High Scoring subjects can elevate the attainment level with justification (If the results are observed consistently high, No failures or Number of failures are less, any other) for e.g. PCE I and PCE II

Enter the data of each student:

ATTAINMENT THROUGH SUBJECTS

Name of students	IA	.1	IA	.2	ASSIGI	NMENT	EXPER	IMENT	COURSE PROJECT / IV /	UNIVER
	Q1	Q2	Q1	Q2	A 1	A2	E1	E2	PRESENTATION	EXAM
Max Marks										
Student 1										
Student 2										
Student 3										
Student 100										
Total No. of students appeared										
Total No. of students scored above 60										
Total No. of students scored =>50 and <59										
Total No. of students scored =>40 and <49										
Mapping CO										All COs
Attainment Level										

Calculation of Attainment Level

Ex.

If Total no of students are 100

Total No. of students scored above 60 = 50

Total No. of students scored above 50 and <59 = 25

Total No. of students scored above 40 and <49 = 25

Then Attainment Level = (50 x 3 + 25x2 + 25x1) / 100 = 2.25

External Assessment 80% and Internal Assessment 20% Calculation

		Internal As	sessment (20º	%)	External Assessment (80%)	80% of External+20%
Course Outcome	IA-I OR IA-II	Experiment	Assignment	Internal Evaluation Average	University Evaluation	of internal examination
CO1	2.87	2.87	2.66	2.8	1.7	1.92
CO2	2.92	2.81	2.66	2.8	1.7	1.92
CO3	2.66		2.66	2.66	1.7	1.89
CO4	2.82		2.66	2.74	1.7	1.91
CO5			2.66	2.66	1.7	1.89
CO6			2.66	2.66	1.7	1.89

Articulation Matrix: (Converting Levels to Scores)

- Level 3 = Actual score
- Level 2 = Actual Score x 2 / 3
- Level 1 = Actual Score x 1 / 3

Actual Score	CO PO Attainment as per weightage									
	3	2	1							
1.92	1.92	1.28	0.64							
1.92	1.92	1.28	0.64							
1.89	1.89	1.26	0.63							
1.91	1.91	1.27	0.64							
1.89	1.89	1.26	0.63							
1.89	1.89	1.26	0.63							

DIRECT ATTAINMENT OF COURSE OUTCOMES WITH PO (Articulation Matrix gets converted to Score Based Matrix)

CO / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1.92	1.28	0.64	1.28							-	1.28		
CO2	1.28	1.28	1.28	1.92	0.64						1.28	1.28		
CO3	1.26	1.89	1.89	1.89	1.26	1.26	0.63	1.26			1.26	1.26		
CO4	1.19	1.27	0.64	1.27	1.27		0.64				0.64	0.64		
CO5	0.64	1.26	0.63	0.63							1.26	1.26		
CO6	1.26	1.89	1.89	1.89	1.89	1.26	1.26	0.63			1.26	1.26		
AVG	1.26	1.48	1.16	1.48	1.27	1.26	0.84	0.95		-	1.14	1.16		

DIRECT ATTAINMENT OF PROGRAM OUTCOMES (Considering all Subjects)

Year	Sem.	Name of Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	P08	P09	P10	P11	P12	PSO1	PSO2
	ı	FEC101														
FE		FEC102														
	II	FEC201														
		FEC202														
	III	CSC301														
SE		CSC302														
5_	IV	CSC401														
		CSC402														

	V	CSC501												
TE		CSC502	1.26	1.48	1.16	1.48	1.27	1.26	0.84	0.95	-	 1.14	1.16	
'-	VI	CSC601												
		CSC602												
	VII	CSC701												
BE		CSC702												
	VIII	CSC801												
		CSC802												
	Avera	ige												
	Direct	80 %												

For Calculation of Direct attainment level of

Total of attainment Level

PO=

No of courses for that particular PO

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

Institute Marks: 40.00

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CSC301	1.12	0.96	PO3	0.96	0.96	PO6	PO7	PO8	PO9	PO10	PO11	0.96
CSC302	2.27	2.43	1.61	1.77	PO5	P06	PO7	PO8	PO9	PO10	PO11	PO12
CSC303	1.92	1.94	1.15	2.03	2.18	P06	PO7	PO8	PO9	PO10	PO11	2.07
CSC304	1.46	1.13	1.16	1.35	0.97	P06	PO7	PO8	PO9	PO10	PO11	PO12
CSC305	1.85	1.57	1	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	0.80
CSC401	2.25	0.96	PO3	0.96	0.96	P06	PO7	PO8	PO9	PO10	PO11	0.96
CSC402	1.99	2.49	1.66	1.82	1.66	P06	PO7	PO8	0.66	1.66	0.83	1.66
CSC403	2.60	1.78	0.97	1.95	0.97	2.43	0.97	PO8	PO9	2.83	0.97	0.97
CSC404	1.97	1.64	0.99	1.58	0.99	P06	PO7	PO8	PO9	PO10	PO11	1.97
CSC405	1.96	1.14	0.97	0.98	0.98	P06	PO7	PO8	PO9	PO10	PO11	0.99
CSC501	1.61	1.61	0.98	0.98	0.98	P06	P07	PO8	PO9	PO10	PO11	PO12
CSC502	2.17	1.97	1.64	1.38	1.77	1.97	0.98	2.99	2.99	1.97	1.97	0.98
CSC503	1.94	1.62	1.79	1.77	1.71	1.95	PO7	PO8	PO9	PO10	PO11	PO12
CSC504	2.27	2.08	0.91	1.70	1.85	P06	0.94	PO8	PO9	0.94	PO11	0.94
CSC601	1.60	1.60	1.39	0.88	PO5	P06	PO7	PO8	PO9	PO10	PO11	0.87
CSC602	1.65	0.90	0.90	1.57	0.79	P06	PO7	PO8	PO9	PO10	PO11	1.78
CSC604	2.65	1.65	1.86	0.94	PO5	P06	P07	PO8	PO9	PO10	PO11	0.93
CSC701	2.07	1.43	1.75	1.90	1.14	P06	PO7	PO8	1.44	PO10	1.91	1.27
CSC702	2.04	1.57	1.41	1.57	0.94	P06	PO7	PO8	1.65	1.40	PO11	0.96
CSC801	1.95	1.80	1.35	1.43	1.80	0.90	P07	PO8	PO9	PO10	PO11	PO12
CSDC7011	2.46	2.16	1.47	2.78	1.38	P06	PO7	PO8	PO9	2.73	PO11	2.78
CSDC7013	2.13	1.41	1.02	2.04	1.71	P06	PO7	0.85	PO9	PO10	PO11	0.85
CSDC7022	1.77	1.06	0.88	1.77	0.88	1.77	0.88	PO8	2.65	2.65	PO11	PO12
CSDC8013	1.83	1.53	0.91	1.98	1.38	1.81	PO7	PO8	PO9	0.92	PO11	0.91
CSDC8023	1.80	1.37	0.98	1.97	1.99	2.95	PO7	0.97	PO9	PO10	PO11	PO12

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CSDL8013	2.63	1.97	1.96	1.63	2.30	PO6	P07	PO8	PO9	PO10	PO11	PO12
CSDL8023	1.79	1.36	0.97	1.36	1.96	2.95	P07	0.97	PO9	PO10	PO11	PO12
CSDLO5012	1.97	1.95	2.78	1.95	2.95	2.95	0.97	2.95	2.95	0.97	PO11	2.95
CSDLO5013	1.3	1.2	1.2	1.2	1	PO6	PO7	PO8	1.31	PO10	PO11	PO12
CSDLO6011	1.30	1.95	2.95	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
CSDLO6012	2.74	1.65	1.08	1.81	0.90	PO6	P07	0.90	PO9	PO10	PO11	0.90
CSDLO6013	2.37	1.47	0.88	1.77	0.88	PO6	PO7	0.88	PO9	PO10	PO11	1.42
CSL301	2.37	2.20	0.94	1.88	2.86	PO6	P07	PO8	PO9	PO10	PO11	2.20
CSL303	1.69	1.95	0.98	PO4	0.98	PO6	P07	PO8	PO9	PO10	PO11	0.98
CSL304	2.48	1.82	1.49	2.15	1.99	PO6	P07	PO8	2.98	2.98	PO11	1.24
CSL401	1.98	1.65	1.65	1.65	1.98	P06	P07	PO8	0.99	1.65	0.99	1.65
CSL402	2.41	1.85	0.93	2.04	0.94	1.85	0.95	PO8	PO9	2.83	0.93	0.95
CSL403	1.86	1.55	0.93	1.49	0.93	PO6	PO7	PO8	PO9	PO10	PO11	1.86
CSL405	2.82	1.97	1.81	2.31	2.31	PO6	P07	PO8	2.99	2.99	PO11	1.32
CSL501	1.97	1.97	1.97	1.48	1.64	1.97	P07	2.99	2.99	1.97	1.97	0.98
CSL501	2.06	1.97		1.40	1.84	1.84	P07	PO8	PO9	PO10	PO11	PO12
			1.74									
CSL503	2.58	2.58	1.63	2.11	2.19	P06	0.93	PO8	PO9	PO10	PO11	0.92
CSL504	PO1	PO2	PO3	PO4	PO5	P06	P07	3	1.75	1.75	PO11	1
CSL601	1.8	1.8	PO3	1.8	1	P06	PO7	PO8	PO9	PO10	PO11	1
CSL604	2.68	1.61	1.92	0.96	PO5	PO6	P07	PO8	PO9	PO10	PO11	0.96
CSL605	1.50	1.66	1.99	1.99	1.99	2.49	P07	PO8	PO9	PO10	PO11	PO12
CSL701	2.31	1.96	1.96	2.30	0.98	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CSL702	2.13	1.73	1.35	1.54	0.96	PO6	PO7	PO8	1.94	1.28	PO11	0.96
CSL801	2.05	1.90	1.42	1.51	1.89	0.94	P07	PO8	PO9	PO10	PO11	PO12
CSM301	1.75	1.75	1.67	1.29	1.50	2.25	1	1.67	2.50	2	1	1.25
CSM401	1.75	1.75	1.67	1.29	1.50	2.25	1	1.67	2.50	2	1	1.25
CSM501	1.73	1.73	1.78	2.32	1.24	1.99	1.32	2	2.66	2.19	1.49	1.74
CSM601	1.70	1.70	1.75	2.28	1.22	1.96	1.30	1.96	2.62	2.16	1.46	1.71
CSP701	1.73	1.73	1.78	2.32	1.24	2.49	0.99	2	2.49	1.98	1.49	1.66
CSP801	1.74	1.66	1.65	1.82	1.82	1.48	2	2.99	1.99	1.79	0.99	1.65
FEC101	1.49	0.75	0.75	0.75	0.75	PO6	P07	PO8	PO9	PO10	PO11	0.75
FEC102	2.05	1.46	0.88	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	1.32
FEC103	0.93	PO2	0.94	PO4	0.93	PO6	P07	PO8	PO9	PO10	PO11	1.71
FEC104	1.83	0.91	0.91	0.91	PO5	PO6	P07	PO8	PO9	0.91	PO11	PO12
FEC105	1.33	0.66	PO3	PO4	PO5	PO6	P07	PO8	PO9	PO10	PO11	PO12
FEC201	1.74	0.87	0.87	0.87	0.87	PO6	PO7	PO8	PO9	PO10	PO11	0.87
FEC202	1.63	1.19	PO3	PO4	PO5	PO6	PO7	PO8	1.78	PO10	PO11	1.04
FEC203	1.40	1.57	0.93	PO4	PO5	2.86	2.21	PO8	PO9	PO10	PO11	0.93
FEC204	0.97	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	0.97	PO11	PO12
FEC205	2.07	1.58	1.16	1.93	1.69	PO6	PO7	PO8	PO9	PO10	PO11	1.52
FEC206	PO1	PO2	PO3	PO4	PO5	PO6	PO7	0.76	0.76	0.76	PO11	0.76
FEL103	1.23	0.62	0.62	0.62	PO5	P06	P07	PO8	PO9	0.62	PO11	PO12
FEL104	1.99	1.99	PO3	PO4	PO5	PO6	PO7	0.99	3	PO10	PO11	PO12
FEL105	1.99	1.44	0.89	PO4	1.81	1.81	PO7	0.89	PO9	1.81	PO11	1.44
FEL203	0.97	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	0.97	PO11	PO12
FEL206	1.46	1.30	0.99	PO4	PO5	PO6	PO7	PO8	PO9	0.90	PO11	1.02
ILO7013	1.44	PO2	0.96	0.95	0.96	1.9	1.445	1.9	PO9	PO10	0.96	1.93
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ILO7016	1.17	1.48	1.36	1.90	1.52	2.26	1.68	PO8	PO9	PO10	PO11	PO12
ILO7017	1.72	1.03	1.29	PO4	PO5	2.60	2.31	1.72	0.86	1.87	1.94	1.43
ILO8028	1.57	2.27	1.57	1.57	1.80	2.73	1.81	1.81	2.73	1.91	1.79	0.90
ILO8029	1.06	0.70	PO3	PO4	PO5	0.70	2.13	2.13	PO9	2.13	PO11	2.13

PO Attainment Level

Course	PO1	PO2	РО3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	1.89	1.62	1.40	1.67	1.50	2.03	1.41	1.82	2.09	1.82	1.39	1.37
Direct Attainment	1.87	1.59	1.35	1.61	1.45	2.08	1.36	1.77	2.13	1.77	1.36	1.31
InDirect Attainment	1.95	1.73	1.58	1.93	1.69	1.83	1.60	2.04	1.94	2.02	1.50	1.60

PSO Attainment

Course	PSO1	PSO2
CSC301	PSO1	PS02
CSC302	0.97	PS02
CSC303	1.33	1.77
CSC304	PSO1	PS02
CSC305	1.57	PSO2
CSC401	PSO1	PS02
CSC402	1.99	1.99
CSC403	1.85	1.93
CSC404	1.97	2.99
CSC405	PSO1	PSO2
CSC501	PSO1	PSO2
CSC502	PSO1	1.96
CSC503	0.97	1.93
CSC504	1.41	2.52
CSC601	0.87	PSO2
CSC602	0.90	1.79
CSC603	1.30	1.96
CSC604	1.96	PSO2
CSC701	1.53	1.91
CSC702	0.94	1.88
CSC801	PSO1	1.80
CSDC7011	1.84	1.83
CSDC7013	1.36	2.21
CSDC7022	1.77	1.77
CSDC8013	1.53	2.14
CSDC8023	1.97	PSO2
CSDL8013	2.30	2.47
CSDL8023	1.97	PSO2
CSDLO5012	2.10	1.95
CSDLO5013	1	1
CSDLO6011	2.96	PSO2
CSDLO6012	1.27	2.28
CSDLO6013	1.18	2.06
CSL301	1.64	1.88

CSL303	1.96	PSO2
CSL304	1.98	2.31
CSL401	1.98	1.98
CSL402	1.85	1.83
CSL403	0.93	1.86
CSL405	1.97	2.31
CSL501	0.98	1.97
CSL502	0.61	1.83
CSL503	1.84	2.49
CSL504	1	PSO2
CSL601	1	PSO2
CSL604	1.93	PSO2
CSL605	1.50	1.99
CSL701	1.96	1.96
CSL702	0.96	1.93
CSL801	PSO1	1.89
CSM301	1.75	2.17
CSM401	1.75	2.17
CSM501	1.33	2.24
CSM601	1.30	2.20
CSP701	1.66	2.32
CSP801	1.49	2.31
FEC101	PSO1	PSO2
FEC102	PSO1	PSO2
FEC103	PSO1	PSO2
FEC104	PSO1	PSO2
FEC105	PSO1	PSO2
FEC201	PSO1	PSO2
FEC202	PSO1	PSO2
FEC203	PSO1	PSO2
FEC204	PSO1	PSO2
FEC205	1.74	1.16
FEC206	0.76	PSO2
FEL103	PSO1	PSO2
FEL104	PSO1	PSO2
FEL105	PSO1	PSO2
FEL203	PSO1	PSO2
FEL206	PSO1	PSO2
ILO7013	1.93	2.88
ILO7016	1.39	1.52
ILO7017	0.88	0.86
ILO8028	0.89	1.81
ILO8029	1.18	PSO2
PSO Attainment	1.59	2.00

PSO Attainment Level

Course PSO1 PSO2

Direct Attainment	1.51	2.00
InDirect Attainment	1.93	1.98

4 STUDENTS' PERFORMANCE (150)

Total Marks 123.42

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2023-24 (CAY)	2022-23 (CAYm1)	2021- 22(CAYm2)	2020- 21(CAYm3)	2019- 20(CAYm4)	2018-19 (CAYm5)	2017-18 (CAYm6)
Sanctioned intake of the program(N)		120	120	120	120	120	120
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	119	120	120	119	120	120	120
Number of students admitted in 2nd year in the same batch via lateral entry (N2)		12	12	12	12	12	24
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	119	132	132	131	132	132	144

Table 4.2

Year of entry	Total No of students admitted in	Number of students who have successfully graduated without backlogs in any semester/ year of study (Without Backlog means no compartment or failures in any semester/ year of study)					
	the program (N1 + N2 + N3)	l year	II year	III year	IV year		
2023-24 (CAY)	119	0	0	0	0		
2022-23 (CAYm1)	132	50	0	0	0		
2021-22 (CAYm2)	132	99	60	0	0		
2020-21 (CAYm3)	131	119	126	108	0		
2019-20 (LYG)	132	86	97	95	92		
2018-19 (LYGm1)	132	73	82	81	81		
2017-18 (LYGm2)	144	66	88	82	82		

Table 4.3

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]				
		l year	II year	III year	IV year	
2023-24 (CAY)	119	0	0	0	0	
2022-23 (CAYm1)	132	120	0	0	0	
2021-22 (CAYm2)	132	120	132	0	0	
2020-21 (CAYm3)	131	119	130	130	0	
2019-20 (LYG)	132	120	132	132	129	
2018-19 (LYGm1)	132	112	123	122	122	
2017-18 (LYGm2)	144	120	131	125	125	

4.1 Enrolment Ratio (20)

Total Marks 20.00

Institute Marks : 20.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2023-24 (CAY)	120	119	99.17
2022-23 (CAYm1)	120	120	100.00
2021-22 (CAYm2)	120	120	100.00

Average [(ER1 + ER2 + ER3) / 3]: 99.72

Assessment: 20.00

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

Total Marks 29.60 Institute Marks : 15.75

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

Item	Latest Year of Graduation, LYG (2019- 20)	Latest Year of Graduation minus 1, LYGm1 (2018-19)	Latest Year of Graduation minus 2 LYGm2 (2017-18)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	132.00	132.00	144.00
Y Number of students who have graduated without backlogs in the stipulated period	92.00	81.00	82.00
Success Index [SI = Y / X]	0.70	0.61	0.57

Average SI [(SI1 + SI2 + SI3) / 3]: 0.63

Assessment [25 * Average SI]: 15.75

4.2.2 Sucess rate in stipulated period (15)

Item	Latest Year of Graduation, LYG (2019- 20)	Latest Year of Graduation minus 1, LYGm1 (2018-19)	Latest Year of Graduation minus 2 LYGm2 (2017-18)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	132.00	132.00	144.00
Y Number of students who have graduated in the stipulated period	129.00	122.00	125.00
Success Index [SI = Y / X]	0.98	0.92	0.87

Average SI[(SI1 + SI2 + SI3) / 3]: 0.92

Assessment [15 * Average SI]: 13.85

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

4.3 Academic Performance in Third Year (15)

Total Marks 13.25

Institute Marks: 13.85

Institute Marks: 13.25

Academic Performance	CAYm3 (2020-21)	LYG (2019-20)	LYGm1 (2018-19)
Mean of CGPA or mean percentage of all successful students(X)	8.24	8.97	9.37
Total number of successful students(Y)	130.00	132.00	122.00
Totalnumber of students appeared in the examination(Z)	130.00	132.00	123.00
API [X*(Y/Z)]:	8.24	8.97	9.29

Average API [(AP1 + AP2 + AP3)/3]: 8.83

Assessment [1.5 * AverageAPI]: 13.25

4.4 Academic Performance in Second Year (15)

Total Marks 10.97

Institute Marks: 10.97

Academic Performance	CAYm2 (2021-22)	CAYm3 (2020-21)	LYG (2019-20)
Mean of CGPA or mean percentage of all successful students(X)	3.91	8.77	9.33
Total number of successful students (Y)	132.00	130.00	132.00
Total number of students appeared in the examination (Z)	132.00	131.00	132.00
API [X * (Y/Z)]	3.91	8.70	9.33

Average API [(AP1 + AP2 + AP3)/3]: 7.31

Assessment [1.5 * AverageAPI]: 10.97

4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 29.60

Institute Marks: 29.60

Item	LYG (2019- 20)	LYGm1 (2018- 19)	LYGm2 (2017- 18)
Total No of Final Year Students(N)	132.00	122.00	125.00
No of students placed in the companies or government sector(X)	73.00	79.00	58.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	19.00	22.00	25.00
No of students turned entrepreneur in engineering/technology (Z)	4.00	0.00	0.00
x + y + z =	96.00	101.00	83.00
Placement Index [(X+Y+Z)/N] :	0.73	0.83	0.66

Average Placement [(P1 + P2 + P3)/3]: 0.74

Assessment [40 * Average Placement]: 29.60

Program Name :

Assessment Year Name : CAYm1

	71 II.U			
S.N	o Student Name	Enrollment No	Employee Name	Appointment No
1	Disha Dhako	2019016402519547	LogIQids	Logiquid Digital Offer Letter Dated 03.02.23
2	Labeeb Ansari	2019016402249616	Hindustan Unilever Ltd.	Hndustan Unilever Ltd Email Dated 06.05.2023
3	HARSH NITESH KADAM	2019016402249326	QSpider	QSpider Email Dated 21.01.23
4	PRADNYA RAVINDRA JADHAV	2020016402092991	QSpider	QSpider Email Dated 21.01.23
5	ANIKET NANUBHAI CHAUHAN	2019016402248675	MAQ Software	MAQ Software Email Dated 02.02.2023
6	Amogh Bidwe	2019016402249582	Alpha Payments	Alpha Payments Offer Letter Dated 04.04.2023
7	Ishani Ashokkumar	2019016402519926	TuringMind.AL	TuringMind Letter Dated 13.02.2023
8	Vedika Shetty	2019016402251364	TuringMind.AL	TuringMind Letter Dated 13.02.2023
9	Harsh Anil Shirke	2019016402248501	BNP Paribas India Solutions	BNP Paribas Offer Letter dates 18 May 2023
10	Shreya Sujit Raul	2019016402251325	BNP Paribas India Solutions	BNP Paribas Offer Letter dates 18 May 2023
11	Abhishek Pillai	2019016402519787	Mindcraft Software Pvt Ltd	Mindcraft Offer Letter Dated 01.03.23
12	Hinal Jethava	2019016402249833	Mindcraft Software Pvt Ltd	Mindcraft Offer Letter Dated 01.03.23
13	Om Rane	2019016402250426	Mindcraft Software Pvt Ltd	Mindcraft Offer Letter Dated 01.03.23
14	Yash Gavanang	2019016402250473	Mindcraft Software Pvt Ltd	Mindcraft Offer Letter Dated 01.03.23
15	Mohammed Asaad Shaikh	2019016402250883	Flair Labs	Flair Labs Mail Dated 31.03.23
16	Mohit Sancheti	2019016402250755	Flair Labs	Flair Labs Mail Dated 31.03.23
17	Altamash Siddique	2019016402249686	DigiPlus IT	DigitPlus Email Dated 20.03.23
18	Tanvi Sanjay Visapurkar	2019016402251155	Cognitus Consulting	Cognitus Offer Letter Dated 14.04.23
19	Shubham Gupta	2019016402249791	Flair Labs	Flair Labs Mail Dated 31.03.23
20	Tushar Panchmukh	2019016402251132	Alpha Payments	Alpha Payments Offer Letter Dated 04.04.2023
21	Numan Khan	2020016402092163	Alpha Payments	Alpha Payments Offer Letter Dated 04.04.2023
22	Samar Vishwakarma	2019016402248605	Alpha Payments	Alpha Payments Offer Letter Dated 04.04.2023
23	Kunal Bagde	2019016402249752	Alpha Plus Technologies Pvt Ltd.	Alpha Plus Technologies Offer Letter Dated 05 MAY 2023
24	Neel M. Tilak	2020016402099325	Optimum Financial Solution Pvt. Ltd	Optimum Finance Offer Letter Dated 20.05.23
25	Shreyas Kamath	2019016402250836	Optimum Financial Solution Pvt. Ltd	Optimum Finance Offer Letter Dated 20.05.23
26	Shivam Singh	2019016402251317	Optimum Financial Solution Pvt. Ltd	Optimum Finance Offer Letter Dated 20.05.23
27	Saddam Shaikh	2019016402248377	Optimum Financial Solution Pvt. Ltd	Optimum Financial Solution Pvt. Ltd
28	Rithik Jaiprakash Rai	2019016402249906	ACMEGRADE	Acmegrade Offer Letter Dated 31.05.23
29	Anushka Pede	2019016402249543	Alpha Plus Technologies	Appointment Letter no APT/CSD/0723/APPT No. 579
30	Rohini Chavhan	2020016402087831	Alpha Plus Technologies	Appointment Letter no APT/CSD/0723/APPT No. 580
31	Fletcher Fernandis	2019016402248892	RUDRA Cybersecurity Pvt.Ltd.	RUDRA Cyber Offer Letter Dated 19/05/2023
32	Khushi Shetty	2019016402250701	Picostone Technology Pvt. Ltd.	Picostone Offer Letter Dated 05.11.2023
33	Akshar Mehta	2019016402249574	Perth Computer Solutions	PERTH COMPUTER SOLUTION Offer Letter Dated 02-JUNE-2023
34	Neha Bhange	2019016402519725	Accenture	Accenture Offer Letter Dated 27.10.23
35	Hardik Sakpal	2020016402099186	Dirtcube Interactive	Dirtcube Interactive Offer Letter Dated 09.07.2023
36	Karan Parmar	2019016402519524	MERCLE APEX LAB	MERCLE APEX LAB Offer Letter Dated 17.08.2023
37	Harshal Sawant	2019016402249195	ZESU LEARNING	Zeus Leaning Offer Letter Dated 09.08.2023
38	Rishank Shah	2019016402249914	Dolat Capital	Dolat Capital Email dated 06.08.22
39	Sakshi Vilas Khair	2019016402249075	BNP Paribas India Solutions	BNP Paribas offer Letter dates 18 May 2023
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40	Yogita Pandurang Chaudhari	2019016402249245	MAQ Software	MAQ Software email dated 02.02.2023
41	Pratika Hanumant Chavan	2019016402248795	Vistaar Systems Pvt. Limited	Vistaar System Pvt Ltd email dated 10.09.2022
42	Mihir Vartak	2019016402249237	Vistaar Systems Pvt. Limited	Vistaar System Pvt Ltd email dated 10.09.2022
43	Neha Madhusudan Aadke	2019016402250264	Stavtar	STAVTAR offer Letter dates 15 SEPTEMBER 2022
44	Nilesh Sahu	2019016402250113	Stavtar	STAVTAR offer Letter dates 15 SEPTEMBER 2022
45	Vinayak Ramchandra Maskar	2019016402250507	LenDen Club	Lendenclub Tech. Offer Letter dated 30.05.23
46	Somesh Kshirsagar	2019016402249423	Cybage	Cybage offer Letter dated 24.02.2023
47	Krunal Kharat	2019016402251004	Cybage	Cybage offer Letter dated 24.02.2023
48	Mohammed Anas Sarfaraz Shaikh	2020016402100025	Cybage	Cybage offer Letter dated 24.02.2023
49	Sameer Kanade	2019016402250392	Cybage	Cybage offer Letter dated 24.02.2023
50	Harsh Tripathi	2019016402249044	Cybage	Cybage offer Letter dated 24.02.2023
51	Nikhil Gupta	2019016402249895	Cybage	Cybage offer Letter dated 24.02.2023
52	Kartikkumar Mahindrakar	2019016402248404	Ganit	GANIT offer Letter no GANIT/HR/CR/2022 dated 02/11/22
53	Amaan Anwar Kamil	2019016402248903	Tata Consultancy Services Limited	TCS Offer Letter no TCSL/CT20223952907/Mumbai Dated 01/10/22
54	Anusha Sunilkumar	2019016402248362	BNP Paribas India Solutions	BNP Paribas Offer Letter dates 18 May 2023
55	Bhagyasha Nitin Patil	2019016402248942	Tata Consultancy Services Limited	TCS Offer Letter no TCSL/CT20224018472/Mumbai Dated 01/10/22
56	Kingshuk Subrata Debnath	2019016402519764	Tata Consultancy Services Limited	TCS Offer Letter no TCSL/CT20224018472/Mumbai Dated 01/10/22
57	Mamta Arjun Bandgar	2019016402250314	BNP Paribas India Solutions	BNP Paribas Offer Letter dates 18 May 2023
58	Sara Gopikrishna Ghadigaokar	2019016402249817	Tata Consultancy Services Limited	TCS Offer Letter no TCSL/CT20224018472/Mumbai Dated 01/10/22
59	Shanmukh Bhutada	2019016402250191	Tata Consultancy Services Limited	TCS Offer Letter no TCSL/CT20224009870/Mumbai Dated 01/10/22
60	Shubhansh Jha	2019016402250875	Tata Consultancy Services Limited	TCS Offer Letter no TCSL/CT20224009870/Mumbai Dated 01/10/22
61	Vishal Chotelal Yadav	2019016402248427	Tata Consultancy Services Limited	TCS Offer Letter no TCSL/CT20224009870/Mumbai Dated 01/10/22
62	Akash Solunke	2019016402249005	Tata Consultancy Services Limited	TCS Offer Letter no TCSL/CT20222976099/Mumbai Dated 01/10/22
63	Zishaan Anwar Sayyed	2019016402249705	Ganit	GANIT Offer Letter no GANIT/HR/CR/2022 Dated 02/11/22
64	Akash Sahani	2019016402251333	C2L Biz Solutions Pvt. Limited	C2BIZ Offer Letter Dated 08/11/2022
65	Devansh Trivedi	2019016402250175	Tata Consultancy Services Limited	TCS Offer Letter no TCSL/CT20223854935/Mumbai Dated 01/10/22
66	Suraj Tiwari	2019016402249052	C2L Biz Solutions Pvt. Limited	C2BIZ Offer Letter Dated 08/11/2022
67	Vanshita Lavange	2019016402250256	LenDen Club	Lendenclub Tech. Offer Letter Dated 30.05.23
68	Elrisha Eugine Dsilva	2019016402248516	Reliance Retail Limited	Reliance Retail Offer Letter No- HR/JUN/23/A3/60975020/60552222/1001470789 Dated 05/06/2023
69	Harsheet Nitin Sony	2019016402248717	Burns and Mcdonell	Burns & Mcdonell Email Dated 05/12/2022
70	Harsh Jagdish Gharat	2019016402248861	Qualty Kisosk	QualityKiosk Technologies Offer Letter Dated 14/01/23
71	Chiragkumar Shalendrab Maheto	2019016402250697	LenDen Club	Lendenclub Tech. Offer Letter Dated 30.05.23
72	Sahil Ghanshyam Singh	2019016402250094	LenDen Club	Lendenclub Tech. Offer Letter Dated 30.05.23
73	Prajwal Nanaware	2019016402250167	Newfold Software Solutuions	Newfold Digital Offer Letter Dated 21.02.23

Assessment Year Name : CAYm2

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S.	No	Student Name	Enrollment No	Employee Name	Appointment No
1		Aakanksha Chandrakant Patil	2018016401740042	Tata Consultancy Services Limited	TCS Email Dated 15.11.2021
2		Abhishek Mandar Mahakal	2018016401740347	Larsen and Toubro Infotech Limited	LTI Email Dated 01/09/2021
3		Abhishek Sunil Yadav	2018016401739673	Capgemini	Capgemini Email Dated 27.10.2021
4		Aditya Pramod Dhaware	2018016401740444	Capgemini	Capgemini Email Dated 27.10.2021
5		Adrian Dsouza	2018016401739947	Tata Consultancy Services Limited	TCS Email Dated 15.11.2021
6		Akshay Ashok Kedar	2018016401740703	Capgemini	Capgemini Email Dated 27.10.2021
7		Amreen Mehboob Khan	2019016402519480	Capgemini	Capgemini Email Dated 27.10.2021
8		Anagha Devendra Patil	2018016401739812	Zeus Systems Private Limited	Zeus Learning Offer Letter Dated 18th August, 2021
9		Anand Sanamdeep Singh	2018016401740123	Capgemini	Capgemini Email Dated 27.10.2021
10)	Aniket Sakharam Taral	2018016401740073	Capgemini	Capgemini Email Dated 27.10.2021
11		Aparna Agnihotri	2018016401740070	Cybage Software Pvt. Limited	Cybage Email Dated 20/12/2021
12	2	Apurva Somji	2019016402371910	Axis Bank Limited	Axis Bank Email Dated 15/02/2022
13	3	Arun Addagatla	2018016401739657	Larsen and Toubro Infotech Limited	LTI Email Dated 01/09/2021
14		Arundhati Raina	2018016401739650	Feedspot	DocuSign Envelope ID:58E83924-3A17-428B-B313-B42E7039CA67 Dated 14/02/2022
15	5	Aryan Bhupesh Patel	2018016401740282	Larsen and Toubro Infotech Limited	LTI Email Dated 01/09/2021
16	;	Ashitosh Mohite	2019016402371880	Axis Bank Limited	Axis Bank Email Dated 15/02/2022
17		Ayush Vinod Dubey	2018016401740517	Capgemini	Capgemini Email Dated 27.10.2021
18	3	Bhavya Bipin Badani	2019016402371853	Capgemini	Capgemini Email Dated 27.10.2021
19	,	Deep Prasar Mayekar	2019016402371870	Campus Connect Technologies Pvt. Limited	LoglQids Offer Letter Dated 21/02/2022
20)	Dhruvkumar Pravin Jain	2018016401740146	Capgemini	Capgemini Email Dated 27.10.2021
21		Disha Naresh Sankhe	2018016401739835	Tata Consultancy Services Limited	TCS Email Dated 15.11.2021
22	2	Durva Bharatbhushan Dev	2018016401739874	Tata Consultancy Services Limited	TCS Email Dated 15.11.2021
23	3	Gauri Surendra Morye	2018016401740541	Capgemini	Capgemini Email Dated 27.10.2021
24		Harsh Gandhi	2018016401740332	Zeus Systems Private Limited	Zeus Learning Offer Letter Dated 18th August, 2021
25	5	Hitesh Sanjay Bhalerao	2018016401739920	Jio Platform Ltd.	Jio Email Dated 10/03/2022
26	;	Husain Yusuf Thanawala	2019016402371840	Capgemini	Capgemini Email Dated 27.10.2021
27		Jayshree Bhagvat Salve	2019016402371890	C2L Biz Solutions Pvt. Limited	C2LBIZ Email Dated 17/02/2022
28	3	Jinay Ketankumar Vora	2018016402057276	Capgemini	Capgemini Email Dated 27.10.2021
29)	Kabir Zakir Shaikh	2018016401740297	Capgemini	Capgemini Email Dated 09.11.2021
30)	Kanchan Chaudhari	2018016401740502	Capgemini	Capgemini Email Dated 09.11.2021
31		Kartik Damodar Rokade	2019016402371837	Tata Consultancy Services Limited	TCSL/CT20213701832/Mumbai Dated 05/11/2021
32	2	Kashyap Gaurang Vyas	2018016401739924	Capgemini	Capgemini Email Dated 09.11.2021
33	3	Ketki Dhotre	2018016401739793	Capgemini	Capgemini Email Dated 09.11.2021
34		Khush Dave	2018016401740107	Cybage Software Pvt. Limited	Cybage Email Dated 20/12/2021
35	,	Kinjal Prabhu	2018016401740394	Axis Bank Limited	Axis Bank Email Dated 15/02/2022
36	5	Kshitij Harishchandra Jatekar	2018016401740081	Capgemini	Capgemini Email Dated 09.11.2021
37		Mahesh Madhav Ghuge	2019016402317810	Infosys Limited	Infosys Email Dated 24/12/2021
38	3	Manan Gosalia	2018016401739843	Tata Consultancy Services Limited	TCS Email screenshot Dated 07/12/2021
39	,	Mayuri Mane	2018016401739723	Vistaar Systems Pvt. Limited	Vistaar Offer Letter Dated 27/01/2022
40)	Mohammad Yusuf Siddiqi	2019016402519270	Infosys Limited	Infosys Email Dated 24/12/2021
41		Naitik Praveen Jain	2018016401739785	Capgemini	Capgemini Email Dated 09.11.2021
42	2	Ninad Umesh Satam	2018016401739634	Capgemini	Capgemini Email Dated 09.11.2021
43	3	Nitika Thingalaya	2018016401740266	Perkin Elmer	Perking Elmer Offer Letter Dated 03/02/2022
43	•	ıvıuка i піпдаіауа	2018016401740266	Perkin Eimer	Perking Eimer Offer Letter Dated 03/02/2022

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44	Pranali Rajendrakumar Khuspe	2018016401740452	Tata Consultancy Services Limited	TCS Email Dated 15.11.2021
45	Priyanka Rathod	2019016402371900	Axis Bank Limited	Axis Bank Email Dated 15/02/2022
46	Priyansha Bavishi	2018016401739762	Birlasoft Limited	Letter of Intent Dated 2/11/2021
47	Rahul Lal Bahadur Chauhan	2018016401739804	Capgemini	Capgemini Email Dated 27.10.2021
48	Raj Bhalchandra Pawar	2019016402371860	Cybage Software Pvt. Limited	Cybage Email Dated 20/12/2021
49	Rajith Shetty	2018016401740622	Cybage Software Pvt. Limited	Cybage Email Dated 20/12/2021
50	Rishabh Sunil Bhura	2018016401740193	Think & Learn Pvt. Limited (Byju)	Think & Learn Pvt. Limited(Byju) Email Dated 31/01/2022
51	Rohit Rakesh Singh	2018016401739932	Capgemini	Capgemini Email Dated 09.11.2021
52	Safwan Mohmed fazal Modak	2018016401740243	Birlasoft Limited	Letter of Intent Dated 3/11/2021
53	Sahil Anil Tanawade	2018016402057284	Capgemini	Capgemini Email Dated 09.11.2021
54	Sainam Nandkishor Satam	2018016402057365	Capgemini	Capgemini Email Dated 09.11.2021
55	Sakshat Sanjay Darne	2018016402057360	Capgemini	Capgemini Email Dated 09.11.2021
56	Sayali Ramdas Shirke	2018016401739696	DECIMAL POINT	DECIMAL POINT Email Dated 02/03/2023
57	Sebin Francis Kannampuzha	2018016402057311	Capgemini	Capgemini Email Dated 09.11.2021
58	Shivani Surve	2019016402519300	Infosys Limited	Infosys Email Dated 24/12/2021
59	Shivprasad Sundar Poojary	2018016401739746	Capgemini	Capgemini Email Dated 09.11.2021
60	Shivraj Chavan	2018016401740405	Larsen and Toubro Infotech Limited	LTI Email Dated 01/09/2021
61	Shrushti Warekar	2018016401740467	Axis Bank Limited	Axis Bank Email Dated 15/02/2022
62	Shubham Manish Hedavkar	2018016401740131	Birlasoft Limited	Letter of Intent Dated 3/11/2021
63	Siddhesh Ramesh Panchal	2018016402057292	Larsen and Toubro Infotech Limited	LTI Email Dated 01/09/2021
64	Sumedh Raju Kurhade	2018016401739665	Capgemini	Capgemini Email Dated 09.11.2021
65	Sumedh Vijay Thokal	2018016401740020	Capgemini	Capgemini Email Dated 09.11.2021
66	Sumit Kumar Singh	2018016401740026	Capgemini	Capgemini Email Dated 09.11.2021
67	Swapnil Govind Yadav	2018016401740227	C2L Biz Solutions Pvt. Limited	C2LBIZ Email Dated 17/02/2022
68	Tanush Shetty	2017016402366580	Axis Bank Limited	Axis Bank Email Dated 15/02/2022
69	Tejal Sanjay Palwankar	2018016401740212	Capgemini	Capgemini Email Dated 09.11.2021
70	Ujjwal Shivshankar Dixit	2018016401739851	Infosys Limited	Infosys Email Dated 24/12/2021
71	Urvashi Sudhir Thakre	2018016401740274	Capgemini	Capgemini Email Dated 09.11.2021
72	Varun Singh	2018016401740154	Cybage Software Pvt. Limited	Cybage Email Dated 20/12/2021
73	Vikram Sakharam Phonde	2018016401740162	Cybage Software Pvt. Limited	Cybage Email Dated 20/12/2021
74	Abhay Vekhande	2018016401740684	Newfold Digital	Newfold Digital Email Dated:06-04-2022
75	Devendra Ramnaresh Yadav	2018016402057261	Fintllix	Fintllix Email Dated: 28-06-2022
76	Kushal Dilip Kothari	2018016401740363	Reliance Industries Limited	Reliance Industries Limited Email Dated:29-06-2022
77	Mohammad Salik Khan	2018016401740587	Byju's The Learning Application	Byju's The Learning Application Email Dated:11-06-2022
78	Prerana Talwar	2018016401740606	Samsung Electronics	Samsung Electronics Email Dated:19-04-2022
79	Rohan Gaikwad	2017016402623053	Star Union Dai-ichi Life Insurance Limited	Star Union Dai-ichi Life Insurance Limited Offer Letter Dated:13-07-2022

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Pavitrakumar Surendra Panigrahi	2017016402364916	Capgemini	Capgemini email dated 28.9.2020
2	Archita Ajay Patil	2017016402365146	Capgemini	Capgemini email dated 28.9.2020
3	Tanay Parag Godse	2017016402364947	Capgemini	Capgemini email dated 28.9.2020
4	Neerajprasad Ramshrieshta Singh	2018016401989342	Capgemini	Capgemini email dated 28.9.2020
5	Vinit Hemant Vaidya	2017016402364537	Capgemini	Capgemini email dated 28.9.2020
6	Mrunank Diwakar Mistry	2017016402364336	Tata Consultancy Services Limited	TCS email dated 5.10.2021
7	Sanket Neman	2017016402365711	Axis Bank	Axis Bank email dated 26.11.2020
8	Mahek Khanna	2017016402367667	Axis Bank	Axis Bank email dated 26.11.2020
9	Ashish Sitaprao	2017016402366432	Endurance International	Endurance International email dated 4.12.2020
10	Omkar Chorghe	2017016402365115	Purplle	Purplle offer letter dated 1st July, 2021
11	Avadhoot Khedekar	2017016402364522	Jio Platforms Limited	Jio Platforms Limited email dated 17.12.2020
12	Anuradha More	2018016401989365	Tata Consultancy Services Limited	TCS email dated 25.12.2020
13	Pradeep Hore	2017016402364383	Tata Consultancy Services Limited	TCSL/CT20203076087/Mumbai dated 9.1.2021
14	Shubham Chiplunkar	2017016402365483	Tata Consultancy Services Limited	TCS email dated 25.12.2020
15	Bhagyesh Rane	2017016402365057	Tata Consultancy Services Limited	TCS email dated 25.12.2020
16	Moosa Ansari	2017016402366014	Tata Consultancy Services Limited	TCS email dated 25.12.2020
17	Anvita Thingalaya	2017016402365796	Tata Consultancy Services Limited	TCS email dated 25.12.2020
18	Soham Tale	2017016402366513	Tata Consultancy Services Limited	TCSI/CT20203083448/Mumbai 10/1/2021
19	Jitesh Gawas	2017016402622862	Tata Consultancy Services Limited	Tata Consultancy Services Limited offer letter dated 9.04.2021
20	Shreyans Kothari	2017016402365587	Tata Consultancy Services Limited	TCSL/DT20207368941/Pune 10.01.2021
21	Faiza Shaikh	2017016402366327	Infosys Limited	Infosys email dated 23.12.2020
22	Swati Shukla	2017016402366625	Infosys Limited	Infosys email dated 23.12.2020
23	Shailendrasingh Bisht	2017016402364804	Infosys Limited	Infosys email dated 23.12.2020
24	Himanshu Rathod	2017016402367636	Infosys Limited	Infosys email dated 23.12.2020
25	Amisha Ghevade	2017016402367153	Infosys Limited	Infosys email dated 23.12.2020
26	Aparna Nair	2017016402364321	Infosys Limited	Infosys email dated 23.12.2020
27	Sahil Palkar	2017016402366254	Infosys Limited	Infosys email dated 23.12.2020
28	Abhishek Jagushte	2017016402365966	Zeus Systems Pvt. Limited	Zeus Systems Pvt. Limited email dated 13.1.2021
29	Amit Nemade	16411620171123589	Zeus Systems Pvt. Limited	Zeus Systems Pvt. Limited email dated 13.1.2021
30	Pramod Redkar	2017016402365123	Infosys Limited	Infosys Limited email dated 3.2.2021
31	Saurav Katkar	2017016402365251	Infosys Limited	Infosys Limited email dated 3.2.2021
32	Adwait Krishnakumar	2017016402623103	LogiQids	LogiQids offer letter dated 17th March, 2021
33	Hith Jain	16411620171119038	Reliance Retail Limited	Reliance Retail Limited email dated 16-06-2021
34	Rohit Kedia	2017016402365347	Reliance Retail Limited	Reliance Retail Limited email dated 16-06-2021
35	Manasi Hodvadekar	2017016402366672	QAD India Pvt. Limited	QAD India Pvt. Limited offer letter dated 30/03/2021
36	Aniket Rai	16411620171118923	Depronto Infotech	Depronto Infotech offer letter dated 9 Apr, 2021
37	Sarthak Somvanshi	2017016402364715	Iksula Services Pvt. Limited	Iksula Services Pvt. Limited email dated 22.4.2021
38	Saloni Harish Vichare	2017016402366641	Iksula Services Pvt. Limited	Iksula Services Pvt. Limited email dated 22.4.2021

39	Pranjal Shukla	2017016402367563	Iksula Services Pvt. Limited	Iksula Services Pvt. Limited email dated 22.4.2021
40	Tanay Paralikar	2017016402367331	Mindstix Software Labs	Mindstix Software Labs offer letter dated 05/05/2021
41	Hardika Thakur	2018016401989551	Mitr Learning and Media Pvt. Ltd.	Mitr Learning and Media Pvt. Ltd. Offer letter dated 20/05/2021
42	Rahul Vinod Malgundkar	2017016402366382	Hansa Solutions	Hansa Solutions offer letter dated 14th June, 2021
43	Shashikant Ramavatar Gupta	2017016402366111	Hansa Solutions	Hansa Solutions offer letter dated 14th June, 2021
44	Vijay Shivaji Tembugade	2017016402365927	Mirraw Online Services Pvt. Limited	Mirraw Online Services Pvt. Limited offer letter dated 5 July, 2021
45	Chinmay Vartak	2017016402364924	Mirraw Online Services Pvt. Limited	Mirraw Online Services Pvt. Limited offer letter dated 5 July, 2021
46	Arbindkumar Yadav	2017016402367443	Expenzing	Expenzing email dated 23-06-2021
47	Shrusti Bhor	2017016402366126	Expenzing	Expenzing offer letter dated 27/06/2021
48	Nachiket Keshav Digha	2017016402364723	MKCL	Mahrastra Knowledge Corporation Limited offer letter Ref.:mkcl:hrd:08:2021-22 dated 29-June-2021
49	Vishal Shivaji Mote	2017016402365386	Fintellix	Fintellix email dated 19.7.2021
50	Shweta Shashikant Jadhav	2018016401989090	Fintellix	Fintellix offer letter dated 27.07.2021
51	Anuj More	2017016402366695	Capgemini	Capgemini offer letter dated referance letter 4116011/873586 19.07.2021
52	Kannan Nadar	2017016402364370	Iksula Services Pvt. Limited	Iksula Services Pvt. Limited Limited offer letter dated 21.09.2021
53	Akansha Goriwale	2018016401989102	Cateina Technologies	Cateina Technologies offer letter dated referance letter APT/2122/00022 Dated 16.07.2021
54	Rohit Gurkhe	2017016402364487	Decimal point analytics	Decimal point analytics Limited offer letter
55	Nandkishor Patil	2016016400976730	Travelxp Pvt. Limited	Travelxp Pvt. Limited offer letter dated 17.09.2021
56	Mrunal Kashte	2018016401988876	Wipro	Wipro offer letter dated 16.09.2021
57	Dhwanit Pimple	2017016402364352	JSW Paints Pvt. Limited	JSW Paints Pvt. Limited email dated 06.01.2022
58	Yashkumar Patel	2014016400909510	Transganization	Transganization offer letter dated 31.01.2021

4.6 Professional Activities (20)

Total Marks 20.00

 $\textbf{4.6.1 Professional socities/ chapters and organizing engineering events} \ (5)$

Institute Marks: 5.00

AY- 2022-2023									
S.No.	Name of event	Date of event	Resource Person with designation	No of Participants					
1	Recursion 4.0 Hackathon, Kavach 2023	16th - 17th March, 2023	RGIT CESS & RGIT CODECELL	23 Teams					
2	Cloud Computing Seminar	28th February, 2023	Prof. Yogesh Jadhav, Infodesk Compute Education.	120					
3	Cyber Security Seminar	28th September, 2022	Mr.Ansh Bhide, MrWebsecure Infosolutions Pvt Ltd	71					
4	Life After Engineering	29th September, 2022	Ms. Deepali Shinde, Walmart Global Technology	92					
5	Abroad Studies Semin	11th August, 2022	•	80					
6	Data Analytics Seminar	12th August, 2022	Mr. Rakesh Raut, Wipro.	76					
7	Overseas Education Seminar	25th January, 2023	Mrs. Gunjan Arora, Overseas Education	96					

		Resource Person No of										
S.No.	Name of event	Date of event	Resource Person with designation	No of Participants								
1	Workshop on Cloud Computing	10th September to 12th September 2022	Prof.Yogesh Jadhav, Amity University	88								
2	Recursion 3.0 Hackathon	21st April to 22nd April 2022	RGIT CESS AND RGIT CODECELL	20 Teams								
з	Webinar on Introduction to Flutter	13th February, 2022	Mr.Ryan D'Silva	83								
4	DSA Webinar	11th December, 2021	Ms.Kirti Gera	35								
5	Codertine 2.0 Coding Competition	13th November, 2021	RGIT CESS AND RGIT CODECELL	45								
6	Webinar on Cyber Security	28th September,2021	Mr.Shuvamoy Roy	88								
7	Awaken the Entrepreneur in You	2nd September, 2021	Mr.Niket Sarvaiya	84								
8	Webinar on Cyber Security	28th August, 2021	Mr.Saikumar M	84								
9	Al Probably Education Workshop	22nd August, 2021	Mr.Parth Sharma	80								
10	Introduction to Forex Currency and Trading	31°l January, 2021	Ms.Harshita and Mr.Nivesh	92								

AY- 2020-2021								
S.No.	Name of event	Date of event	Resource Person with designation	No of Participants				
1	Microsoft Webinar	8th May, 2021	Mr.Amit Patil, Microsoft Team	80				
2	Wordpress Workshop	1st May, 2021	RGIT CESS AND RGIT CODECELL	84				
3	Cloud Computing Workshop	31st March,2021 to 02nd April,2021	Mr.Yogesh Jadhav	92				
4	Recursion 2.0 Hackathon	20th and 21st March, 2021	RGIT CESS AND RGIT CODECELL	54 Teams				
5	GRE Webinar	12th February,2021	Mr.Ajit Singh, Endeavour Classes	85				
6	GRE Webinar	11th February,2021	Mr.Alok Bansal, Endeavour Classes	80				
7	Data Science Webinar	6th February, 20221	Mr.Amit Naik and Mr.Sukamal Das	83				
8	Webinar on Development of Recommendation Engine using Python	25 th January, 2021	Mr.Parth Sharma	84				
9	Codertine 2.0 Coding Competition	31st October, 2020	RGIT CESS AND RGIT CODECELL	80				
10	Career Counseling	11th October, 2020	Mr.Pankaj Mehta and Mr.Manoj Kansara	80				
11	Master of Business Administration Vebinar	10th October, 2020	Mr.Gejo Sreenivasan	83				
12	Student Guide to Approach Capstone Project	2nd October,2020	Mr.Deepanshu Sonparote and Mr.Ayush Singh	77				
13	Crack GRE Webinar	09th September and 17th September 2020	Mr.Saezal Shah and Mr.Alok Bansal	76				

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

4.6.2 Publication of Technical Magazines, Newsletter

Year	Month of Publication	Volume	Name of Newsletter	Name of Editor	Name of Reviewer
	Sept'2022	28	T.U.R.I.N.G	Shanmukh Bhutada	1) Prof.Suresh Mestry
					2)C.A.Aakansha
	March'2022	2022 27 T.U.R.I.N.G C.A. Aaka		C .A. Aakansha	1)Prof.Dilip Kale
	Waldi 2022	21	1.0.11.11.0	O .A. Adkalisila	2) Vijay Shivaji Tembugade
2022	January'2022	26	T.U.R.I.N.G	Pranali Khupse	1) Prof.Dilip Kale
	January 2022	20	1.0.11.11.0	Tranaii Kiiupse	2) Advait Krishnakumar
	August'2021	25	T.U.R.I.N.G	C .A. Aakansha	1) Prof.Dilip Kale
2021	August 2021	25	1.0.13.1.10.0	C .A. Aakalisila	2) Vijay Shivaji Tembugade
	September'2020	24	T.U.R.I.N.G	Vijay Shivaji Tembugade	
	August'2020	23	T.U.R.I.N.G	Advait Krishnakumar	
2020	February'2020	22	T.U.R.I.N.G	Vijay Shivaji Tembugade	

 $\textbf{4.6.3 Participation in inter-institute events by students of the program of study} \ (10)$

Institute Marks: 10.00

Institute Marks: 5.00

			ACADEMIC YEAR-20 COURSES	22-23		
Sr.No	Student Name	Class	Course Name	Organization Name and Date	National/ International	
1	Dolas keche	TE	Full stack web development (course)	Online(Udemy) 19 july 2023	National	
2	Namrata Mahesh Yeola	BE	Full stack web development bootcamp	Online, 23rd-29th june,2023	National	
3	Shubham Shinde	BE	Social Winter of Code	Remote 01/01/2023 to 31/03/2023	National	
4	Suraksha Patil	BE	Master The Java Programming Language	Online by Udemy	National	
5	Soham Dattaram Saindre	TE	Data Science	Academor	International	
6	Aditya Shrivastav	TE	Introduction to Database Design with MYSQL	Upgrad	National	
7	Yash Suresh Zagade	TE	Cyber Security	Academor	International	
	•		E	VENTS		
Sr.No	Student Name	Class	Event name	Place and Date	Prize/Appreciation	National/ International
1	Akshay Shukla	BE	Sustainability Hackathon'2	Online Hackathon from 27 Jan to 30 Jan 2023	1st Runner-Up In Sustainability Hackathon'2 Organized by Cisco + NASSCOMM	National
2	Mane Akash Ganesh	TE	Data Science Orientation by IBM	Mumbai, 21 July 2023	Appreciation	National
3	Sarang Gajare	TE	Algorithm 7.0 Hackathon	Anjuman-I-Islam's Klasekar College, Algorithm 7.0 Hackathon	Participation	National
4	Dolas keche	TE	Full stack web development (course)	Online(Udemy) 19 july 2023	Completition Certificate	National
5	Akshar Mehta	BE	SIH HACKATHON	Chennai,India	OneLakh Rupees	National
6	Karan Parmar	BE	SIH HACKATHON	Chennai,India	OneLakh Rupees	National
7	Neeshita Gole	BE	SIH HACKATHON	Chennai,India	OneLakh Rupees	National
8	Dharmaraj Dayanand Rathod	BE	SIH HACKATHON	AUGUST 25-26 CHENNAI	PARTICIPANT OF GRAND FINALE OF SIH HACKATHON	National

	ACADEMIC YEAR-2022-23 CONFERENCES									
Sr.No	Student Name	Class	Event name	Place and Date	Prize/Appreciation	National/ Internationa				
1	Sakshi Vilas Khair	BE	1st International Conference on Recent Trends in Multidisciplinary Research and Innovation	Lokmanya Tilak College of Engineering, Navi Mumbai - 18/03/2023	Appreciation	National				
2	Vanshita Lavange	BE	ICRMIR-23	Lokmanya Tilak College of Engineering, 18/03/2023	appreciation	National				
3	Bandgar Mamta	BE	1st International Conference on Recent Trends in Multidisciplinary Research and Innovation	Lokmanya Tilak College of Engineering, 18th March 2023	Appreciation	National				
4	Hinal Manoj kumar Jethava	BE	ICICN-2023 Multicon	Thakur college of engineering and technology ,25th February 2023	Appreciation	National				
5	Shruti Halde	BE	ICICN-2023 Multicon	Thakur college of engineering and technology ,25th February 2023	Appreciation	National				
6	Rhea Indurkar	BE	Multicon Paper publication	Thakur college of engineering and technology ,25th February 2023	Appreciation	National				
7	Yogita Chaudhary	BE	International Conference on Science and Technology Engineering and mathematics for sustainable development for design and Implementation of cyber tip off system	Atharva College of Engineering,Malad(W), Mumbai	Best Paper	National				
8	Aniket Chauhan	BE	International Conference on Science and Technology Engineering and mathematics for sustainable development for design and Implementation of cyber tip off system	Atharva College of Engineering,Malad(W), Mumbai	Best Paper	National				
9	Divyanka Gharat	BE	International Conference on Science and Technology Engineering and mathematics for sustainable development for design and Implementation of cyber tip off system	Atharva College of Engineering,Malad(W), Mumbai	Best Paper	National				

	ACADEMIC YEAR-2021-22									
	COURSES									
Sr.No	Student Name	Class	Event name	Place and Date	Prize/Appreciation (prize like 1st place/Appreciation)	National/ International				
1	Aditya Shrivastav	SE	Recursion 3.0	21-22 April 2022	Certificate of appreciation	National				
2	Aaditi Mali	TE	HTML Bootcamp	18-20 Feb 2022	Certificate of completion	National				
3	Labhesh Mahajan	BE	Ideathon	Kolkata, March 2022	2nd place , appreciation	National				
4	C A Akansha	BE	Exemplary technical writer	Geeksfoe geeks,2022	Recognition certificate	International				
5	Rhea Indurkar	TE	Introduction to Programming with Python - Revised	Alison ,2022	Learner Achievement	International				

	ACADEMIC YEAR-2020-21									
	Events									
Sr.No	ir.No Student Name Class Event name Place and Date Prize/Appreciation (prize like 1st place/Appreciation)									
1	Naitik Jain	TE	Code War in collaboration with CodeXpress 4.0	St, Francis Institute of Technology on 25-03-21	11th rank and scoring 280/400	National				
2	Shruti Halde	SE	Data Science with machine Learning and Python	TCR Innovation, Navi Mumbai	Completion certificate	National				
3	Aditya Dhaware	TE	Techfest-2021	IIT, Bombay	Certificate of Excellence	National				
4	Harsh Gandhi	TE	Techfest-2021	IIT, Bombay	Certificate of Excellence	National				

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)	Total Marks 146.20

Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Initial Date of Joining	Association Type	/ \ I
Prof. Sunil P Khachane	ACGPK7754D	M.E/M.Tech	20/09/2000	COMPUTER ENGINEERING	2			Assistant Professor		05/06/1995	Regular	,
Dr. Satish Y Ket	AAKPK4746R	ME/M. Tech and PhD	23/11/2012	Adhoc Networks	1	3		Professor	01/01/2013	06/08/2004	Regular	,
Prof. Dnyaneshwar P Kapse	AFAPK2139R	M.E/M.Tech	01/03/2006	INFORMATION TECHNOLOGY				Assistant Professor		11/07/1998	Regular	,
Prof. Dilip S. Kale	ADMPK3608B	M.E/M.Tech	18/08/2006	COMPUTER ENGINEERING				Assistant Professor		20/06/1996	Regular	,
Prof. Dilip M. Dalgade	AGSPD9614P	M.E/M.Tech	25/08/2008	INFORMATION TECHNOLOGY				Assistant Professor		16/09/2002	Regular	,
Dr. Sharmila N. Rathod	AHVPG4250C	ME/M. Tech and PhD	10/10/2015	COMPUTER ENGINEERING	5			Associate Professor	01/03/2021	21/07/2003	Regular	,
Prof. Savita V. Lade	ACBPL5752D	M.E/M.Tech	23/10/2012	COMPUTER ENGINEERING				Assistant Professor		28/06/2004	Regular	,
Prof. Bhavesh N. Panchal	ALTPP1863A	M.E/M.Tech	14/05/2014	COMPUTER ENGINEERING				Assistant Professor		01/12/2007	Regular	,
Prof. Preeti S. Satao	AULPS9670D	M.E/M.Tech	14/08/2012	COMPUTER ENGINEERING				Assistant Professor		08/01/2008	Regular	1
Prof. Priya P. Parate	APQPP7818A	M.E/M.Tech	09/09/2008	COMPUTER ENGINEERING	1			Assistant Professor		01/01/2008	Regular	,
Prof. Bhushan M. Patil	AGQPP3105M	M.E/M.Tech	24/07/2007	COMPUTER ENGINEERING	1			Assistant Professor		01/01/2010	Regular	,
Prof. Kaajal G. Sharma	BKQPS3135K	M.E/M.Tech	29/08/2008	COMPUTER ENGINEERING				Assistant Professor		01/01/2010	Regular	,
Prof. Suresh R Mestry	APFPM4771A	M.E/M.Tech	24/01/2015	COMPUTER ENGINEERING				Assistant Professor		11/07/2007	Regular	,
Prof. Dipak D. Gaikar	APZPG7894N	M.E/M.Tech	15/06/2015	INFORMATION TECHNOLOGY				Assistant Professor		28/07/2008	Regular	,
Prof. Priyanka L. Bhilare	BACPB7209M	M.E/M.Tech	04/12/2014	COMPUTER ENGINEERING				Assistant Professor		20/07/2007	Regular	,
Prof. Sumitra Sadhukhan	BTWPS1501A	M.E/M.Tech	19/05/2008	INFORMATION TECHNOLOGY	2			Assistant Professor		04/07/2011	Regular	,
Prof. Naina Kaushik	AERPN5347L	M.E/M.Tech	24/11/2005	COMPUTER SCIENCE				Assistant Professor		04/07/2011	Regular	,
PROF. Kausar Attar	AVUPA5957H	M.E/M.Tech	23/08/2016	COMPUTER ENGINEERING				Assistant Professor		01/03/2022	Regular	1
Prof. Shivani Kuduple	MHCPK7309D	M.E/M.Tech	30/09/2021	COMPUTER ENGINEERING				Assistant Professor		23/01/2023	Regular	,
Prof. Sowmyashree	DSDPS2614N	M.E/M.Tech	30/06/2015	COMPUTER ENGINEERING				Assistant Professor		21/03/2022	Regular	1
Dr. Shikha Gupta	ASLPG3774C	ME/M. Tech and PhD	10/09/2020	COMPUTER ENGINEERING				Associate Professor	01/02/2023	01/02/2023	Regular	,
Dr. Manoj Patil	ANBPP6139B	ME/M. Tech and PhD	05/08/2022	COMPUTER ENGINEERING	2			Associate Professor	09/02/2023	09/02/2023	Regular	,
Prof. Radha Nabar	DACPS2482B	M.E/M.Tech	15/06/2015	COMPUTER ENGINEERING				Assistant Professor		01/03/2022	Regular	1
Prof. Shreeya Palkar	ECXPP0423F	M.E/M.Tech	25/11/2021	COMPUTER ENGINEERING				Assistant Professor		01/12/2021	Regular	1
Prof. Jignesh Patil	DUCPP1945Q	M.E/M.Tech	1/05/2023	COMPUTER ENGINEERING	1			Assistant Professor		01/08/2023	Regular	,

Prof.		AJBPN7885Q	M.E/M.Tech	22/11/2016	COMPUTER ENGINEERING			Assistant Professor		05/01/2023	Regular	1
Dr. Jy Desh	yoti A. nmukh	AINPD0287H	ME/M. Tech and PhD	22/11/2018	IMAGE PROCESSING	1	2	Associate Professor	01/12/2020	18/07/2007	Regular	,
Prof. Sharr	Taruna ma	BXAPS5096L	M.E/M.Tech	20/08/2009	COMPUTER ENGINEERING			Assistant Professor		20/03/2023	Regular	1

5.1 Student-Faculty Ratio (20)

Total Marks 12.00

Institute Marks: 12.00

UG

No. of UG Programs in the Department 1

	COMPUTER ENGIEERING												
	CAY					CAYm1		CAYm2 (2021-22)					
Year of			(2023-24)		(2022-23)								
Study	Sanction Intake		Actual admitted through lateral entry students		Sanction Actual admitted through la entry students		1	Sanction Actual admitted through lateral Intake entry students					
2nd Year	120 12		120		12	12	0	12					
3rd Year	120		12	120		12	12	0	12				
4th Year	120		12	120		12	12	0	12				
Sub-Total	360	360 36		360		36		360 36					
Total	396		396	396		39	396						
Grand Total 396			396			396							

PG

No. of PG Programs in the Department 1

Computer Network & Information Security										
Year of Study		CAY(2023-24) Sanction Intake			CAYm1(2022-23)	CAYm2 (2021-22)				
					Sanction Intake	Sanction Intake				
1st Year 9		9			9	9				
2nd Year		9			9	18				
Total		18			18	27				
Grand Total	18			18		27				

SFR

No. of UG Programs in the Department 1

No. of PG Programs in the Department 1

Description	CAY(2023-24)		CAYm1 (2022-23)		CAYm2 (2021-22)			
Total No. of Students in the Department(S)	414 (UG+PG) students	Sum total of all	414 (UG+PG) students	Sum total of all	423 (UG+PG) students	Sum total of all		
No. of Faculty in the Department(F)	21	F1	19	F2	19	F3		
Student Faculty Ratio(SFR)	19.71	SFR1=S1/F1	21.79	SFR2=S2/F2	22.26	SFR3=S3/F3		
Average SFR	21.25	SFR=(SFR1+SFR	2+SFR3)/3					
F=Total Number of Faculty Members in the Department (excluding first year faculty)								

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

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

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

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY(2023-24)	21	0
CAYm1(2022-23)	19	0
CAYm2(2021-22)	19	0

Average SFR for three assessment years: 21.25

Assessment SFR: 12

5.2 Faculty Cadre Proportion (25)

Total Marks 17.00

Institute Marks: 17.00

Year	Profess	ors	Associate Pro	ofessors	Assistant Professors	
rear	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2023-24)	2.00	1.00	4.00	4.00	13.00	16.00
CAYm1(2022-23)	2.00	1.00	4.00	2.00	13.00	16.00
CAYm2(2021-22)	2.00	1.00	4.00	2.00	14.00	16.00
Average Numbers	2.00	1.00	4.00	2.67	13.33	16.00

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 : 17.00

5.3 Faculty Qualification (25)

Total Marks 12.40

Institute Marks: 12.40

	x	Y	F	FQ = 2.5 x [(10X + 4Y) / F)]
2023-24(CAY)	5	16	20.00	14.25
2022-23(CAYm1)	3	16	20.00	11.75
2021-22(CAYm2)	3	16	21.00	11.19

Average Assessment: 12.40

5.4 Faculty Retention (25)

Total Marks 25.00

Institute Marks : 25.00

Description	2022-23	2023-24
No of Faculty Retained	18	17
Total No of Faculty	19	19
% of Faculty Retained	95	89

Average: 92.00

Assessment Marks: 25.00

5.5 Innovations by the Faculty in Teaching and Learning (20)

Total Marks 20.00

Institute Marks: 20.00

Innovation in the teaching-learning process refers to the introduction of new and creative approaches, methods, and technologies to enhance the effectiveness and efficiency of the educational process. It involves adopting novel ways of designing and delivering instruction to facilitate better understanding, engagement, and retention of knowledge among students. By adopting innovative strategies, educators can enhance the quality of education, improve student outcomes, and prepare students for the challenges in this new era. An innovative teaching and learning process is required for students to understand the curriculum. This helps in bridging the gap between the curriculum and the Industry.

We follow these steps while deciding on the Innovation in Teaching Learning Process in RGIT



In RGIT, the following methods are adopted in Innovation in teaching-learning methods are adopted by RGIT process

- · ICT Classroom
- · Flipped Classroom
- · Project Based Learning
- Use of Open Education Resources
- Virtual Labs
- · Industrial Visits
- · Hands-on Training

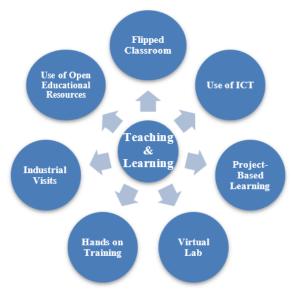


Fig. 1: Various Teaching Learning Process

1. Use of ICT:

Idea:

To provide interactive learning experiences, stimulates and motivates students to learn.

Implementation:

Faculty integrated educational apps or websites and create interactive assignments. Some of faculty members created their own YouTube channels.

Outcome

ICT provides comfortable learning. ICT aids in the understanding of difficult concepts and processes.

2. Flipped Classroom:

Idea:

To familiarize students with the new information and prepare for in-class activities with the teacher and peers, ahead of time.

Implementation:

The flipped classroom approach is reserved for revisiting the topic while the teacher actively engages with the students through group discussions, collaborative coursework, and assessments.

Outcome

Helps improve students' engagement and communication between the teacher and students as well as their peers. It provides the students with the opportunity to learn at their own pace.

3. Project-Based Learning:

Idea:

Project-based learning involves students working on real-world projects or authentic tasks that require them to apply knowledge and skills in meaningful and relevant ways.

Implementation:

Incorporating appropriate instruction and guidance to the students to do small projects in industry based /research based learning skills and content, thinking critically and solving problems in a group.

Outcome:

Fosters critical thinking, problem-solving, and creativity, and promotes collaboration and communication skills.

4. Virtual Labs:

Idea:

Create immersive and interactive learning experiences that go beyond traditional classroom settings.

Implementation:

During Covid or post-covid, engaging students in virtual field trips, simulations, and hands on learning, making complex concepts with more accessible.

Outcome:

Improved students' conceptual understanding, laboratory or practical skills, and motivation and attitudes towards practical approach.

5. Use of Open Educational Resources:

Open Educational Resources are freely available learning materials that can be accessed, shared, and adapted by teachers and students. They include textbooks, videos, simulations, and other digital resources that can enhance the quality and accessibility of education, and promote collaboration and innovation in the learning process.

6. Industrial Visits:

Idea:

To give exposure to the students about the practical environment with theoretical learning.

Implementation:

Industrial Visits are systematic and well planned or organised by the department for few subjects of program.

Outcome:

Students will get to know the working environment in the industries, their processing, how machines are working, interact with the experts.

7. Hands on Training / Technical Events:

Idea:

To engage students, develop skills, and apply knowledge to real-world situations.

Implementation:

Department / Students' Professional bodies or clubs are organizing technical events that are related to upgrading the knowledge of students. The department is planned systematically for the gradual growth of students.

Outcome:

Flexibility and adaptability are increased.

Leverage essential learning skills and processes.

Implementation and Effectiveness

Sr No		Name of Subject	Type of Innovation	Details	Outcome
1	Dr. Shikha Gupta	Digital Signal and Image Processing	Video	https://youtu.be/UeU7hGFAltI?si=7n (https://youtu.be/UeU7hGFAltI?si=7n)PMKiSOLodVICFK	easier to understand and retain information.
2	Sumitra	Analysis of Algorithm	Recorded	https://drive.google.com/drive/u/2/folders/ (https://drive.google.com/drive/u/2/folders/)1eD9ZDzOkxosZXcEhBHh8DsDtwuwbykKf	students review the material covered in class at a later time,
3	Dr. Shramila Gaikwad	Project	YouTube Video	https://studio.youtube.com/channel/UC1aJi0UN-wnscob4uQi8fxQ/videos/upload?filter=%5B%5D&sort (https://studio.youtube.com/channel/UC1aJi0UN-wnscob4uQi8fxQ/videos/upload? filter=%5B%5D&sort)=%7B%22columnTvpe%22%3A%22date%22%2C%22sortOrder%22%3A%22DESCENDING%22%7D	Life long learning and Understanig ethics
4	Dr. Manoj Patil	DLCA	Online Recorded lecture	https://drive.google.com/drive/folders/1Kh6e (https://drive.google.com/drive/folders/1Kh6e)TLjtSW7r9M6LAPVnY9nz9k476cdy?usp=drive_link	allow students to study at their own time

5	Prof. Priyanka Bhilare		Recorded	https://drive.google.com/file/d/18unY-J8un4RGzLHBC11l8N0kFYS9rG0p/view?usp (https://drive.google.com/file/d/18unY- J8un4RGzLHBC11l8N0kFYS9rG0p/view?usp)=drive_link	review the material more than once
6	Dr. Jyoti Deshmukh	Signal and Image	Recorded	https://drive.google.com/drive/my-drive?q=type:video%20parent:0AOHR3c (https://drive.google.com/drive/my-drive?q=type:video%20parent:0AOHR3c) BioOPMUk9PVA	understand the topic- Sampling of the signal and reconstructior of the original signal
7	'	Data Structure	Virtual Lab	https://www.vlab.co.in/broad-area-computer-science-and-engineering (https://www.vlab.co.in/broad-area-computer-science-and-engineering) https://www.cs.usfca.edu/~galles/visualization/Algorithms.html	the best progressive learning and performance in practical's
8	Dr. Shikha Gupta	DLCA	Virtual Lab	http://vlabs.iitkgp.ernet.in/coa/#	performed better in real laboratory

5.6 Faculty as participants in Faculty development/training activities/STTPs (15)

Total Marks 9.80

Institute Marks: 9.80

	Max 5 Per Faculty		
Name of the faculty	2022-23 (CAYm1)	2021-22 (CAYm2)	2020-21 (CAYm3)
Prof. Sunil Khachane	0.00	2.00	1.00
Dr. Satish Y Ket	0.00	1.00	1.00
Prof. D P Kapse	0.00	2.00	1.00
Prof. Dilip Kale	1.00	4.00	1.00
Prof. Dilip Dalgade	2.00	5.00	3.00
Dr. Sharmila S. Gaikwad	4.00	5.00	1.00
Prof. Savita Lade	0.00	3.00	2.00
Prof. Bhavesh Panchal	1.00	5.00	3.00
Dr. Jyoti A Deshmukh	1.00	2.00	1.00
Prof. Priya Parate	0.00	2.00	1.00
Prof. Preeti Satao	0.00	1.00	1.00
Prof. Bhushan M. Patil	0.00	3.00	1.00
Prof. Kaajal Sharma	3.00	4.00	3.00
Prof. Suresh R Mestry	0.00	3.00	1.00
Prof. Dipak D Gaikar	1.00	3.00	2.00
Prof. Priyanka Bhilare	0.00	3.00	1.00
Prof. Sumitra Sadhukhan	0.00	3.00	1.00
Prof. Naina Kaushik	0.00	3.00	1.00
Prof. Kausar Attar	2.00	1.00	0.00
Prof. Radha Nabar	0.00	1.00	0.00
Prof. Sowmyasharee	0.00	2.00	0.00
Prof. Shivani Kudpale	1.00	0.00	0.00
Dr. Shika Gupta	2.00	0.00	0.00
Sum	18.00	58.00	26.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	20.70	20.70	21.15
Assessment [3*(Sum / 0.5RF)]	5.22	16.81	7.38

Average assessment over 3 years: 9.80

5.7 Research and Development (30)

Total Marks 20.00

5/16/24, 12:01 PM

5.7.1 Academic Research (10) Institute Marks: 10.00

Print

1. Academic Research

Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

 $a.\ Number\ of\ quality\ publications\ in\ refereed/SCI\ Journals/\ Books\ /\ Book\ Chapters\ etc.$

Sr. No.	Name of Faculty	CAY (2022-23)	CAY (2021-22)	CAY (2020-21)
1	Prof. Sunil Khachane	1	1	-
2	Dr. Satish Y Ket	1	-	-
3	Dr. Sharmila Gaikwad	1	3	1
4	Dr. Jyoti A Deshmukh	1	-	-
5	Prof. Bhushan Patil	1	-	-
6	Prof. Sumitra Sadhukhan	1	-	1
7	Dr. Manoj Patil	2	-	-
8	Prof. Priya Parate	1	-	-
9	Prof. Jignaesh Patil	1	-	-

Citation Details:

Sr. No.	Name of Faculty	CAY (2022-23)	CAY (2021-22)	CAY (2020-21)
1	Prof. Sunil Khachane	1	-	-
2	Dr. Satish Y Ket	16	6	1
3	Prof. Dilip S. Kale	-	-	2
4	Prof. Dilip Dalgade	46	27	23
5	Dr. Sharmila Gaikwad	14	29	18
6	Prof. Savita Vijay Lade	2	5	1
7	Prof. Bhavesh Panchal	-	1	-
8	Dr. Jyoti A Deshmukh	5	27	14
9	Prof. Priya Parate	1	3	1
10	Prof. Bhushan Patil	-	-	-
11	Prof. Deepak Gaikar	16	19	20
12	Prof. Sumitra Sadhukhan	3	5	5
13	Prof. Suresh R Mestry	1	7	3
14	Prof. Naina Kaushik	7	4	1
15	Dr. Shikha Gupta	7	_	_

Patents:

Sr. No	Name of Faculty	Title of the patent	Indian/ Other	Date of filing of patent	Application No	Present status
1	Dr. Jyoti Deshmukh	A Two-Tier Optimised Video Summarisation System	German	14/04/2022	202022100819	Published

2	Dr. Sharmila Gaikwad	A Hybrid Optimization Derive Extreme Learning Machine (ELM)for Enhancing	Australian	20/04/2022	2021107084	Published
3	Dr. Sharmila Gaikwad	Modified Optimization Model for Improving Extreme Machine for Data Classification	Indian	31/03/2023	L-122628/2023	Registered
4	Prof. Dilip Dalgade	Unassailable Authorization Multi User Access System Using Biometrics	Indian	16/07/2021	20121026105A	Published

$b. \ \textbf{Ph.D.} \ \textbf{guided} \ \textbf{/Ph.D.} \ \textbf{awarded} \ \textbf{during} \ \textbf{the} \ \textbf{assessment} \ \textbf{period} \ \textbf{while} \ \textbf{working} \ \textbf{in} \ \textbf{the} \ \textbf{institute}.$

Sr. No.	Name of Faculty	Names of Scholars	Ph.D. awarded
		1. Mrs. Bankar Sonal	
1	Dr. Satish Y Ket	2. Mrs. Deorukhkar Kalpana	Nil
		3. Mr. Bhushan Patil	
		1. Mr. Ankush Hutke	
•	Dr. Jyoti Deshmukh	2. Mr. Jayendra Jadhav	Nil
2			

5.7.2 Sponsored Research (5) Institute Marks: 0.00

2022-23 (CAYm1)

Project Title	Duration	Funding Agency	Amount
0	0	0	0.00
			Total Amount(X): 0.00

2021-22 (CAYm2)

Project Title	Duration	Funding Agency	Amount
0	0	0	0.00
			Total Amount(Y): 0.00

2020-21 (CAYm3)

Project Title	Duration	Funding Agency	Amount
0	0	0	0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 0.00 5.7.3 Development Activities (10)

Development activities (10)

· Research laboratories

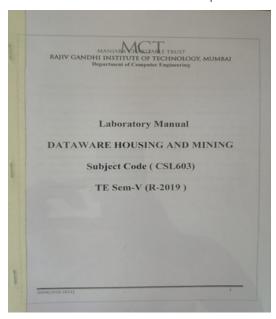
This lab provides a place where the Ph. D scholars can work as individuals. Laboratory equipped with all facilities required like advanced software and high performance i5 PCs with internet connection.

Lab Name	Lab No.	System Configuration	Interactive Board
Research and Development Lab	A-33	DDR3 RAM NVIDIA	Interactive Board 82" Plug and Play Ultrathin Design with touch

· Instructional materials

The department encourages self-learning and skill development of students. Along with that department ensures no hurdles should come in students' way and thus provides properly designed required instructional material like:

- · Lab manuals for each laboratory.
- Tutorials for periodic assessment and practice.
- · Theory notes wherever required to channelize the students' vision towards the course structure and the required skill set/efforts.

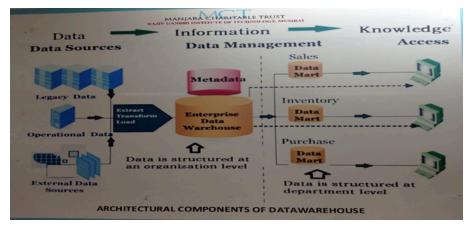


Lab Manual

• Working models/charts/monograms etc.

Elaborative and attractive charts have been placed in each laboratory of the department to make students aware of the study as well as experimental work that can be carried out in the laboratory.

Along with that the charts are being made attractive for students mostly demonstrating practical or practical applications of various software that are available.



Attractive Chart in Labs

5.7.4 Consultancy(from Industry) (5)

Institute Marks: 0.00

2022-23 (CAYm1)

Project Title	Duration	Funding Agency	Amount
0	0	0	0.00
			Total Amount(X): 0.00

2021-22 (CAYm2)

Project Title	Duration	Funding Agency	Amount
0	0	0	0.00
			Total Amount(Y): 0.00

2020-21 (CAYm3)

Project Title	Duration	Funding Agency	Amount
0	0	0	0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 0.00

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

Total Marks 30.00

Institute Marks: 30.00

1. Faculty Performance Appraisal

Following the Institutes Annual Self-Appraisal policies, the faculty members are required to submit Self Appraisals to the administration as per schedule given in the Academic Calender.

Appraisal Format:

- 1. Annual Self Appraisals (Assessment Year) Institute Formant
- 2. Performance Based Self-Appraisal (PBAS) as per eligibility in assessment years University Format

Annual Self-Appraisal:

Faculty performs a variety of tasks in diverse roles. Faculty members actively contribute to conducting research activities. This keeps them, abreast with changes in the technologies and develops expertise in the field. Such an engagement of faculty helps in understanding the real-life problems in Industry and the development of curriculum.

Faculty members are shouldered with administrative responsibilities at the Institute as well as department. Annual self-appraisal plays a vital role in optimizing the contribution of faculty to Institutional performance.

Submission of Annual Self-Appraisal and Preliminary Assessment:

Submission dates are notified in the Academic Calendar. Standard formats designed by the Institute are provided. The appraisals are primarily self-assessed by the faculty himself/herself and followed by the assessment by the Head of Department with his / her specific remarks.

Self-Appraisals assessment by 02 External Experts:

Two external experts are then invited by the Institute to assess the appraisals submitted by the faculty.

Self-appraisal assessment by Principal jointly with Management Representatives and Grant of Increments:

The self-appraisals assessed by the external experts are further verified by the Principal jointly with the management representatives. Upon observations of satisfactory performance Annual Increments are granted.

Evaluation Scheme for Annual Self-Appraisals

	PART A – Academic Contributions					
Teaching Feedback	Administrative Contributions***					
(10)	(50)					(60)
	Institute Administration (10)	AICTE/DTE/UGC /UNIVERSITY (10)	Policy Development (10)	Accreditations (10)	Staff Development (10)	

	PART B- Research Contribution (40)***				
Publications (10) Proposals Submitted (05) Grants Received (10) Page 100		Patent filed (05)	Patents Published (10)	Total (40)	

	PART C							
Outside World Interactions		Stake Holder Interactions				Innovations Brought		
Professional Bodies Association, Interaction and contribution to the Industry world (10)	Invited Talks Delivered (10)	RAC – Members (10)	Industry (10)	Parents (10)	Alumni (10)	Employers (10)	Others (10)	Exclusive Contribution (20)
Total (100) :								

2. Performance Based Appraisal Scheme (PBAS) Format:

Performance-Based Self-appraisal:(Format as per Circular from University of Mumbai CIRCULAR NO. CONCOL/TAU/ 40 of 2012-2013 dated 19th March, 2013)

The University of Mumbai apparels for enhancing the standards in education. These submissions are done as per the eligibility of faculty for promotions. Faculty members claiming eligible for promotions to upgraded designations or upper Annual Grade Pay are required to submit the PBAS in the prescribed format.

Screening & Evaluation of PBAS:

Committee constituted by the Institute as per the guidelines of CIRCULAR NO. CONCOL/TAU/ 40 of 2012-2013 having three Internal Senior Faculty takes up the Screening and Evaluation submitted by the faculty.

The selection committee constituted by the Institute as per the guidelines of CIRCULAR NO. CONCOL/TAU/ 40 of 2012-2013 having two to three External Experts complete the process of selection through expert evaluation and interviews.

Evaluation Scheme of PBAS as per the university guidelines

CATEGORY I: TEACHING, LEARNING AND EVALUATION RELATED ACTIVITIES

		Maximum Score			
Sr. No.	Nature of Activity	API Score	Score Marked	Verified API Score	
1.	Lectures, Seminars, Tutorials, Practical, Contact Hours (give semester-wise details, where necessary)	50			
2.	If teacher has taken classes exceeding University norm, then two point to be assigned for each extra hour of classes	10			
3.	Imparting of knowledge/instruction as per the curriculum with the prescribed material (Text book / Manual etc.) and methodology of the curriculum (Maximum score of 20 points if there is 100% compliance)	20			
4.	Use of Participatory and innovative teaching – learning methodologies updating of subject context, course improvement etc.	20			
5.	Examination Related Work	25			
	Total Score	125			

CATEGORY II: CO-CURRICULAR, EXTENSION AND PROFESSION DEVELOPMENT RELATED ACTIVITIES

		Maximum Score			
Sr. No.	Nature of Activity	API Score	Score Marked	Verified API Score	
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, advise and counselling.	20			
2.	Contribution to corporate life and Management of the department and Institution through participation in academic and administrative committees and responsibilities.	15			
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.	15			
	Total Score	50			

CATEGORY III: RESEARCH AND PUBLICATIONS AND ACADEMIC CONTRIBUTIONS

		Maximum Score			
Sr. No.	Nature of Activity	API Score	Score Marked	Verified API Score	
A.	RESEARCH PUBLICATION (JOURNALS)				
В.	RESEARCH PUBLICATIONS (BOOKS, CHAPTERS IN BOOKS OTHER THAN REFEREED JOURNAL ARTICLES)				
C.	RESEARCH PROJECT				
D.	RESEARCH GUIDANCE				
E.	TRAINING COURSES AND CONFERENCE /SEMINAR/WORKSHOP PAPERS				
	Total Score	50			

Screening and Evaluation Sheet

Sr. No.	Name of Faculty	Promotion Applied for	Score Teaching Learning Evaluation related activities (Category I	Score Co- curricular extension and profession- related activities (Category II)	Average Score- Category I and Category II	Score Research and Academic Contribution Category III	REMARK

Implementation and Effectiveness:

• Faculty members promoted under the Career Advancement Scheme

Sr. No.	Name of Faculty	Promoted to Next Level
1	Dr. Jyoti Deshmukh	Associate Professor
2	Dr. Sharmila Gaikwad	Associate Professor

• Faculty members sponsored for PhD (Enrolled at our Institute)

Sr. No.	Name of Faculty	Registration No.	Title of Research
1	Prof. Bhushan Patil	28/8-2-2022	An Efficient Resource Utilization in Multi- Could using Load Balancing Approach

Faculty members sponsored for PhD at other institutes

Sr. No.	Name of Faculty	Registration No.	College/University
1	Prof. Sumitra Sadhukhan	204388001	Indian Institute of Technology, Bombay
2	Prof. Dilip Dalgade	8703/2021-22	PAHER, UDAIPUR
2	Prof. Savita Lade	231105207056	SANDIP University, Nasik

• Financial aid for Conference/ Publications / Patent / NPTL

Sr. No.	Name of Faculty	Financial aid
1	Dr. Jyoti Deshmukh	Patent
2	Prof. Bhavesh Panchal	NPTL
3	Dr. Sharmila Gaikwad	NPTL

5.9	Visiting/	Adjunct/	Emeritus	Faculty	etc.	(10))
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Total Marks 0.00

Institute Marks: 0.00

6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 80.00

6.1 Adequate and well equipped laboratories, and technical manpower (30)

Total Marks 30.00

Institute Marks: 30.00

		Number of		Weekly utilization	Tech	nnical Manpo	wer	Support
Sr. No	Name of the Laboratory	students per set up(Batch Size)	Name of the Important Equipment	status(all the courses for which the lab is utilized)	Name of the Technical staff	-	tion	Qualification
1	Database Management System & Data Ware Housing & Mining Lab	20	Desktop- HP i-5 , 8 GB RAM, 512 GB SSD, Monitor & 24- ports D-Link switch (QTY-42)	60%	Mr. Ismail Patel	Laborat Assista	,	Diploma (Computer)
2	Research & Development Lab /Computer Network & Simulation Lab	20	Desktop i5 CPU. 8 GB RAM, 1 TB HDD, 19" LED Monitor, 24 Ports Switch (QTY-21)	80%	Mr. Mahendi Pachangan		•	Diploma(Comp Networking)
3	Internet & Software Engineering Lab	20	Desktop i5 . 8 GB RAM, 512 GB SSD, 19" LED , D-Link Switch Desktop-Dual core Procesor, 2 GB RAM, 265 GB HDD, D-Link 24 Port Switch (QTY-43)	50%	Mr. Pradeep Yadav	Laboratory Assistant		oma(Electronics) Diploma Electronics) "
4	Computer Graphics & Modeling Lab / Mobile Computing Lab	20	Desktop- HP i-5 Proce,8 GB RAM, 512GB SSD Monitor& Net.Switch Desktop Core 2 duo, 2 GB RAM, 350 GB HDD, Port Switch 24 (QTY- 29)	50%	Mrs. Manish Warade	a Laborat Assista	•	B.Sc., PGDCA
5	Open Source /Al Lab	20	HP DESKTOP-IRTRQOT Intel(R) Core(TM) i5-10500 CPU @ 3.10GHz 3.10 GHz Installed RAM 8.00 GB (7.78 GB usable) SSD-512 GB, Lenovo Core i3 Processor, 3.3 GHZ 4 GB DDR3 RAM 500 SSD Data (QTY-21)	50%	Mr. Avinash Bhisikar	Laborat Assista	•	Diploma IT
6	Project Lab/ Soft Computing Lab & Assembly Language Programming Lab	20	HP DESKTOP-IRTRQOT Intel(R) Core(TM) i5-10500 CPU @ 3.10GHz 3.10 GHz Installed RAM 8.00 GB (7.78 GB usable) SSD-512 GB (QTY-30)	50%	Mr. Avinash Bhisikar	n Laborat Assista	,	Diploma IT
7	Operating System Lab/ System Programming Lab	20	LENOVO DESKTOP E73 Desktop Intel Core i3 3.30.Ghz,4 GB RAM DDR3500 500 GB HDD,18.5" LED Monitor (QTY-35)	50%	Mrs. Sonu Sable	Laborat Assista	•	Diploma IT
8	Multimedia Applications Laboratory	20	Desktop- HP i-5 Proce,8 GB RAM, 512 GB SSD Monitor& Net.Switch(QTY- 23)	75%	Mrs. Sonu Sable	Laborat Assista	•	Diploma IT

6.2 Additional facilities created for improving the quality of learning experience in laboratories (25)

Total Marks 25.00

Institute Marks: 25.00

Sr. No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	ICT classroom	Projector	To enhance Teaching & Learning	By Students, faculties	All engineering subject domains	PO1,PO2, PO10, PO12 PSO1
2	Internet (80 Mbps)	Leased Line	To enhance Teaching & Learning	By Students, faculties and staff	Machine Learning, AI, Cloud Computing, Block Chain, Software Engg	PO1, PO5, PO9, PSO1, PSO2
3	Wi-Fi	300 Mbps	Skill Based: Cloud Computing Lab	By Students, faculties and staff	Cloud Computing	PO1, PO5, PO9, PSO1, PSO2
4	Server	"Intel Xeon Silver 4208 8C 85W 2.1GHz Processor for ST550 S/N : J007H019 ThinkSystem 16GB TruDDR4 2933MHz"	For online classes, workshops by MHRD, IITB, Industry experts etc	By Students, faculties	All engineering subject domains	PO1, PO9, PO10,PSO1
5	Virtual Lab	http://vlab.co.in/	To provide remote-access to IIT Labs for courses like Software Engineering, Computer Organizations and architecture	By students for R&D, Project and to perform experiments beyond curriculum	Software Engineering, DLCA, COA	PO1,PO2, PO3,PO4, PO5, PO12, PSO1, PSO2
6	Plagiarism software	Turnitin	promote academic integrity, improve student outcomes, improve students' academic writing.	UG students and research scholars	Mini projects and major projects	PO5, PO8, PSO1, PSO2

6.3 Laboratories: Maintenance and overall ambiance (10)

Total Marks 10.00

Institute Marks: 10.00

The Department is well equipped with laboratories to satisfy the curriculum of Mumbai University. Salient features regarding maintenance and ambience of laboratory facilities are as follows.

Laboratory Maintenance:

- 1. Notice board regarding Do's & Don'ts in each laboratory.
- 2. Well trained technical staffs are available for maintenance of computers and updating of software.
- 3. Maintenance of each lab is done frequently.
- 4. Department is having leased line of 80 Mbps and Wi-Fi facility (300 Mbps)
- 5. Department is having 1 KVA UPS, 240 VDC along with batteries are used as backup to support power failures
- 6. As per the requirements minor repairs are carried out by the lab instructors and Faculty members.
- 7. Major repairs are outsourced as per the institutional policy.
- 8. Student's login register is maintained in all laboratories.
- $9. \ Each \ laboratory \ maintains \ a \ stock \ register \ detailing \ the \ equipment \ history \ within \ it.$
- 10. Three teaching faculties and Lab instructors are incharge of the overall functioning /maintaining of all labs.
- 11. Open-source OS (Ubuntu/Red Hat/Fedora) and windows 10 Pro (license copy) is installed on all PCs.
- 12. First aid kit is available in both the wings.
- 13. Fire extinguishers are available in each wing.

Overall Ambiance

- 1. The building's structure is designed by professional architect. Architect has taken utmost care in providing academic ambience in all labs.
- 2. Department has well equipped laboratories to cater to all UG courses as per curriculum requirements.
- 3. For every lab enough windows are available for ventilation and natural light.
- 4. Lighting system is very effective, along with the natural light in every corner of the rooms.
- 5. Racks are available in each lab for students to place their belongings.
- 6. Each Lab is equipped with white board, computers, high speed Internet connectivity.
- 7. Laboratory manuals are prepared and are available in soft and hardcopy.
- 8. Laboratories access is to all students during office hours as per their need.
- 9. Project lab has been provided for the students to carry out their mini and major project work.
- 10. All laboratories are well furnished.
- 11. All the doors are sufficiently wide and available in adequate numbers, to evacuate people outside in case of emergency.
- 12. Every lab is assigned with a main faculty and a co faculty for effective functioning of labs.
- 13. Practical are conducted as per lab time table

6.4 Project laboratories (5) Total Marks 5.00

Institute Marks: 5.00

- The project laboratory has a key role in promoting practical and hands on learning throughout the program. It is mainly utilized for the Major Project and Mini Project Work. In Odd Semester: Project Work I & in Even Semester: Project Work II
- The laboratory is open for the students from 8.30 a.m. to 4.15 p.m. If the students are willing to work on their projects, even after the working hours they are allowed to work along with a faculty member / lab technician.
- Every laboratory integrates project making exercise. Open-source software is useful for the faculty and students for their research / project works.

Name of the Facilities

- Turbo C 3.2,
- Ubuntu Linux,
- Java SE Development Kit,
- My Eclipse, Net beans IDE 8.0
- · Apache Tomcat,
- MS SQL
- Network Simulator NS2
- · Cisco Packet Tracer
- Wireshark
- AWS Cloud9
- Python
- SciLab
- Internet

6.5 Safety measures in laboratories (10)

Total Marks 10.00
Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Database Management System & Data ware Housing and Mining Lab	Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. • First aid box and Fire Extinguishers are kept in most of the labs • Proper earthing to protect Electrical Equipment. • Well trained technical supporting staff always monitor the labs. • Damaged system/equipment are identified and serviced at the earliest. • Software(s) are updated regularly.
2	Research & Development Lab /Computer Network and Simulation Lab	Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. First aid box and Fire Extinguishers are kept in most of the labs Proper earthing to protect Electrical Equipment. Well trained technical supporting staff always monitor the labs. Damaged system/equipment are identified and serviced at the earliest. Software(s) are updated regularly.
3	Internet and software Engineering Lab	Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. First aid box and Fire Extinguishers are kept in most of the labs Proper earthing to protect Electrical Equipment. Well trained technical supporting staff always monitor the labs. Damaged system/equipment are identified and serviced at the earliest. Software(s) are updated regularly.
4	Computer Graphics & Modeling lab/ Mobile Computing Lab	Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. First aid box and Fire Extinguishers are kept in most of the labs Proper earthing to protect Electrical Equipment. Well trained technical supporting staff always monitor the labs. Damaged system/equipment are identified and serviced at the earliest. Software(s) are updated regularly.
5	Open-Source Lab/Al Lab	Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. First aid box and Fire Extinguishers are kept in most of the labs Proper earthing to protect Electrical Equipment. Well trained technical supporting staff always monitor the labs. Damaged system/equipment are identified and serviced at the earliest. Software(s) are updated regularly.
6	Project Lab / Soft Computing & Assembly Language Programming Lab	Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. First aid box and Fire Extinguishers are kept in most of the labs Proper earthing to protect Electrical Equipment. Well trained technical supporting staff always monitor the labs. Damaged system/equipment are identified and serviced at the earliest. Software(s) are updated regularly
7	Operating System & System Programming Lab	Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. First aid box and Fire Extinguishers are kept in most of the labs Proper earthing to protect Electrical Equipment. Well trained technical supporting staff always monitor the labs. Damaged system/equipment are identified and serviced at the earliest. Software(s) are updated regularly.
8	Multimedia Applications Laboratory	Specific Safety Rules like Do's and Don'ts are displayed and instructed for all students. • First aid box and Fire Extinguishers are kept in most of the labs • Proper earthing to protect Electrical Equipment. • Well trained technical supporting staff always monitor the labs. • Damaged system/equipment are identified and serviced at the earliest. • Software(s) are updated regularly.

7 CONTINUOUS IMPROVEMENT (50)

Total Marks 50.00

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

Total Marks 20.00

Institute Marks: 20.00

POs Attainment Levels and Actions for Improvement- (2022-23)

16/24, 12:01 PM			Print
POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Kno	wledge		
PO 1	2.03	1.87	Close to target level. 2. Need to focus on engineering concepts. 3. Need extra practice sessions.
1. Additional classes to b	e conducted to introduce computer	fundamental basics. 2. More classe	es to be conducted to solve complex concepts of mathematics.
PO 2 : Problem Analysi	s		
PO 2	1.70	1.63	Close to target level. 2. Need to focus on engineering concepts. 3. Need extra practice sessions on problem analysis.
	ren in the assignments for practice a encouraged to participate in various	-	ularly. 2. Students are encouraged to raise questions which are solved in the
PO 3 : Design/developn	nent of Solutions		
PO 3	1.43	1.42	Target moderately achieved 2. Need to focus on design/development concepts. 3. Need extra practice sessions on problem analysis.
To enhance students to problems different case s	•	ars and webinars are conducted. 2.	Practical approach of teaching to be adapted. 3. To understand engineering
PO 4 : Conduct Investig	gations of Complex Problems		
PO 4	1.74	1.70	Target moderately achieved. 2. Need extra practice sessions on problem analysis.
	nd logic-based problems are given t project competitions like Recursion		ne 2.0 on Data Science for problem analysis. 3. To encourage research and
PO 5 : Modern Tool Usa	nge		
PO 5	1.52	1.51	Target moderately achieved 2. Need to be aware of the latest modern tools.
			ing, flutter etc.) 2. Students are given the freedom to identify the problems an inducted webinars and seminars on DSA and cyber security.
PO 6 : The Engineer and	d Society		
PO 6	2.21	2.03	Efforts needed to improve. 2. Need to be aware of the society and the engineer.
	res are offered to support engineerir reness program on societal issues.	ng practice to society at large. 2. Stu	udent projects to address societal issues are encouraged and carried out. 3.
PO 7 : Environment and	d Sustainability		
PO 7	1.39	1.39	Target Level attained.
Student projects addre	ess to societal and environmental is:	sues are encouraged.	
PO 8 : Ethics			
PO 8	1.81	1.79	1. Target moderately achieved 2. Need to focus on Ethics.
references and citations	_		importance of the same. 2. Students are encouraged to give appropriate oftware like Turnitin to prepare their project reports and technical papers 4.
PO 9 : Individual and Te	eam Work		
PO 9	2.18	2.09	Efforts needed to improve. 2. Need to work on team management. 3. Practice required to improve team work.
under various forums. 3.		and guest lectures. 4. Students are	e evaluation. 2. Students conduct different departmental activities for them motivated to be involved as volunteers/participants in Tech Fest, National level teams.
PO 10 : Communication		soming or readership and working in	Country.
PO 10 : Communication	2.04	1.81	Efforts needed to improve. 2. Need to work on group discussions. 3. Practice required to improve the communication techniques.
	oarted to students to enhance variou		hnical talks through group discussion, presentation, and new learning
PO 11 : Project Manage		c a. 5 on ocaragoa to participate III u	
PO 11 : Project Manage	1.39	1.38	Target moderately achieved 2. Need to focus on project management concepts. 3. Need extra practice sessions on project management.
PO 11	1.39	1.38	concepts. 3. Need extra practice sessions on project manage

1. Students are advised to understand the importance of project management while executing their academic project work. 2. Students are appointed for different forums of department, based on their management and technical competencies. 3. Students need to understand and apply financial knowledge while executing forum activities.

PO 12: Life-long Learning

PO 12

1.39

1.37

1. Target moderately achieved 2. Need extra practice sessions on problem analysis. 3. Opportunity to perform.

1. Students are encouraged to work on upcoming technologies in the technical world through internships. 2. Students participate in COURSERA/NPTEL etc. online courses.

3. Seminars/Webinars are conducted for upgradation of student technical skill.

1.59

PSO₁

PSOs Attainment Levels and Actions for Improvement- (2022-23)

PSOs	Target Level	Attainment Level	Observations				
PSO 1 : An ability to apply the knowledge of computer engineering in the multidisciplinary fields and make IT enabled.							

1. Implemented a process for project work execution, carried out by students. 2. Conducted different seminars/webinars/workshops to enhance student's technical skills. 3. To get the multidisciplinary knowledge, encourage students to opt for different elective subjects.

Target Level attained.

PSO 2 : An ability to solve complex computer engineering problems using latest technical tools with analytical skills for achieving optimized solutions to encourage research.

1.59

PSO 2 2.08	1.99	Efforts needed to improve. 2. Need to work on analytical skills. 3. Practice required to solve complex computer engineering problems.
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^{1.} Provide a technical platform for student to develop their technical skill. 2. Conducted project competitions like Recursion to solve complex engineering problems. 3. Conducted seminar/workshop/webinar to get knowledge of different technical tools. 4. Encouraged students to participate in the Smart India Hackathon to develop their analytical skill.

7.2 Academic Audit and actions taken thereof during the period of Assessment (10)

Total Marks 10.00

Institute Marks: 10.00

Academic audits are conducted in order to monitor and evaluate the teaching learning process. The process consists of internal audits and external audits. The Academic Audit provides the opportunity for a regular strategic overview of the entirety of learning and teaching activity. It is the primary means by which the University assures itself of the efficiency and robustness of each department's quality management procedures and of continued enhancement of the quality of the student experience. A report of the review will be produced by the department and asked to respond to the report by producing an action plan to address any issues identified. The Academic Audit is done at the department level. It consists of internal audit and external audits. Audits are conducted for teaching process, laboratory maintenance and departmental activities.

Faculty audit:

The following records of the faculty members are verified during the internal academic audits.

- 1. Academic calendar
- 2. Subject Allotment
- 3. Individual time table
- 4. Syllabus
- 5. Lesson plan
- 6. Academic diary
- 7. Internal assessment question papers and scheme of evaluation
- 8. Previous Years University question papers

S.N	Academic Audit Tools/Methods	Implementations & Actions
		Audit of
		Adherence to lecture plan
		status of assignment (uploaded & checked)
		Status Tutorial & Quizzes
1	Syllabus Coverage	Coverage of Lab Experiments
		Course Files.
		Audit of
		Performance of students in Internal & External Exams
		subject wise/Student wise.
2	Student Performance	Performance of students in other curricular and Technical activities.
		Attendance Registers
3	Attendance monitoring	Attendances of students are displayed on notice boards twice a semester.
	A d	Graduate exit survey,
4	Academic surveys	Surveys for PO/PEO mapping,

1. Placement, Higher Studies and entrepreneurship: -

To improve placement, higher studies and entrepreneurship, technical competency by imparting cutting edge technical education is developed. Core Competence can be enhanced through rigorous course work, by establishing strong linkages with well-known technical institutes and industries. Campus credential courses are conducted. More seminars for guiding the students who wants to pursue their higher studies through student's bodies like CESS, ACM, IEEE etc. are conducted.

2. Internship: -

Students are motivated for Internship program in reputed industries.

Department has appointed one senior faculty, who will look after and support students for internship program.

3. Student's Activities: -

Creating a conducive environment wherein students are exposed to industry /social connects. Students made to organize technical events and improve their communication and interpersonal skill through departmental forum. Sufficient number of programs are conducted under Department forum like CESS, ACM and IEEE etc.

Academic audit observation, suggestion, remarks and outcome:

Sr. Points Observation/ Suggestion Action Plan Action Taken Outcom		Points	Observation/ Suggestion	Action Plan	Action Taken	Outcome
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	, 12.011 101				
1	Minutes of meeting of Subject committees	Domains are identified and faculties are assigned to each domain but abstract need to be added.	Meetings are to be conducted twice in a semester.	Meetings are conducted periodically to review the course delivery.	Information about the committee meetings are available.
2	Contents of course file	Index may be modified. ICT methods may be added.	Informed to all teaching faculties about the flaws found in the course file.	Course file index are modified	Course file are maintained in well manner.
2	Text books and Reference book	Additional reference book need to added to academic diary		academic diary.	Available in academic diary.
3	Use of ICT in teaching learning process	Mention tools in teaching plan.	Conducted meeting for discussion and use of ICT tool.	Used Google Classroom for flipped learning.	Tools are mentioned in academic process.
4	Content Beyond Syllabus	Need to improve the activities	Informed to all teaching faculties for conduction activities required for content beyond syllabus	Activities for content beyond syllabus are mention in academic diary.	Activities improved.
5	Quality of assignment questions	Question bank need to be provided to student	Informed to all teaching faculties for providing QB to students.	Question bank wrt. content provided to student	Assignment QB provided to student.
6	Mechanism for Engaging Lab, New experiments added etc.	Need to change 10 % to 20% experiment every year.	Informed to all teaching faculties for changing experiment list as per suggestion.	New experiments are added.	Changes are done accordingly.
7	Mechanism adopted for collaborative and experimental learning	Arrange expert sessions.	Informed to all teaching faculties for conduction of activities required for content beyond syllabus	Department level student bodies organizes the workshops and competitions.	Activities are performed
8	CO-PO mapping	Need to revised target.	Conducted meeting for discussion on co po mapping target and its revision.	Prepare articulation matrix for each course using performance indicators provided by AICTE under exam reform policy.	Target revised as per process.

9	•	utilization is satisfactory.	requirement and budget planning for the department	l '	Adequate budget sanctioned
10	Academic practices	Expert lectures and online courses need to be added	professional bodies these	activities are conducted by	Improved but required more workshop.
11	Student mentoring	More information is required in student mentoring file.	for student	Prepared student mentoring booklet/ diary .	Improved. It includes academic as well as co- curricular record of student from sem I to VIII.

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

Total Marks 10.00

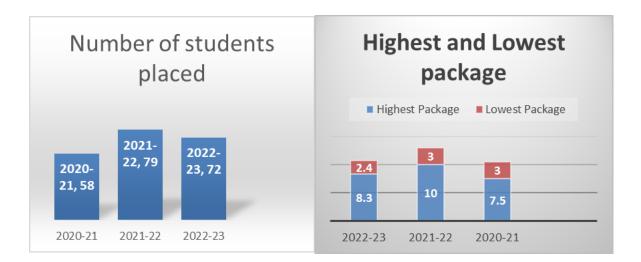
Institute Marks : 10.00

Assessment is based on improvement in: Placement: number, quality placement, core industry, pay packages etc. Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier Institutions Entrepreneurs

We are providing the data of Placement and Higher study details of Computer Engineering Department for Academic Year 2022-23, 2021-22 and 2020-21

1. Placement: number, quality placement, core industry, pay packages etc.

Year	2022-23*	2021-22	2020-21		
Number of Placement	72	79	58		
Industry	HUL	Parkin Elmer	Capgemini		
Highest package	8.3 LPA	10 LPA	7.5 I.PA		
Low package	2.4 LPA	3 LPA	3 LPA		



Year: 2022-2023*:

In this academic year total 72 (54.5%) candidates were selected by different core companies like TCS, Infosys, MAQ software, BNP Paribas India Solution, Dolet Capital, Hindustan Unilever Limited, etc. 8.3 lakh was Highest package offered and 2.4 lakh was the lowest.

Year: 2021-2022:

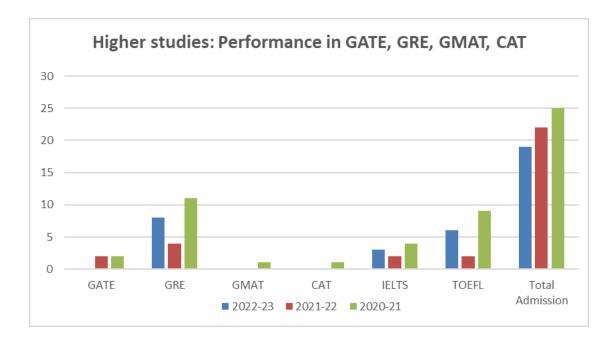
In this academic year total of 79 (85%) candidates were selected by different core companies like TCS, Capgemini, Zeus System Private Limited, Parkin Elmer, Infosys Ltd., Cybase software pvt ltd etc. 10 lakh was Highest package offered and 3 lakh was the lowest.

Year: 2020-2021:

In this academic year total 58 (43.93%) candidates were selected by different core companies like TCS, Infosys, Haxaware Technologies Ltd., Axis bank, Capgemini, Diebold Nixdorf India Pvt. Ltd., etc. 7.5 lakh was Highest package offered and 3 lakh was the lowest.

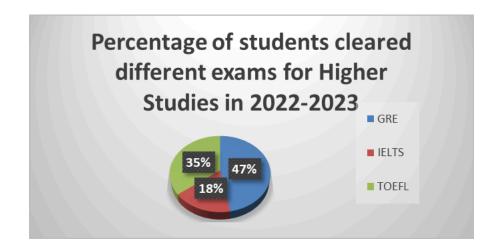
2. Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier institutions

Year	2022-23*	2021-22	2020-21
performance in GATE		02	02
performance in GRE,	08	04	11
performance in GMAT			01
performance in CAT			01
performance in IELTS	03	02	04
performance in TOEFEL	06	02	09
Admission in Premiere Institute/foreign Universities	19	22	25



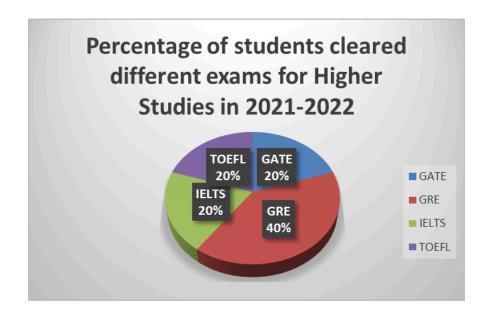
Year: 2022-2023*:

In this academic year 19 (14.39%) students opted for Higher studies at foreign universities like Stevens Institute of Technology, Illinois Institute of Technology, Dublin City University, California State University, etc. Among those 08 (42%) opted GRE, 03 (15.7%) opted IELTS exam, and 06 (31.57%) opted for the TOEFL exam.



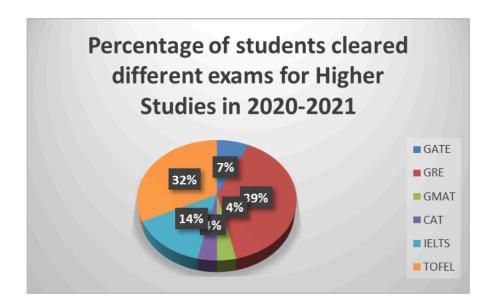
Year: 2021-2022:

In this academic year 22 (16.6%) students opted for Higher studies in IISC Bangalore, VJTI Mumbai, NMIMS Mumbai as well as in foreign universities like the University of Texas, NC State University, Syracuse University, etc. Among those 02 (9%) opted for the GATE exam, 04 (18.18%) opted GRE, 02 (9%) opted IELTS exam, and 02 (9%) opted for the TOEFL exam.



Year: 2020-2021:

In this academic year, 25 (17.3%) students opted for Higher studies at IIT Bombay, IIT Jodhpur, and IIM Calicut as well as in foreign universities like the Boston University, University of Southern California, New Jersy Institute of Technology, New York University (USA), University of Western Australia, etc. Among those 02 (9%) opted for the GATE exam, 02 (8%) opted GRE, 11 (44%) opted IELTS exam, 1(4%) opted for GMAT, 1(4%) opted for the the CAT, 4(16%) opted for IELTS, and 09 (36%) opted for the TOEFL exam.



3. Entrepreneurs

In 2022-2023 academic Year we have 4 students (3%) who works as an entrepreneur as per the details given below.

Year	Name of Students	Name Of Firm	Position in Firm		
	Namrata Jaiswal	Apinnovate IT consulting Services	Co-Founder		
	Sayeed Nabeel Akhtar	Detroids Pvt. Ltd.	Director		
2022-23*	Jatin Singh	Mothers Made Pvt. Ltd.	Co-Founder		
	Aditya Mane	Flyencart Pvt. Ltd.	Co-Founder		

7.4 Improvement in the quality of students admitted to the program (10)

Total Marks 10.00

Institute Marks: 10.00

ltem		2023-24	2022-23	2021-22
National Level Entrance Examination	No of students admitted	15	19	15
	Opening Score/Rank	96	98	90
JEE	Closing Score/Rank	90	88	85
State/ University/ Level Entrance Examination/ Others	No of students admitted	104	101	105
	Opening Score/Rank	97	96	96
MHCET	Closing Score/Rank	4	45	11
Name of the Entrance Examination for Lateral Entry or lateral entry	No of students admitted	14	13	14
details	Opening Score/Rank	89	93	96
Diploma in Engneering	Closing Score/Rank	76	70	68
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		57	65	83

8 FIRST YEAR ACADEMICS (50)

Total Marks 46.42

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

Total Marks 5.0

Institute Marks : 5.0

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

Name of the			Date of	Area of		Doto of	Teac	hing loa	ad (%)	Currently	Nature Of	Date Of leaving(In
faculty member	PAN No.	Qualification	Receiving Highest Degree	Area of Specialization	Designation	Date of joining			CAYm2	Associated (Yes / No)	Association (Regular / Contract)	case Currently Associate is 'No')
Prof. B. B. Saw	AMYPS0250J	M.Sc	20/05/1993	Mathematics	Assistant Professor	08/01/1999	100	100	100	Yes	Regular	
Dr. Asha Bhave	AQRPD5362P	M.Sc. and PhD	20/06/2016	Mathematics	Assistant Professor	23/07/2017	100	100 100		No	Regular	15/09/202
Prof. Rohini Gł	ASOPG2941E	M.Sc	17/08/2009	Mathematics	Assistant Professor	01/08/2012	0	100	100	No	Regular	30/06/202
Prof. Rahul Ch	BDWPC8137Q	M.Sc	03/08/2016	Mathematics	Assistant Professor	03/07/2017	0	100	100	No	Regular	29/09/202
Prof. Shalini Sh	ANOPD2999L	M.Sc	25/05/2004	Mathematics	Assistant Professor	01/01/2010	100	100	100	Yes	Regular	
Prof. Sarla Yad	AGNPY6181D	M.Sc	28/01/2012	Mathematics	Assistant Professor	21/11/2022	9	0	0	Yes	Regular	
Dr. K. G. Chau	AAUPC5192P	M.Sc. and PhD	27/10/2014	Physics	Assistant Professor	25/08/1994	100	100	100	Yes	Regular	
Dr. Y.S. Patil	AGGPP2364J	M.Sc. and PhD	25/04/2015	Physics	Assistant Professor	22/07/1999	100	100	100	Yes	Regular	
Dr. Neeta Kaps	AFKPJ7569N	M.Sc. and PhD	15/03/2000	Chemistry	Assistant Professor	11/07/2003	100 100 100		100	Yes	Regular	
Dr. Pallavi Mal	BEZPD0384L	M.Sc. and PhD	20/02/2015	Chemistry	Assistant Professor	20/07/2015 100		100	100	Yes	Regular	
Dr. Priyanka Κε	AJPPM6881R	M.Sc. and PhD	01/10/2013	Chemistry	Assistant Professor	05/01/2020	0	0	100	Yes	Regular	
Prof. D.K. Chal	AGJPC3191K	MA	15/06/2004	Communication Skills	Assistant Professor	07/11/2005	100	100	100	Yes	Regular	
Prof. S.S. Patil	BHUPP5854M	MA	15/06/2008	Communication Skills	Assistant Professor	01/01/2010	100	100	100	Yes	Regular	
Prof. Ankush Ir	ABUPI5235L	MA	12/06/2009	Communication Skills	Assistant Professor	01/01/2010	100 100 100		100	Yes	Regular	
Prof. R. N. Sha	AMRPS8331D	M.E/M.Tech	12/12/1993	Mechanical	Assistant Professor	15/01/1999	100	100	100	Yes	Regular	
Prof. Chetan R	ARVPR4238D	M.E/M.Tech	26/08/2015	Mechanical	Assistant Professor	03/07/2017	100	100	100	Yes	Regular	
Prof. Nikhil V.	FNUES2741J	M.E/M.Tech	26/08/2016	Mechanical	Assistant Professor	03/07/2017	100	100	100	Yes	Regular	
Dr. Manju latha	AJZPL1420B	ME/M. Tech and PhD	15/12/2021	Mechanical	Assistant Professor	01/01/2022	63	0	0	No	Regular	06/07/202
Prof. Swetali Ta	DNDPB0438J	M.E/M.Tech	04/09/2017	Mechanical	Assistant Professor	03/10/2022	44	0	0	Yes	Regular	
Prof. Priyanka	BZZPK0404K	M.E/M.Tech	15/06/2011	Mechanical	Assistant Professor	06/07/2015	0	0	63	No	Regular	31/03/2020
Prof. R. R. Gu	BCHPG4592H	M.E/M.Tech	16/03/2016	Mechanical	Assistant Professor	03/07/2017	63	0	0	No	Regular	14/09/202
Prof . M. R. Val	AQCPV8191R	M.E/M.Tech	24/11/2015	Mechanical	Assistant Professor	18/07/2016	44 100 0		Yes	Regular		
Prof. P. Paul	BUWPP8428E	M.E/M.Tech	26/08/2016	Mechanical	Assistant Professor	03/07/2017	0	25	0	Yes	Regular	
Prof. S. D. Gail	AFQPG0564E	M.E/M.Tech	08/12/2005	Mechanical	Assistant Professor	09/11/2011	13	100	100	Yes	Regular	
Prof. N.J. Pana	ATFPP3300G	ME/M. Tech and PhD	08/07/2021	Mechanical	Assistant Professor	18/07/2016	0	13	0	Yes	Regular	

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10/24, 12.01 FW						FIIII						
Prof. R.M. Sido	CREPS9691G	M.E/M.Tech	20/12/2014	Mechanical	Assistant Professor	07/07/2015	0	0	25	Yes	Regular	
Prof. Chhaya F	ACAPH8884K	M.E/M.Tech	26/08/2013	Instrumentation	Assistant Professor	13/07/2009	0	0	100	No	Regular	31/07/2021
Dr. Satyanaray	AOFPS3397P	ME/M. Tech and PhD	16/07/2020	Instrumentation	Assistant Professor	08/09/2006	100	100	0	Yes	Regular	
Prof. Gunwant	AKSPS3334F	M.E/M.Tech	15/03/2010	Instrumentation	Assistant Professor	29/07/2004	100	100 100 0		Yes	Regular	
Prof. Sanjana F	AHTPR5303B	M.E/M.Tech	03/03/2008	Electronics and Telecom	Assistant Professor	15/06/2005	100	100	25	Yes	Regular	
Prof. Piyush Da	ALOPD5585A	M.E/M.Tech	01/12/2014	Electronics and Telecom	Assistant Professor	27/07/2016	0	0	100	No	Regular	03/08/2021
Prof. Kunal Tiw	AJWPT1300M	M.E/M.Tech	17/09/2021	Instrumentation	Assistant Professor	17/02/2021	0	0	63	No	Regular	01/06/2021
Prof . Ankur Ga	ALUPG8086D	M.E/M.Tech	12/01/2012	Electronics and Telecom	Assistant Professor	01/07/2013	0	100	0	No	Regular	06/06/2022
Prof. Vinita Var	ATPPM2020E	M.E/M.Tech	01/08/2014	Instrumentation	Assistant Professor	05/08/2014	100	100	0	Yes	Regular	
Prof. Vidya V. J	AZMPK9433E	M.E/M.Tech	02/08/2010	Instrumentation	Assistant Professor	17/06/2005	0	100	0	No	Regular	20/10/2022
Prof. Ankita Ya	AOWPY9049R	M.E/M.Tech	10/11/2020	Electronics and Telecom	Assistant Professor	18/07/2022	59	0	0	Yes	Regular	
Prof. P.B. Gawa	ABQPG0021Q	M.E/M.Tech	07/06/1989	Instrumentation	Assistant Professor	01/08/1996	0 0 63		Yes	Regular		
Prof. R.Y. Kurn	ABDPK7353A	M.E/M.Tech	15/11/1997	Mechanical	Assistant Professor	10/08/2004	100 100 100		Yes	Regular		
Dr. Manoj Patil	ANBPP6139B	ME/M. Tech and PhD	05/08/2022	Computer	Associate Professor	05/08/2022	21 0 0		Yes	Regular		
Dr. Shikha Gup	ALSPG3774C	ME/M. Tech and PhD	10/09/2020	Computer	Associate Professor	01/02/2023	21	0	0	Yes	Regular	
Prof. Deepak 6	APZPG7894N	M.E/M.Tech	15/06/2015	Computer	Assistant Professor	28/07/2008	31	100	100	Yes	Regular	
Prof. Naina Ka	AEROL5347L	M.E/M.Tech	24/11/2005	Computer	Assistant Professor	04/07/2011	0 100 100		100	Yes	Regular	
Prof. Kajaal Sh	BKQPS3135K	M.E/M.Tech	26/08/2008	Computer	Assistant Professor	01/01/2010	0	100	100	Yes	Regular	
Prof. Sumitra S	BTWPS1501A	M.E/M.Tech	01/05/2008	Computer	Assistant Professor	07/04/2011	0	13	0	Yes	Regular	
Prof. Dnynesh	ANMPD5041R	M.E/M.Tech	29/03/2014	Computer	Assistant Professor	01/07/2008	0	13	0	No	Regular	31/01/2022
Prof. Kausar At	ABUPA5957H	M.E/M.Tech	16/01/2017	AIDS	Assistant Professor	03/01/2022	16	0	0	No	Regular	17/08/2023
Prof Taruna S	BXAPS5096L	M.E/M.Tech	29/08/2009	Computer	Assistant Professor	17/03/2023	100	0	0	No	Regular	30/06/2023
Prof. Shivani K	MHCPK7309D	M.E/M.Tech	30/09/2021	Computer	Assistant Professor	23/01/2023	13	0	0	Yes	Regular	
Prof. Sowmya:	DSDPS2614N	M.E/M.Tech	15/06/2015	Computer	Assistant Professor	21/03/2022	19	0	0	No	Regular	20/03/2023
Prof. Radha Na	DACPS2482B	M.E/M.Tech	15/10/2016	Computer	Assistant Professor	01/03/2022	28	0	0	No	Regular	30/12/2022
Dr. Swati Narw	AQSPP1680P	ME/M. Tech and PhD	23/02/2023	IT	Associate Professor	01/02/2023	6	0	0	Yes	Regular	
Prof. Mrunaline	CZOTP0267R	M.E/M.Tech	20/12/2017	IT	Assistant Professor	10/01/2023	13	0	0	Yes	Regular	
Prof. Aditi Malk	AJBPN7885Q	M.E/M.Tech	22/11/2016	Computer	Assistant Professor	05/01/2023	13	0	0	Yes	Regular	

Prof. Nilesh Bh AKBPB4994R M.E/M.Tech 21/06/2008 AIDS Assistant Professor	23/01/2023	13	0	0	Yes	Regular	
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Year	Number Of Students(approved intake strength) N	m	umber of Faculty embers(considering fractional ad) F	FYSFR (N/F)		ssessment= '20)/FYSFR(Limited to Max.5)
2021-22(CAYm2)	480		5	20		
2022-23(CAYm1)	480	180 28		17		
2023-24(CAY)	480	24	4	20		
Average	480		25	19		5

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Total Marks 2.67

Institute Marks: 2.67

Year	x (Number Of Regular Faculty with Ph.D)	y (Number Of Regular Faculty with Post graduate Qualification)	RF (Number Of Faculty Members required as per SFR of 20:1	Assessment Of Faculty Qualification [(5x + 3y) / RF]		
2021- 22	5	16	24	3.00		
2022- 23	6	17	24	3.00		
2023- 24	5	14	24	2.00		

Average Assessment: 2.67

8.3 First Year Academic Performance (10)

Total Marks 8.75

Institute Marks: 8.75

Academic Performance	2023-24	2022-23	2021-22
Mean of CGPA or mean percentage of all successful students(X)	7.89	8.84	9.52
Total Number of successful students(Y)	120.00	120.00	119.00
Total Number of students appeared in the examination(Z)	120.00	120.00	119.00
API [X*(Y/Z)]	7.89	8.84	9.52

Average API[(AP1+AP2+AP3)/3]: 8.75

Assessment [1.5 * Average API]: 8.75

8.4 Attainment of Course Outcomes of first year courses (10)

Total Marks 10.00

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

Institute Marks: 5.00

ASSESSMENT STRATEGY FOR OUTCOME-BASED EDUCATION

1. Mapping Program Outcomes to Assessment (Examinations)

Program Outcomes (POs) articulate the generic abilities to be looked for in a graduate of any undergraduate degree program. They form the Program Outcomes (POs) that reflect the skills, knowledge and abilities of graduates regardless of the field of study. This does not mean that POs are necessarily independent of disciplinary knowledge—rather, these qualities may be developed in various disciplinary contexts. In outcome-based education, a "design down" process is employed which moves from POs to Course Outcomes (COs) and outcomes for individual learning experiences. Outcomes at each successive level need to be aligned with, and contribute to, the program outcomes. Courses are the building blocks of a program. Teaching strategies, learning activities, assessments and resources should all be designed and organized to help students achieve the learning outcomes at the course level. In the assessment activities, students demonstrate their level of achievement of the course learning outcomes. In a constructively aligned program, the courses are carefully coordinated to ensure steady development or scaffolding from the introduction to mastery of the learning outcomes, leading to the achievement of the intended POs. For the effectiveness of the program, the achievement of POs is crucial which needs to be proven through accurate and reliable assessments.

2. Two-step Process for Bringing Clarity to POs

POs give useful guidance at the program level for the curriculum design, delivery and assessment of student learning. However, they represent fairly high-level generic goals that are not directly measurable. Real observability and measurability of the POs at course level is very difficult. To connect high-level learning outcomes (POs) with course content, course outcomes and assessment, there is a necessity to bring further clarity and specificity to the program outcomes [5]. This can be achieved through the following two-step process of identifying Competencies and Performance Indicators (PI). (1) Identify Competencies to be attained: For each PO define competencies—different abilities implied by program outcome statement that would generally require different assessment measures. This helps us to create a shared understanding of the competencies we want students to achieve. They serve as an intermediate step to the creation of measurable indicators.

Example: Program Outcome (Attribute 3)

Design: 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 public health and safety, and cultural, societal, and environmental considerations. Competencies

- 1. Demonstrate an ability to define a complex, open-ended problem in engineering terms.
- 2. Demonstrate an ability to generate a diverse set of alternative design solutions.
- 3. Demonstrate an ability to select the optimal design scheme for further development.
- 4. Demonstrate an ability to advance an engineering design to the defined end state.
- (2) Define Performance Indicators: For each of the competencies identified, define performance Indicators (PIs) that are explicit statements of expectations of the student learning. They can act as measuring tools in assessment to understand the extent of attainment of outcomes. They can also be designed to determine the appropriate achievement level or competency of each indicator so that instructors can target and students can achieve the acceptable level of proficiency.

Example: For the Competency -2

Demonstrate an ability to generate a diverse set of alternative design solutions

Performance Indicators:

- 1. Apply formal idea generation tools to develop multiple engineering design solutions
- 2. Build models, prototypes, algorithms to develop a diverse set of design solutions
- 3. Identify the functional and non-functional criteria for evaluation of alternate design solutions. It should be noted that, when we consider the program outcome, it looks like, it can be achieved only in the Capstone project. But if we consider the competencies and performance indicators, we start seeing the opportunities of addressing them (and hence PO) in various courses of the program.

Once the above process is completed for the program, the assessment of COs for all the courses is designed by connecting assessment questions (used in various assessment tools) to the PIs. By following this process, where examination questions map with PIs, we get clarity and better resolution for the assessment of COs and POs. The pictorial representation of the process is given in Fig. 1

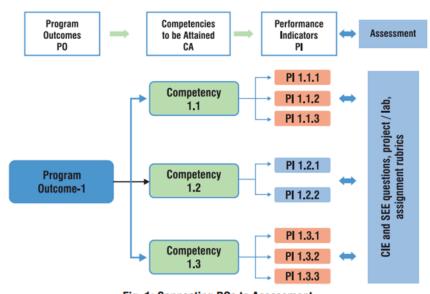


Fig. 1: Connecting POs to Assessment

Reference: AICTE Examination Reform Policy November 2018

As per University curriculum, articulation matrix is formed for all subjects.

UG PROGRAM IN COMPUTER ENGINEERING

PROGRAM ARTICULATION MATRIX OF FE COURSES

Year	Sem	Course	Name of Course							Progr	am Ou	tcomes	3				
		Code		POl	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
		FEC101	Engineering Mathematics-I	2.00	1.00	1.00	1.00	1.00	ı	1	-			-	1.00		-
		FEC102	Engineering Physics - I	2.33	1.67	1.00	-	_	١	١	-	_	_	_	1.50	_	_
		FEC103	Engineering Chemistry - I	1.00		1.00		1.00	-	-				-	1.83		-
	I	FEC104	Engineering Mechanics	2.00	1.00	1.00	1.00		-			-	1.00				-
	-	FEC105	Basic Electrical Engineering	2.00	1.00	-				-				-	-		-
		FEL103	Engineering Mechanics Lab	2.00	1.00	1.00	1.00	1	1	ı	ı	1	1.00	-	1		-
		FEL104	Basic Electrical Engineering Lab	2.00	2.00	1		-	1	1	1.00	3.00		-	-		-
FE		FEL105	Basic Workshop Practice - I	2.29	1.57	1.00	-		2.00	1	-	-	2.00	-			-
FE		FEC201	Engineering Mathematics-II	2.00	1.00	1.00	1.00	1.00	1	ı	-	1		-	1.00		-
		FEC202	Engineering Physics-II	1.83	1.33		-	_	1	-	-	2.00	_	_	1.17	_	-
		FEC203	Engineering Chemistry-II	1.50	1.67	1.00	_	_	3.00	2.33	_	_	_	_	1.00		-
	п	FEC204	Engineering Graphics	1.00									1.00				-
	"	FEC205	C Programming	2.33	1.67	1.00	2.17	1.83	1	ı	ı	ı	-	-	1.40	2.00	1.00
			Professional Communication and Ethics - I	-	1	ŀ	ı	1	1	ı	1	1	1	-	1	1	-
		FEL203	Engineering Graphics Lab	1.00				1.00					2.00				-
		FEL206	Basic Workshop Practice - II	2.00	2.00	1.00			-				2.00				
		A	verage Value	1.82	1.41	1.00	1.23	1.17	2.50	2.33	1.00	2.50	1.43	_	1.24	1.50	1.00

DATA COLLECTION PROCESS & PROCEDURE:

In Outcome Based Education (OBE), assessment is done through one or more than one processes, carried out by the institution, that identify, collect, and prepare data to evaluate the achievement of course outcomes (CO's).

Assessment tools are categorized into two methods: Direct methods and indirect methods.

Direct methods measures the student's knowledge and skills based on the performance in the continuous internal assessment tests, semester examinations and classroom and laboratory assignments etc. These methods measures the level of what students know and/or can do after learning.

Indirect methods such as surveys will reflect on student's learning. They assess opinions or thoughts about the graduate's knowledge or skills and they are valued through survey from different stakeholders.

Attainment level measured in terms of student performance with respect to internal assessments of a subject plus the performance in the University examination

TARGET & ATTAINMENT LEVELS OF COS FOR INTERNAL and EXTERNAL ASSESSMENT

Level of CO attainment							
No. of students having marks > cut-off	Level						
No. of students having marks>=60%	3						
No. of students having marks 50% to 59%	2						
No. of students having marks 40% to 49%	1						

Note: High Scoring subjects can elevate the attainment level with justification for e.g. PCE I and PCE II

Internal Evaluation

Sr. No.	Assessment Methods
1	Internal Term Test
2	Assignments / Tutorials
3	Experiments
4	Course Project

End Semester Examination (University Examination)

Sr. No.	Assessment Methods
1	Theory examination
2	Laboratory examination

Direct Assessment of Theory & Lab:

Internal test are conducted as per the Academic Calendar set by institution and IA marks are computed considering the performance of the students in internal test.

The lab evaluations are calculated as per the rubrics and assigned

The Maximum Internal assessment for 2019 C Scheme is 15 or 20 marks.

Direct Assessment Methods are formative as well as summative:

For some of the POs that are abstract, rubrics has been designed using performance indicators and shared with the students in advance. This helps students to understand against which parameter their work will be judged". These rubrics can be used by students in, revising, and judging their work and progress.

Internal Assessment Test	Qualitative performance assessment tool such as Class tests are conducted by institute to assess students' knowledge and problem solving skills.					
Assignments / Tutorials	This is mainly to assess student's knowledge with their design thinking or logical analysis capabilities.					
Experiments	This is mainly to assess student's practical knowledge with their design thinking or logical analysis capabilities.					
End semester exam (theory + practical)	Semester End examination is the metric for assessing whether all the POs are attained or not. Examination is more focused on attainment of course outcomes and program outcomes.					

CO ATTAINMENT LEVEL	IA 1		IA2		ASSIGNMENT		EXPERIMENT		PROJECT / IV /	UNIVER - SITY
	Q1	Q2	Q1	Q2	A1	A2	E1	E2	PRESENTATION	EXAM
Maximum Marks										
Mapping CO										
Total No. of students appeared										
Total No. of students scored above 60										
Total No. of students scored above 50 and <59										
Total No. of students scored above 40 and <49										
Attainment Level										

8.4.2 Record the attainment of Course Outcomes of all first year courses (5)

Institute Marks: 5.00

The attainment of course is evaluated based on the following rubrics.

80% of Weightage to University exams & 20% weightage to Internal Assessment Test. Based on that attainment level is calculated.

CALCULATION OF FINAL ATTAINMENT LEVEL								Attainment Level		
Course Outcome	Test 1	Test 2	TUTORIALS	SCILAB TUTORIALS	Internal Evaluation Average	University Evaluation	80% of External+20% of Internal examination	3	2	1
CO1	2.59	-	3.00	-	2.80	1.94	2.11	2.11	1.4	0.7
CO 2	2.68	-	3.00	-	2.84	1.94	2.12	2.12	1.4	0.7
CO3	-	-	3.00	-	3.00	1.94	2.15	2.15	1.42	0.71
CO4	-	2.93	3.00	-	2.97	1.94	2.15	2.15	1.42	0.71
CO5	-	2.82	3.00	-	2.91	1.94	2.13	2.13	1.41	0.7
CO6	-	-	3.00	3.00	3.00	-	0.60	0.6	0.4	0.2

ACADEMIC YEAR 2022-23

UG PROGRAM IN COMPUTER ENGINEERING
CO-PO MAPPING OF ALL FE COURSES

FE SEM - I

FE SE	M-I														
COUR	SE NAME: Engineering Mathematics -I							UR SE CO							
	COURSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PRC PO6	PO7	PO8	MES PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Illustrate the basic concepts of Complex number	1.66	0.83										0.83		
CO2	Apply the knowledge of complex numbers to solve problems in Hyperbolic function and Logarithmic function	1.66	0.83										0.83		
CO3	Illustrate the basic principles of partial differentiation	1.66	0.83										0.83		
CO4	Illustrate the knowledge of Maxima, Minima and successive differentiation, Maxima, Minima and successive differentiation		0.83										0.83		
CO5	Apply principal of basic operation of Matrices, rank and echelon from of Matrices to simultaneous equations	1.66	0.83										0.83		
CO6	Illustrate SCILAB programming techniques to the solution of linear and simultaneous algebraic equations	0.39	0.19	0.19	0.19	0.19							0.19		
	AVERAGE ATTAINMANT	1.45	0.72	0.19	0.19	0.19							0.72		-
CC	URSE NAME: Engineering Physics-I						COI	UR SE CO	DDE: FEO	C102					
								Program							
	COURSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Illustrate the fundamentals of quantum mechanics and its application.	1.31	1.31	_	_	_	_	_	_	_	_	_	0.65	_	_
CO2	Illustrate the knowledge of crystal planes, X-ray diffraction and its application.	1.98	1.31	0.65	_	_	_	_	_	_	_	_	1.31	_	_
CO3	Illustrate the knowledge of Fermi level in semiconductors and applications of semiconductors in electronic devices.	1.93	0.64	_	_	_	_	_	_	_	_	_	1.28	_	_
CO4	Illustrate the knowledge of interference in thin films and its various applications.	1.31	0.65	_	_	_	_	_	_	_	_	_	0.65	_	_
CO5	Illustrate the basic knowledge of superconductors and supercapacitors.	1.32	1.32	_	_	_	_	_	_	_	_	_	0.66	_	_
CO6	Illustrate the knowledge of engineering materials and applications.	1.32	1.32	_	_	_	_	_	_	_	_	_	1.32	_	_
	AVERAGE ATTAINMANT	1.53	1.09	0.65	_	_	_	_	_	_	_	_	0.98	_	_
COL	JRSE NAME: Engineering Chemistry-I						COI	UR SE CO	DDE: FEO	C103					
]	Program	Outcome	s					
	COURSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	POll	PO12	PSO1	PSO2
CO1	Explain the concept of microscopic chemistry in terms of atomic and molecular orbital theory and relate it to diatomic molecules.	0.83				0.83					-		1.67	-	-
CO2	Describe the concept of aromaticity and interpret it with relation to specific aromatic systems.		-	-	-	0.84		-	-	-	-	-	1.69	-	-
CO3	Illustrate the knowledge of various types of intermolecular forces and relate it to real gases.										-			-	-
CO4	Interpret various phase transformations using the modynamics.	0.84									-		0.84	-	-
CO5	Illustrate the knowledge of polymers, fabrication methods, conducting polymers in various industrial fields.			0.84		0.84					-		1.67	-	-
CO6	Analyze the quality of water and suggest suitable methods of treatment.	0.83		0.83							-		1.67	-	-
	AVERAGE ATTAINMANT	0.84		0.84		0.84							1.51	-	-

CO	URSE NAME: Engineering Mechanics						COI	URSE CO	DDE: FE	C104					
	COURSE OUTCOMES (CO)						PRO	OGRAM	OUTCO	MES					
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
	Illustrate the concept of force, moment and														
CO1	apply the same along with the concept of equilibrium in two and three dimensional	1.27	0.63	0.63	0.63	-	-	-	-	-	0.63	-	-		-
	systems with the help of FBD.														
CO2	Demonstrate the understanding of Centroid and its significance and locate the same.	1.27	0.63	0.63	0.63	-	-	-	-	-	0.63	-	-		-
	Correlate real life application to specific type of														
CO3	friction and estimate required force to overcome friction	1.27	0.63	0.63	0.63	-	-	-	-	-	0.63	-	-		
	inction. Establish relation between velocity and														
CO4	acceleration of a particle and analyze the motion		0.63	0.63	0.63	-	-	_	-	-	0.63	-	-		
	by plotting the relation														
CO5	Illustrate different types of motions and establish Kinematic relations for a rigid body	1.27	0.63	0.63	0.63	-	-	-	-	-	0.63	-	-		-
	Analyze particles in motion using force and														
CO6	acceleration, work-energy and		-	-	-	-	-	-	-	-	-	-	-		
	impulsemomentum principles														
	AVERAGE ATTAINMENT	1.27	0.63	0.63	0.63	-	-	-	-	-	0.63	-	-		-
COURSE	NAME: Basic Electrical Engineering						COI	JRSE CO	DF · FF (°-105					
COCKS								OGRAM							
	COURSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
	Apply various network theorem to														
CO1	determine the circuit response /	1.33	0.66										-		-
	behavior.														
CO2	Evaluate and analyse 1-Φ circuits	1.33	0.66										-		-
CO3	Evaluate and analyse 3-Φ AC circuits	1.33	0.66										-		-
CO4	Understand the constructional features	1.33	0.66												
004	and operation of 1- Φ transformer	1.33	0.00										-		_
cos	Illustrate the working principle of 1-Φ	_													
CO5	and 3-Ф induction machine.	2	1										_		_
	AVERAGE ATTAINM ANT	1.46	0.73										-		-
COURSE	NAME: Engineering Mechanics Lab						COL	URSE CO	DE · FF	.103					
COCICAL								OGRAM							
	COURSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Verify equations of equilibrium of coplanar force system	1.43	0.71	0.71	0.71	-	-	-	-	-	0.71	-	-		
CO2	Verify law of moments	1.43	0.71	0.71	0.71	-	-	-	-	-	0.71	-	-		-
CO3	Determine the centroid of plane lamina.	1.43	0.71	0.71	0.71	-	-	-	-	-	0.71	-	-		
CO4	Evaluate co-efficient of friction between the different surfaces in contact.	1.43	0.71	0.71	0.71	-	-	-	-	-	0.71	-	-		
	Demonstrate the types of collision/impact and														
CO5	determine corresponding coefficient of		0.71	0.71	0.71	-	-	-	-	-	0.71	-	-		
	restitution Differentiate the kinematics and kinetics of a														-
CO6	particle	1.43	0.71	0.71	0.71	-	-	-	-	-	0.71	-	-		-
	AVERAGE ATTAINM ANT	1.43	0.71	0.71	0.71	-	-	-	-	-	0.71	-	-	-	-
				•		•	•	•		•		•	•		
COURSE	NAME: Basic Electrical Engineering Lab						CO	URSE CO	DDE: FE	L104					
	COURSE OUTCOMES (CO)							OGRAM			1			ı	
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Interpret and analyse the behaviour of DC circuits using network theorems.	1.99	1.99						0.99	2.99			-		-
CO2	Perform and infer experiment on single phase AC circuits.	1.99	1.99						0.99	2.99			-		-
CO3	Demonstrate experiment on three phase AC circuits.	1.99	1.99						1.00	2.99					-
CO4	Illustrate the performance of single phase transformer and machines.	1.99	1.99						1.00	2.99			-		-
	AVERAGE ATTAINMENT	1.99	1.99						0.99	2.99			_		_

COURSE	NAME: Basic Workshop Practice - I						COU	JRSE CO	DE: FEI	L105					
	COURSE OUTCOMES (CO)						PRO	GRAM (OUTCCO	MES					
	COURSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Develop the necessary skill required to handle/use different fitting tools	1.82	0.9	0.9	•	-	•	-	-	•	1.82	-	0.9	-	-
CO2	Develop skill required for hardware maintenance	1.81	1.81	0.89	•	1.81	1.81	•	•	1	1.81	-	1.81	-	•
CO3	Able to install an operating system and system drives.	1.81	1.81	0.89	-	1.81	•	-	0.89	•	1.81	-	1.81	-	-
CO4	Able to identify the network components and perform basic networking and crimping	1.81	1.81	0.89	-	1.81	-	-	-	-	1.81	-	1.81	-	-
CO5	Able to prepare edges of jobs and do simple arc welding.	2.68	0.88	0.88	-	-	•	-	,	•	1.8	-	0.88	-	•
CO6	Develop the necessary skill required to handle		-	-	-	-	-	-		-	-	-	-	-	-
CO7	Demonstrate the turning operation with the help of a simple job	-	-	-	-	-	•	-		-	-	-	-	-	-
	AVERAGE ATTAINMENT	1.99	1.44	0.89	-	1.81	1.81	-	0.89	-	1.81	-	1.44	-	-

FE SEM - II

COUR	SE NAME: Engineering Mathematics -II						COL	JRSE CO	DE: FEC	C101					
	COURSE OUTCOMES (CO)]	Program (Outcome	s					
	COURSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
	Apply the concept of first order and first degree														
CO1	Differential equation to the problem in the field	1.32	0.66										0.66	-	-
	of engineering														
CO2	Apply the concept of higher order linear	1.32	0.66										0.66	_	_
	differential equation to the engineering problem		0.00										0.00		
CO3	Apply concept of Beta and Gamma function to	1.32	0.66										0.66	_	_
	solve improper integrals														<u> </u>
	Apply concept of Double Integral of different														
CO4	coordinate system to the engineering problem	1.32	0.66										0.66	-	-
	like area and mass														
	Apply concept of triple integral of different														
CO5	coordinate system to the engineering problem	1.32	0.66										0.66	-	-
	and problem based on volume of solids														
	Solve differential equations and integration														
CO6	numerically using SCILAB software to	1.32	0.39	0.39	0.39	0.39							0.39	-	-
	experimental aspects of applied mathematics														
	AVERAGE ATTAINM ANT	1.32	0.62	0.39	0.39	0.39	-			1			0.62	•	-

COURSE	NAME: Engineering Physics-II						COI	JRSE CO	DE: FE	C202					
	COURGE OUTCOMES (CO)]	Program	Outcome	s					
	COURSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Illustrate the knowledge of diffraction through slits and its applications.	1.41	0.70	_	_	_	-	_	_	1.41	_	_	0.70	1	_
CO2	Illustrate the working principle of various lasers and their applications in different fields, The		1.41							1.41			0.70		
CO2	concepts of optical fiber and its applications in communication system.	2.13	1.41		_			_		1.41		_	0.70		_
CO3	Illustrate the fundamentals of electrodynamics with required mathematical concepts.	0.70	0.70	_	_	_	_	_	_	1.39	_	_	0.70	-	_
CO4	Illustrate the fundamentals of relativity.	1.39	0.70	_	_	_	_	_	_	1.39	_	_	0.70	-	_
CO5	Illustrate the knowledge of synthesis, characterization and applications of nanomaterials.	0.70	0.70	_	_	_	_	_	_	1.41	_	_	0.70	_	_
CO6	Illustrate the knowledge of working principles of various sensors.	1.39	1.39	_	_	_	_	_	_	1.39	_	_	1.39		_
	AVERAGE ATTAINMENT	1.29	0.93	_	_	_	_	_	_	1.40	_	_	0.82	_	_

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COL	JRSE NAME: Engineering Chemistry-II							URSE CO							
	COURSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PO6	Program PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
	Distinguish the ranges of the electromagnetic														
COI	spectrum used for exciting different molecular	0.78		0.78	_			_					0.78	_	_
COI	energy levels in various spectroscopic	0.70		0.76		_	-	-	-		_		0.70		
	techniques.														
CO2	Illustrate the concept of emission spectroscopy and describe the phenomena of fluorescence													_	_
1 002	and phosphorescence in relation to it.														
	Explain the concept of electrode potential and														
CO3	nernst theory and relate it to electrochemical	0.77		0.77							-		0.77	_	_
	cells.														
CO4	Identify different types of corrosion and suggest control measures in industries.	1.56	0.78	1.56		-		1.56			-		1.56	_	_
	Illustrate the principles of green chemistry and														
CO5	study environmental impact.	1.56	1.56	0.79	-	-	2.36	2.36	-	-	-		0.79	_	_
	Explain the knowledge of determining the														
CO6	quality of fuel and quantify the oxygen required	1.56	1.56	0.78		-	2.36	2.36	-	-	-		0.78	-	_
	for combustion of fuel.	1.05	1.00	0.04			2.26	2.00					0.04		
	AVERAGE ATTAINM ANT	1.25	1.30	0.94	_	_	2.36	2.09					0.94	_	_
64	NIDGE NAME, Parkage Constitution						COL	mer ee	NDE, EE	C20.4					
	OURSE NAME: Engineering Graphics							URSE CO Program							
	COURSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
	Apply the basic principles of projections in			103			100	10/					1012		F302
CO1	Projection of Lines and Planes	0.62									0.62		-		-
CO2	Apply the basic principles of projections in	0.62	_		_	_			_	_	0.62		_		
- 02	Projection of Solids.	0.02				-					0.02				
CO3	Apply the basic principles of sectional views in	0.62									0.62		_		
	Section of solids. Apply the basic principles of projections in														
CO4	converting 3D view to 2D drawing	0.62		-					-	-	0.62		-		-
CO5	Read a given drawing.	0.62							_		0.62		_		
CO6	Visualize an object from the given two views.	0.62									0.62		-		
	AVERAGE ATTAINMENT	0.62									0.62		_	_	_
	COURSE NAME: C-Programming						COI	URSE CO	DDE: FE	C205					
	COURCE OUTCOMES (CO)]	Program	Outcome	S					
	COURSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
	Formulate simple algorithms for arithmetic,														
CO1	logical problems and translate them to programs	1.66	0.83	0.8277	1.6554	0.83							-	1.6554	0.8277
	in C language														
CO2	Implement, test and execute programs comprising of control structures	2.52	1.66	0.8302	1.66	1.66							0.83	1.6605	0.8302
604	Decompose a problem into functions and	2.51	1.65	0.0060	1.051	1.054							1.6538	1.6538	0.8269
CO3	synthesize a complete program.	2.31	1.65	0.8269	1.654	1.654							1.0008	1.0538	0.8209
CO4	Demonstrate the use of arrays, strings and	2.53	1.67	0.8343	1.669	1.669							1.6686	1.6686	0.8343
	structures in C language. Understand the concept of pointers	2.53	1.67										0.83	1.6693	0.8346
CO5	Understand the concept of pointers Understand the concept to allocate memory	2.33	1.07	0.8346	1.669	1.669							0.83	1.0093	0.8340
CO6	using dynamic memory management functions	2.54	0.84	0.8378	1.676	1.676							0.84	1.6756	0.8378
	AVERAGE ATTAINMENT	2.38	1.39	0.83	1.664	1.526			_		_		1.16	1.66	0.83
COURSE	NAME: Professional Communication &						col	URSE CO	nr. Fr	C206					
Ethics-I															
	COURSE OUTCOMES (CO)	PO.	P.C.	DO.	DC:	PO-		DGRAM			DO:	PO:	POTE	Doc.	Door
-	Eliminate barriers and use verbal/non-verbal	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	cues at social and workplace situations.	-	-	-	-	-	-	-	-	-	0.66	-	-	-	-
	Employ listening strategies to comprehend wide														
CO2	ranging vocabulary, grammatical structures, tone	-	-	-	-	-	-	-	-	0.54	0.54	-	-	-	-
<u> </u>	and pronunciation.														
CO3	Prepare effectively for speaking at social,	-	-	-	-	-	-	-	-	0.65	0.65	-	-	-	-
ļ	academic and business situations.														
CO4	use reading strategies for faster comprehension,	_	_	_	_	_	_	_	_		0.67	_	0.67		_
C04	summarization and evaluation of texts.	-	-	-	-	-	-	-	-		0.07	_	0.07		_
CO.5	Acquire Effective writing skills for drafting			_	_	_			_	0.65	0.65		_	0.65	
CO5	academic, business and technical documents.	-	_	_	_	_		-	_	0.00	0.65	_		0.00	-
CO6	Successfully interact in all kinds of settings,	-	-	-	-	-	-	-	0.66	0.66	0.66	-	_	_	-
	displaying refined grooming and social skills.												-		
	AVERAGE ATTAINM ANT	-	-	-	-	-	-	-	0.66	0.63	0.64	-	0.67	0.65	-

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COU	JRSE NAME: Engineering Graphics Lab						CO	URSE CO	DDE: FE	L203					
	COURCE OUTCOMES (CO)							Program	Outcome	s					
	COURSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	PO5	PO6	PO 7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Apply the basic principles of projections in 2D drawings using a CAD software.	0.61				0.6079					1.23		-		-
CO2	Create, Annotate, Edit and Plot drawings using basic AutoCAD commands and features.	0.61				0.6079					1.23		-		-
CO3	Apply the concepts of layers to create drawing,	0.61				0.6079					1.23		-		-
CO4	Apply basic AutoCAD skills to draw different views of a 3D object.	0.61				0.6079					1.23		-		-
CO5	Apply basic AutoCAD skills to draw the isometric view from the given two views.	0.61				0.6079					1.23		-		-
CO6	Autocad.					0.6079					1.23				-
	AVERAGE ATTAINMENT	0.61				0.61					1.23		-		-
COUL	RSE NAME: Basic Workshop Practice - II						CO	URSE CO	nne, ee	1 206					
COUL	KSE IVANIE : Dasie Wolkshop Flacine - II							GRAM (
	COURSE OUTCOMES (CO)	PO1	PO2	PO3	PO4	P05	P06	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	Develop the necessary skill required to use different carpentry tools.	1.9363	1.94	0.95	-	-	-	-	-	-	1.94	-	0.95	-	-
CO2	Identify and understand the safe practices to adopt in electrical environment	1.91	1.91	0.94	-	-	-	-	-	-	1.91	-	0.94	-	-
CO3	Demonstrate the wiring practices for the connection of simple electrical load/equipment.	1.91	1.91	0.94	-	-	-	-	-	-	1.91	-	0.94	-	-
CO4	Design, fabricate and assemble pcb	1.91	1.91	0.94	-		-	-	-	-	1.91	-	0.94	-	-
CO5	Develop the necessary skill required to use different masons tools.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	Develop the necessary skill required to use different sheet metal and brazing tools	1.95	1.95	0.96	-	-	-	-	-	-	1.95	-	0.96	-	-
CO 7	Able to demonstrate the operation, forging with the help of a simple job	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	AVERAGE ATTAINMENT	1.92	1.92	0.95	-	-	-	-	-	-	1.92	-	0.95	-	-

8.5 Attainment of Program Outcomes from first year courses (20)

8.5.1 Indicate results of evaluation of ezch relevant PO and/ or PSO, if applicable (15)

Total Marks 20.00

Institute Marks: 15.00

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Engineering Mathematics-I	1.45	0.72	0.19	0.19	0.19	0	0	0	0	0	0	0.72
Engineering Physics-I	1.53	1.09	0.65	0	0	0	0	0	0	0	0	0.98
Engineering Chemistry-I	0.84	0	0.84	0	0.84	0	0	0	0	0	0	1.51
Engineering Mechanics	1.27	0.63	0.63	0.63	0	0	0	0	0	0.63	0	0
Basic Electrical Engineering	1.46	0.73	0	0	0	0	0	0	0	0	0	0
Engineering Mechanics Lab	1.43	0.71	0.71	0.71	0	0	0	0	0	0.71	0	0
Basic Electrical Engineering Lab	1.99	1.99	0	0	0	0	0	0.99	2.99	0	0	0
Basic WorkShop Practice-I	1.99	1.44	0.89	0	1.81	1.81	0	0.89	0	1.81	0	1.44
Engineering Mathematics-II	1.32	0.62	0.39	0.39	0.39	0	0	0	0	0	0	0.62
Engineering Physics-II	1.29	0.93	0	0	0	0	0	0	1.40	0	0	0.82
Engineering Chemistry-II	1.25	1.30	0.94	0	0	2.36	2.09	0	0	0	0	0.94
Engineering Graphics	0.62	0	0	0	0	0	0	0	0	0.62	0	0
C Programming	2.38	1.39	0.83	1.66	1.53	0	0	0	0	0	0	1.16
Professional Communication and Ethics-I	0	0	0	0	0	0	0	0.66	0.63	0.64	0	0.67
Engineering Graphics Lab	0.61	0	0	0	0.61	0	0	0	0	1.23	0	0
Basic WorkShop Practice-II	1.92	1.92	0.95	0	0	0	0	0	0	1.92	0	0.95

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	1.42	1.12	0.70	0.72	0.90	2.08	2.09	0.85	1.67	1.08	0	0.98
CO Attainment	1.42	1.12	0.70	0.72	0.90	2.08	2.09	0.85	1.67	1.08	0	0.98

PSOs Attainment:

Course	PSO1	PSO2
C Programming	1.66	0.83
Professional Communication and Ethics-I	0.65	0

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	1.16	0.83
CO Attainment	1.16	0.83

 $\textbf{8.5.2 Actions taken based on the results of evaluation of relevant POs} \ (5)$

Institute Marks: 5.00

POs Attainment Levels and Actions for Improvement- (2022-23)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineerin	ng Knowledge		
PO 1	1.42	1.42	Close to target level 2. Need of extra practice session 3. Need of awareness of latest technologies 4. Opportunity to perform
	cts 2. Seminars are to be arrange		onduct tutorials to motivate students to improve their understanding in basic dustry experts to give our view of latest technology & innovation. 3. Provide opportunity
PO 2 : Problem A	nalysis		
PO 2	1.19	1.12	Close to target level 2. Need of group activities 3. Special efforts on development of pre-requisite 4. Practice required to improve subject understanding
	activities to be conducted to enh	· · · · · · · · · · · · · · · · · · ·	etc. 2. Special classes to be conducted to revise prerequisite required for first year
PO 3 : Design/dev	velopment of Solutions		
PO 3	1.00	0.70	1.Efforts needed to improve 2.Need of self-study work for awareness of environment. 3.Need of student's involvement in social -cultural activities.
		wledge on environment safety and socie e in social and cultural activities.	ety welfare. 2. Assignments were given to make students to be aware of Pollution free
PO 4 : Conduct In	vestigations of Complex Prob	lems	
PO 4	1.22	0.72	1.Efforts needed to improve 2.Need of practice 3.Students are required to see technical exhibitions.
Actions: 1. Extra p	roblems are assigned to student	s and asked them to solve in tutorial cla	ss to facilitate deeper understanding of the subject. 2. Students were motivated to

PO 5: Modern Tool Usage

participate in project expo. 3. Encourage to participate in seminars and presentations

PO 5	1.06	0.89	1.Efforts needed to improve 2.Need of group activities 3. Exposure to ICT tools
A firm 4 Challet and a side of the first term in			

Actions: 1. Students were provide opportunities to participate in various technical events. 2. Conduct virtual classes and use ICT tools in classroom teachings

PO 6: The Engineer and Society

PO 6	1.55	2.09	1. Target Level attained		
A 11 A A					

Actions: 1. Awareness programmes were organized to inculcate public and society welfare. 2. Provided opportunities to the Students to join different activities on societal and health issues.

PO 7: Environment and Sustainability

PO 7	0.97	2.09	Efforts needed to improve 2. Need of awareness program for students 3. Imitative required for arranging activities related to environment.
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Actions: 1. Seminars are arranged on Environment related topics. 2. The activity like Tree Plantation organized to encourage the students for understanding the responsibility towards environment. Energy conservation is practised by the installation of LED tube light. 3. Need Arranging activities of Environment and Energy Conservation.

PO 8 : Ethics

PO 8 1.27 0.85	Efforts needed to improve 2. Initiatives to understand professional ethics. 3. Need of Extracurricular and co-curricular activities.
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Actions: 1. Initiatives are taken to understand and follow the professional ethics. 2. Opportunities provided to the students to participation in Co- Curricular activities and games and promote commitment to ethical principles and understanding of participation is more important than winning.

PO 9: Individual and Team Work

PO 9	1.53	1.67	1.Target Level attained	

Actions: 1. Students are provided opportunities to participate in Group activities as members or leader. 2. Presentations were assigned to students to make them get rid of communication barriers.

PO 10 : Communication

in composition of the property	PO 10 1.43 1.43 1.08 1.08 1.08 1.08
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Actions: 1. Real time situations were given to students to improve their fluency. 2. Students were asked to participate in various inter- collegiate meet events. 3. Students are seen to be weak in communication skills are advised to undergo relevant courses and are also referred to language lab for improving their communication skills.

PO 11 : Project Management and Finance

		I .	
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1 0 11	1-	1 -	I F

PO 12 : Life-long Learning

O 12 0.97 0.98	Vey close to target 2. Need of programme of Entrepreneurship awareness
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Actions: 1. Various programme are to be organized through Entrepreneurship Development Cell. 2. To provide opportunities to students to educate themselves about changing technological environment.

PSOs Attainment Levels and Actions for Improvement- (2022-23)

PSOs	Target Level	Attainment Level	Observations	
PSO 1 : An ability to apply the knowledge of computer engineering in the multidisciplinary fields and make IT enabled				

PSO 1	1.11	1.16	Target achieved 2. Opportunities of advance learning 3. Need of Industry Visit	
Actions: 1. Students were provided opportunities to do advanced level online courses. 2. Students underwent Industrial visits.				

PSO 2 : An ability to solve complex computer engineering problems using latest technical tools with analytical skills for achieving optimized solutions to encourage research.

PSO 2	1.46	0.83	1.Efforts needed to improve 2. Need of hands-on training 3. Need to learn special courses to learn and enhance analytical skills.
Actions: 1. Hands on training were provided to the students. 2. Organize seminars on programming languages. 3. Encourage students to do NPTEL courses.			

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

9.1 Mentoring system to help at individual level (5)

Total Marks 5.00

Institute Marks: 5.00

As stated in First Year Engineering, revised syllabus, University of Mumbai, Rev 2019, C scheme, circular No UG/65 of 2019-20, following revised protocols for student
mentoring will be maintained with effect from current semester of academic year 2020-21.

Mentoring Guidelines (As per First Year Engineering, revised syllabus, University of Mumbai, Rev 2019, C scheme, circular No UG/65 of 2019-20):

Objective: Faculty members as Mentors must keep in mind the students' best interests, abilities, skills and talents, by guiding them to realize their best potential.

Operating procedure:

Allocation of mentees to faculty members by the mentor coordinator / HOD at the beginning of the academic year.

Number of Faculty Mentors : All Faculty Members

Number of Students per mentor : 20

Frequency of Mentoring : Need based, in addition to helping the students at any time on individual basis, providing personal mentoring and Professional quidance/career advancement.

Procedure for allocation:

- The Applied Sciences & Humanities department faculty will mentor first-year students.
- The records of mentees, updated in all respects will be handed over to the respective departments by the basic science department at the end of 2 semesters.
- The mentors should be aware of the strengths and weaknesses of the mentees.
- Mentors should bring to the notice of the head of the department in case of any issues/problems.
- Mentors should regularly communicate parents regarding their wards academic performance. Regular meeting will be held between the head of the department and the
 mentors to assess the progress.
- · The mentors can discuss the issues related to their mentees.
- · Mentoring will be a parameter in evaluating a faculty members performance in a year.

Mentoring process

Mentoring is for overall development of the student. Counselling books are maintained by faculty where in all details of the students of his/her group is recorded. The same details are maintained in the counselling book of each student:

- · Personal Information.
- · Mentoring Regularity of the students.
- · Monitoring Performance of the students.
- Personal Counselling for Career Guidance
- · The parents of poorly performing students are informed through SMS and call.
- · Students are encouraged to participate in technical events.

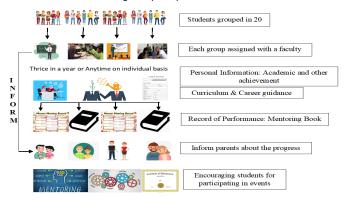


FIG: CHART OF MENTORING PROCESS

By Implementing mentoring system in the Institute the following parameters are improved

Efficacy of mentoring system

Sr. No.	Parameters	Outcomes
1.	Regularization of Student Attendance	Enhanced learning process
2.	Academic Performance	Intellectual Curiosity
3.	Involvement of students in Co-curricular activities and Extra-Curricular Activities	Team Building, Effective Communication and Leadership Skills
4.	Guidance towards Self learning	More number of students enrolled for certifications
5.	Placements guidance	Enhanced Placements
6.	Counseling students towards overall well being	Improved self-confidence, self-esteem and holistic development
7.	Extended support to peer related issues in consultation with parents	Overcoming negative behavioural traits

Case Study: Bright student

Name of Student : Saksham Gurbhele, B.E. Sem: VII (2023-2024) Roll No: 763

Faculty Mentor : Dr. Sunil Wankhade

Abstract: Mentoring to the student and supportive interventions.

Mr. Saksham Gurbhele has admitted in First Year 2020-21. He was an average student with an average grade points and having less attendance in the classes. Dr. Sunil Wankhade is the mentor of Mr. Saksham since Semester-III. Mentor guided by conducting regular meetings and counselling him. There is lot of improvement in the grade points in the later examinations and having good attendance in the classes. Mentor helped him in writing a paper fin the International Conference., Publication fees is sanctioned from the principal and paper is published in the International Journal.

Due to an extra efforts and support from IT Department, Saksham has got the Research Intern for the duration of 1 Year at the prestigious Tata Institute of Fundamental Research (TIFR), Coloba, Mumbai, and 3 Months project under Dr. K. V. Shrinivasan, TIFR Scientist"

Details of Projects:

Project Title: "Integrated ML driven ECR ion source real time monitoring and lab view integration for precise energy generation" under the guidance of Mr. K.V. Tulasiram, TIFR.

Project Title: "Integrated Monitoring and alarms interface for enhance efficiency and safety in Liquid Nitrogen Plant at LTF (Low Temperature Facility), under the Guidance of Dr. K. V. Shrinivasan, TIFR Scientist"

Details of Paper Publication:

Sunil Wankhade, Saksham Gurbhele (2023), "Smart Door Lock System Using Blockchain Based on Solana Technology", International Journal of Engineering Applied Sciences and Technology, 2023, Vol. 8, Issue 03, ISSN No. 2455-2143, Pages 85-88.

Impact analysis: Observation: Good academic result, attendance improvement and actively representing in co-curricular activities. Paper publication in International Journal.

Case Study: PWD student:

Student Name : Aashil Sonal Umralia , Roll no.: B-558, Year :SE(2022-2023)

Faculty Mentor : Prof.Shivani Kuduple

Supporting a Second-Year Engineering Special Case Student with Cochlear Implant and Slow Learning Ability. Navigating Challenges: Cochlear Implant, Slow Learning, and Supportive Interventions

Aashils journey is examined with emphasis on the corrective actions taken by mentoring faculty and subject faculties to foster an inclusive educational experience. Subject faculties implement consistent practices, ensuring accessible study materials and accommodations for Aashils unique learning needs. Recognizing Aashils slow learning ability, an Individualized Learning Plan (ILP) was crafted. Subject faculties integrate ILP accommodations, offering extended time for assessments and diverse methods tailored to Aashils learning pace. This case underscores the importance of collaboration, individualized approaches, and proactive measures to support PWD students like Aashil in their academic pursuits.

The outcome observed was improvement in his academic performance.

CASE STUDY: Encouragement for Sports

Student Name : Priyanshu Naik, Year: TE(2023-24),Roll No.: A-566

Faculty Mentor : Prof. Jignesh Patil

During mentoring session, student who is academically good, shared insights into the colleges standard schedule and how it hindered his full commitment to cricket. The mentor advised him to join a club or engage in competitions with other teams. Despite his cricket-related self-doubt, reassurance was given that by enjoying the game without worrying about career or other issues, success in both academics and cricket could be achieved. He signed up to play for the team at the M.I.G. Cricket Club Kherwadi Bandra East Along with academics; he went the extra mile to integrate studies with his cricket endeavors.

CASE STUDY: Academic and Co-curricular activities

Students Name : Sanualah Ansari Z.

Faculty Mentor : Dr. Amol L. Mangrulkar, AY: 2022 – 23

By mentoring Sanualah, he improves his academic perforce progressively his pointer score improves as

- Sem 3: 9.83, Sem 4: 9.91, Sem 5: 9.73
- Sem 6: 9.13, Sen 7: 8.73, Sem 8: 9.55
- Motivate him to do extra co-curricular activities guide him along the way.
- He was elected as ASME-RGIT Vice Chairperson and lead the team in various national level compaction and own the first award in E-Cyclothon23 and AIR5 in 2023-34 E Fest HPVC Chennai.

He also got selected in off campus interview with his developed skill doing well. Company Name: Prudence Analytics and Software Solution P Ltd, Vidyavihar, Mumbai Role: Jr Software Engineer.

CASE STUDY: Internships

Few students of EXTC:

Faculty Mentor : Prof. Manisha Ahirrao

Few Students were guided by the faculty for internship which benefitted them to do the final year project in the same topic; below is the response from the students. "We are writing this to express our gratitude for Professor Manisha Ahirrao guidance in suggesting relevant internship opportunity for us. Her support in connecting our academic studies with practical experiences is invaluable. These internships align perfectly with our coursework and will undoubtedly enhance our skills for future endeavors. Skills we learn are as follows gained expertise in Fingerprint and Handwriting analysis, solved cases related to document authenticity. Learned about counterfeit detection, data recovery using tools like Xiao Stenography, FTK Imager, and more."

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

Total Marks 10.00

Institute Marks: 10.00

Feedback collected for all courses: YES

The institution is proactive for continuous improvement. To achieve this, it follows a 360° feedback system from Students, Alumni, Parents, and Industry. Student Feedback is very important factor. Feedback system is available and students are asked to give their confidential feedback for subjects taught to them at the end of the semester. The feedback of alumni, Parents, and industry person is also recorded time to time to improve the methodology of teaching and learning.

Student feedback is collected in both odd and even semester from IQAC for all the courses. The feedback is collected, analyzed and communicated to all faculty members once in a Semester through Principal & HOD.

Specify the feedback collection process:

- Twenty regular and sincere students from each class are selected and feedback form for all subjects given to them and are advised to give their feedback. These forms are collected by teachers assigned for the same.
- As a part of Early Stage feedback, the Head of Department during semester go to each and every class and get the students feedback in terms of administrative affairs, library, laboratories, and academics and of teachers.

Schedule of Feedback Collection

1. Early stage Feedback : After 15 to 20 days from commencement of classes

2. End Semester Feedback : At the end of semester

The faculty members with prescribed norms in feedback are counselled by the HOD, Principal, taking corrective measures if required. The indices used for measuring teaching and learning through Student Feedback are as follows:

- · How does the teacher explain the subject?
- How much opportunity does the teacher give for questions & discussions?
- · Have you understood about the course objectives & course outcomes?
- To what extent do you feel that the outcomes are achieved after learning the subject?
- · How much of the subject material in the syllabus does the teacher completed?
- How much of the class time does the teacher use for teaching the subject (as against deviating to irrelevant or general matters)?
- To What extent was the syllabus covered before the Mid Term-I & II?
- When does the teacher return the corrected Mid Term Test Paper?
- · How is the audibility of the teacher in the class?
- · How is the language clarity of the teacher in the class?
- . Comment on the teacher control and command over the class?
- · What is the attitude of the teacher towards you?
- Does the teacher victimize and do favoritism to some students?
- · How punctual is the teacher to the classes?

Percentage of students participating:

For final feedback 20 regular and sincere students from each class is selected and advised them to give feedback. In case of informal feedback, all students of every class are involved.

How are the comments used?

The comments are observed positively while planning the teaching-learning and evaluation activities. The comments do encourage the good teachers and provide a chance for improvement for the ineffective teachers. The feedback also motivates the staff to inculcate the habit of learning on a continuous basis to be effective teachers.

Basis of reward/corrective measures, if any,

The faculties with consistence good feedback have been given promotion. They are encouraged and sponsored to participate in national and international conferences. Faculties are sponsored for PG and Ph.D. programs at reputed institutions.

Faculty members promoted under the Career Advancement Scheme:

Name of Faculty Member	Research Program	
Prof. Nilesh Rathod	Computer Engineering, RGIT	
Prof. Anushree Deshmukh	Computer Engineering, RGIT	
Prof. Akush Hutke	Computer Engineering, RGIT	
Prof Surendra Sutar	Electronics & Telecommunication Engg., RGIT	
Prof. Premdas Pawar	Electronics & Telecommunication Engg, RGIT	
Prof. Shripad Kulkarni	Electronics & Telecommunication Engg, TSEC, Mumbai	
Prof. Manisha Ahirrao	Electronics & Telecommunication Engg. SPPU	
Prof. Bhushan Patil	Computer Engineering, RGIT	
Prof. Sumitra Sadhukhan	Computer Engineering, Indian Institute of Technology, Bombay	
Prof. Dilip Dalgade	Computer Engineering, PAHER, Udaipur	
Prof. Savita Lade	Computer Engineering, SANDIP University, Nasik	
Dr. Ashwini Gotmare	Mechanical Engineering, RGIT	

Print

Prof. Mukund Valse	Mechanical Engineering, RGIT
Prof. Nilesh Shahapure	Mechanical Engineering, VJTI
Prof. Nikhil V.S.	Mechanical Engineering, Kerala

Sr. No.	Name of Faculty	Promoted to Next Level	
1.	Dr. S. D. Deshmukh	Professor	
2.	Dr. Rajesh V. Kale	Professor	
3.	Dr. Poonam Sonar	Assistant Professor to Associate Professor	
4.	Dr. Kishor Sawarkar	Assistant Professor to Associate Professor	
5.	Mr. Premdas Pawar	Next AGP Level	
6.	Prof. Ankush Hutke	Next AGP Level	
7.	Dr. Jyoti Deshmukh	Associate Professor	
8.	Dr. Sharmila Gaikwad	Associate Professor	
9.	Dr. Yogaraj Patil	Next AGP Level	
10.	Dr. Kishor Chaudhari	Next AGP Level	

Faculty members sponsored for PhD (Enrolled at our Institute/ other institute):

Name of Faculty Member	Research Program	
Prof. Nilesh Rathod	Computer Engineering, RGIT	
Prof. Anushree Deshmukh	Computer Engineering, RGIT	
Prof. Akush Hutke	Computer Engineering, RGIT	
Prof Surendra Sutar	Electronics & Telecommunication Engg., RGIT	
Prof. Premdas Pawar	Electronics & Telecommunication Engg, RGIT	
Prof. Shripad Kulkarni	Electronics & Telecommunication Engg, TSEC, Mumbai	
Prof. Manisha Ahirrao	Electronics & Telecommunication Engg. SPPU	
Prof. Bhushan Patil	Computer Engineering, RGIT	
Prof. Sumitra Sadhukhan	Computer Engineering, Indian Institute of Technology, Bombay	
Prof. Dilip Dalgade	Computer Engineering, PAHER, Udaipur	
Prof. Savita Lade	Computer Engineering, SANDIP University, Nasik	
Dr. Ashwini Gotmare	Mechanical Engineering, RGIT	
Prof. Mukund Valse	Mechanical Engineering, RGIT	
Prof. Nilesh Shahapure	Mechanical Engineering, VJTI	
Prof. Nikhil V.S.	Mechanical Engineering, Kerala	

Financial Aid for Conferences / Ph.D course work / Paper publication

Name of Faculty Member	Sponsored for
Prof.Nilesh Rathod	PhD Course Work: Cyber sycurity and network
Prof.Anushree Deshmukh	PhD Course Work: CS 725 :Foundations of Machine Learning
Prof. Sunil Wankhade	International Conference (online) on Data Science And Management – ICDSE-2021
Prof.Nilesh Rathod	International Conference on Advanced Communication System (CACCS)
Prof.Ankush Hutke	IEEE International Conference on Advanced Computing Technologies and Application-2023
Dr.Swati Narwane	STTP on Exhilarating Socio-Human Life Using Deep Learning

STTP on Exhilarating Socio-Human Life Using Deep Learning	
FDP on DevOps.	
FDP on Block chain and DLT	
Smart Door lock system using blockchain based on salona technology	
Analysis of Stack Market and its forecasting	
Academic Leadership Programme	
Applications of Al & ML in Signal Processing and Communications	
1) NPTEL on Fuzzy logic and artificial neural network	
2) NPTEL on Introductory Neuroscience and Neuro Instrumentation	
Course on Industrial Robotics at Autofina Robotics Factory	
Course on Industrial Robotics at Autofina Robotics Factory	
NPTEL on Introduction to Wireless and Cellular Communication	
NITTT Course on Creative Problem Solving, Innovation and Meaningful R&D	
Development and Diagnosis of Autism Spectrum Disorder (ASD) Screening Leveraging Machine Learning Techniques.	
NPTEL on Research Methodology	
Patent	
NPTEL	
NPTEL	
Patent on Auxiliary Flap Turbocharger (AFT) for Automobile Applications	
Patent on Design of Blended Wing Airplane	
International Conference on Future Technologies in Manufacturing, Automation, Design and Energy, NIT Puducherry, Karaikal	
International Conference on Vibration Engineering, Science, and Technology (INVEST 22)	
International Conference on Vibration Engineering, Science, and Technology (INVEST 22)	

9.3 Feedback on facilities (5) Total Marks 5.00

Institute Marks: 5.00

Facilities assessment is based on student feedback, its analysis and thereafter subsequently corrective action is taken. Below mentioned questionnaire is intended to collect information related to students satisfaction towards facilities and services provided with in the college campus. Students are suggested to provide feedback for the following parameters on a qualitative scale ranging from 1 to 5.

Student feedback form on facilities

Students should read each point carefully and award points as per the scale given below against each item. The scale is 1-5.

Not Satisfactory-1, Satisfactory-2, Good -3, Very Good-4, Excellent-5

The feedback is collected from the students through Google forms and Hard copy. The corrective measures will be taken based on the student feedback on facilities.

Process followed in feedback:

- 1. Feedback collection process
- 2. Feedback analysis and report generation
- 3. Plan to Corrective measures
- 4. Implementation of plan of action

Feedback collection process:

- 1. Prepare Feedback question on all facilities provided by the college with the approval of head of the institute
- 2. Generate computerized Feedback forms and share to the students
- 3. The Administrative department receives feedback
- 4. Analyze the feedback using the Metrics as 5-Excellent 4-Very good 3-Good 2-Satisfactory 1- Not Satisfactory
- 5. Additional question given in feedback for the students to share any view points as their perspective

Composition of Feedback Questions:

The feedback question are prepared by considering the following Heads:

- · Are the classrooms / Laboratories clean and well-maintained?
- · Is Internet facility available in the department?
- · Is available reading space in library satisfactory?
- Are the library staff cooperative and helpful?
- Do you have adequate facilities for Teaching and Learning (Content and Methods)
- Do you have adequate facilities for Placement and Training?
- Do you have adequate facilities for Sports and Games?
- Are your Grievances/problems redressed/solved well in time?
- · Rate your satisfaction level on canteen facilities.
- Is Clean drinking water available in the department and the campus?
- Are Toilets/washrooms hygienic and properly maintained?
- · Are the office staff in the department helpful?
- · Are the office and account staff helpful?

Students Feedback Analysis

The following points emerged from the analysis of students' feedback survey:

- The feedback given by the students is consolidated and analyzed.
- · Most of the student are satisfied with the academic environs as well as the facilities available for pursuing their academic and research careers.
- · Majority of the students expressed happiness with the support rendered by the non-teaching and the library staff in their respective departments.
- · The Principal discussed the consolidated report with the Head of the department and prepared plan of action.
- Strengthening of extra-curricular activities and special sessions with industry experts has been requested.
- · All the department executes the plan as discussed.

Action Taken:

- The placement cell has been further strengthened by ensuring coordination of the Central Placement cell with the departmental cell.
- · Departments have initiated steps to conduct seminars /conferences on skill enhancement/extension and sport activities

9.4 Self-Learning (5) Total Marks 5.00

Institute Marks: 5.00



Fig: Self Learning

- The Institute has access to various e-books, journals and magazines which are available in the Institute Library to help students to explore and read about their areas of interest. (Institute is a member of National Digital Library)
- · This helps student to come up with new ideas and new techniques.
- · Faculty from time to time change adopt new ways in the course to enhance self-learning such as:
- · Presentation of seminars,
- · Industrial Training
- · Projects and Mini Projects
- · Skill based Laboratory
- Assignments
- · Dissertation in some courses are compulsory as a part of their course requirements.
- The institute has arranged certification courses in Computer Networking, Pro-E, PLC, SCADA, Ansys etc. in association with D-Link India, PTC, Siemens and RCF respectively for Computer Engineering, Mechanical Engineering., Instrumentation Engineering and Electronics and Telecommunication Engg.
- Value added training has been arranged in Siemens India Ltd, Mumbai, L & T, Madh, Mumbai and Rastriya Chemicals and Fertilizers Ltd., Mumbai, CEMS Shipping Corporation of India, Powai, Mumbai.
- · Departmental Alumni committee is organizing the Alumni Speak Series for career guidance and encouragement for higher studies.
- The institute organizes seminars, expert lectures on various emergent areas of social, economic, political and engineering and technology and other sciences. The various students' association bodies (CESS, CSI, Code-cell, ABIT, MESA, ISTE, IETE, IEEE, ASME, ISHRAE, SAE, IIIE, AERORGIT, ROBOTICS, ISA, SWE, UBA and SOCH etc) do organize seminars and guest lecturers as a tool to learning beyond the syllabus.
- · Student professional bodies arrange Hands on Training on Modern tools which are helpful for participation at National and International Level competitions.
- The students are also encouraged to get acquainted with emerging trends and tools in the various areas of engineering and technology through seminars and workshops by eminent professionals and technocrats.
- At the same time, the institute also focuses on developing students' social quotient and communication quotient by arranging training programmes and lectures on the
 various social and cultural topics.
- As a result, our students not only show interest in mere technological and scientific advancements, but they also give their valuable time for various social causes by
 arranging clean up drives, blood donation camps, computer literacy and awareness camps for the poor and needy students.
- Apart from the above, the college actively promotes self-learning through the resources procured through NPTEL and other Audio-Video content. In each and every
 department, for 1 to 2 subjects similar to syllabus given by University assignments are considering as a NPTEL course assignment. For the solution of these assignments
 are listening the video lectures of respective NPTEL course and solving the assignments.

NPTEL Assignments	Total number of students
2023-24	22
2022-23	18
2021-22	7

· Additional Facility for Self Learning:

Facility Name	Details	Reason(s) for creating facility Areas	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
	It is equipped with Computer Systems, Internet Connection,	To Teach Lessoning,	English &	
		Speaking,	Communication Skills	PO10, PO12
	[& Writing Skills		

	Equipped with	For faculties &	Inculcate self-learning	
	Computer Systems,		Skills and	PO10, PO12,
Internet Lab	LAN connectivity &		communication	
	Ethernet/WiFi	their knowledge	skills	

RGIT's LEAD Club, in association with Resolt launched a full course, wherein students learnt German (Complete A1 Level) with live interactive online sessions, doubt solving session, mock tests along with notes and study material. From 5th February, 2022 and proceeded further for a total duration of 40+ hours over the weekend. The workshop witnesses the participation of 20 students.

Google Cloud Carrier Readiness Programme:

Sr.No	Student Name	Academic Year	Google Cloud Skills Boost Profile URL	TRACK NAME
1	Vaishnavi Mishra	IT-FINAL Year	https://www.cloudskillsboost.google/public_profiles/beec3f88-62b9-4897-b76f-d84b2ac944ed (https://www.cloudskillsboost.google/public_profiles/beec3f88-62b9-4897-b76f-d84b2ac944ed)	Data Analyst (DA) Track
2	Rushikesh Shelar	COMP-Thired Year	https://www.cloudskillsboost.google/public_profiles/a7376b0a-f293-41a9-89b3-ff3869f2ff08	Data Analyst (DA) Track
3	Namrata Mahesh Yeole	COMP- Second Year	https://www.cloudskillsboost.google/public_profiles/88eab2e4-e52e-4b5d-a2ee-00e9b985c98c (https://www.cloudskillsboost.google/public_profiles/88eab2e4-e52e-4b5d-a2ee-00e9b985c98c)	Data Analyst (DA) Track
4	Daksha Sanjay Narwadiya	Second Year	https://www.cloudskillsboost.google/public_profiles/f3695b76-da96- 4d97-9509-a3a8180d3732	Associate Cloud Engineer (ACE) Track
5	Vijetha Upendra Kamath	Fourth Year	https://www.cloudskillsboost.google/public_profiles/a8cf7729-c5cc-4bea-9817-5e2de667e193	Associate Cloud Engineer (ACE) Track
6	AHIRE NAMEET SUDAM	COMP- FOURTH Year	https://www.cloudskillsboost.google/public_profiles/00c868fa-8333- 4b27-9df1-51091eb392a6	Associate Cloud Engineer (ACE) Track
7	Fletcher Fernandes	COMP-Fourth Year	https://www.cloudskillsboost.google/public_profiles/b1659386-0e97- 497c-a431-f7d4ccd617cf	Associate Cloud Engineer (ACE) Track
8	Tushhar Barkur	COMP-Fourth Year	https://www.cloudskillsboost.google/public_profiles/299d8c2d-40d1-44c5-b11c-681092ed2b0f	Associate Cloud Engineer (ACE) Track
9	Abhishek Manojkumar Pillai	COMP-Fourth Year	https://www.cloudskillsboost.google/public_profiles/a0cb8306-1c07- 4c5b-8e38-014ba4246554	Cloud Digital Leader (CDL) Track
10	KHAN OBAIDUR REHMAN	COMP-Fourth Year	https://www.cloudskillsboost.google/public_profiles/8f82b26a-ea9c- 4654-a506-330412ab9023	Cloud Digital Leader (CDL) Track
11	1	PASSOUT	https://www.cloudskillsboost.google/public_profiles/88eab2e4-e52e-4b5d-a2ee-00e8b985c98c (https://www.cloudskillsboost.google/public_profiles/88eab2e4-e52e-4b5d-a2ee-00e8b985c98c)	GCR FACILATOR
12	1	PASSOUT	https://www.cloudskillsboost.google/public_profiles/bcd102ae-472d-4ceb-889f-bec03b3a8c2a (https://www.cloudskillsboost.google/public_profiles/bcd102ae-472d-4ceb-889f-bec03b3a8c2a)	GCR FACILATOR

Utilization and its effectiveness

The above facilities help students to present technical papers in conferences, publish papers in journals, take-up projects and participate in competitions/exhibitions and complete online certification courses.

- The overall aim of this review is to evaluate the effectiveness of self-directed learning on the professional development of students.
- Students are motivated to improve their initiation in reaching their goals.
- Students are able to scan through the reading material available to them.
- · Many of the needs of students are best met by learning process. The students are encouraged to learn by themselves for their present and future needs.

• Students are able to do better in Placement drives and get placed in suitable companies.

9.5 Career Guidance, Training, Placement (10)

Total Marks 10.00

Institute Marks: 10.00

Career Guidance

- The institute encourages students for taking up higher studies in the premier institutes in India and abroad. The students are given information about various career trends
 and opportunities of higher learning through counseling by the staff of the institute and various other professionals.
- The institute organizes guest lectures and workshops by professional career counselors and consultees for enabling students to understand the different career options in their respective fields.
- This career counseling has largely benefited the students in choosing proper fields of higher education. Moreover, there is gradual increase in the percentage of students
 opting for the top institutes in India and foreign countries. More and more students are qualifying for the different entrance tests with very high score.
- In the year 2021, 2022 and 2023 nearly 100 students are appearing for competitive exams like GATE, and 40% of them have qualified and are pursuing higher studies in Indian Universities. Nearly 10% students have pursuing higher studies in Indian and foreign Universities.
- · Department internship co-ordinator helps and guides the students to get internships in various industries

Training and Placement Cell

- The Training and Placemen t cell (TPC) ensures the future of the students in the dynamic & vibrant professional job market. This cell ensures that the efforts of the students throughout the course bear fruits at the end. The training and placement cell is headed by Training and Placement Officer.
- The TPO runs all the training and placement activities with the help of different committees constituted for attracting the pool of job opportunities for our students. There are more than fifty companies recruiting the students. The Training and Placement Cell organizes expert talks and training programmes for developing the students' Soft Skills and employability skills.

Placement Policy

Placement Policy for Student

- · Students opting for campus recruitment must fill the profile details by registering the Google Form.
 - They further need to upload CV with correct & verifiable information.
 - Training and placement cell will not be responsible for any mismanagement/miscommunication due to incomplete profiles or non-submission of the necessary documents.
- Students opting for campus placement need to enroll on company's available campus virtual platforms & should register themselves for the competitions/contests
 happening at company's campus for the various domains/roles applicable to registered students.
- · Students are requested to refer emails, Departmental and Training & Placement Cell notice boards for campus training and placement information.
- They are also requested to check their emails for the same during vacations/holidays.
- · Students are advised not to change their Mobile Number and Email Id shared with placement cell or companies.
- Students have to register for each campus placement drive. It is compulsory for registered students to appear all selection rounds of the visiting company. Any one of the following actions can be taken against defaulters:
- · Students have to pay the fine of Rs.500 to Accounts Department
- · Their journal & project submissions will be denied
- · They will be treated as defaulter and will not be allowed for further campus placement opportunities.
- · Students selected in any company will not be allowed to appear for next campus drive.
- Placed students can be considered for one more campus placement opportunity, only in case where second company offers 40% salary hike with respect to the offer already made to them by first company.
- Students must have their College ID, Updated printed CV, attested Xerox copies of all academic mark sheets, project certificates etc. with them during every campus recruitment program.
- Students should appear for the interviews in formal dress code.(No Jeans and T Shirts)
- Students opting for higher studies have to fill higher studies record format. These students will not be allowed to sit for the campus recruitment program, if found so, then he/she will be liable for suitable action.
- Students once selected by any company must join the company, if not join, then following actions will be taken against the student:-
- Institute will forfeit the final marksheet / institute leaving certificate / LOR / Transcript.
- Such students need to pay the fine Rs.5000/-
- Selected students must submit their signed & scanned offer letter to T&P Cell.
- Students are advised not to pay any amount or not to keep original documents with companies, before joining them. In case, such securities are kept; college authorities will
 not be responsible for any further consequences.
- Students should abide with all the rules and regulations of the company as well as the institute.

Placement policy for industry

- The training and placement cell (T & P) will invite the prospective industries for the recruitment of final year students from August / September of every academic calendar.
- As per the criteria and parameter of the company, T& P cell of the institute will share the detailed database of the respective final year students opting for placement, along
 with mutually convenient date for the campus recruitment drive.
- On the receipt of detailed campus drive (date of campus event, job description, stipend and salary details, eligible students, eligibility criteria, required domain knowledge, no. of requirements, selection process, requirement of infrastructure for conducting campus drive, travel plan, details of visiting officials & other details (if any)), T& P cell will inform the respective student through official notice and ask them to register with T& P cell in person within a stipulated time frame.
- As per the given details by the employer, the institute will make necessary arrangements for campus drive.
- Placement drive starts with pre-placement talk (PPT) conducted in seminar hall. HR gives PPT and share information about company profile, job profile, package, about selection process to students.
- After PPT, online/offline test is conducted in computational labs/class rooms.
- Cabins are provided to experts for technical and HR interviews.
- · At the end of all rounds, HR either declared the result on the same day or result will be shared with TPO through Email.

Training Activities

• Conduction of soft skill Training Program for T.E. and B.E. students. This includes communication skill, Group Discussion & Interview preparation.

• Conduction of Aptitude Test for English, Logical Reasoning, Quantitative Analysis etc. through assignments & practice test papers.

- Arranging the expert talks on spiritual, personality development, etc.
- · Conduction of online test for students to assess their aptitude & technical skills.
- Arranging seminar & counselling of students about careers & future education.
- Organising Yoga camps for students.
- In addition, these practices are highly encouraged to make learning more student-centric. Performance in these activities gives an excellent opportunity to students to improve upon their knowledge level. Technical fests, contests, debates, etc. are arranged and organized mostly by the students themselves so that student-centered learning exercises are developed both at the department and institute level. This improves the qualities such as leadership, decision making, self-learning from experience.

Training program by Training and Placement Office:

Year	BE	Name of program	No. of students
2018-19	BE Final	Campus Credential Soft skill training	37
2019-20	BE Final	Campus Credential Soft skill training	5
2021-22	BE Final	Campus Credential Soft skill training	15

Record of Internships of last 4 years:

Year	Branch	Total No. of students
	Computer Engg.	93
	Information Technology	23
2019 – 20	Electronics & Telecommunication Engg.	62
	Mechanical Engg.	74
	Instrumentation Engg.	12
	Computer Engg.	98
	Information Technology	19
2020 – 21	Electronics & Telecommunication Engg.	83
	Mechanical Engg.	70
	Instrumentation Engg.	14
	Computer Engg.	56
	Information Technology	62
2021 – 22	Electronics & Telecommunication Engg.	37
	Mechanical Engg.	53
	Instrumentation Engg.	10
	Computer Engg.	24
	Information Technology	15
2022 – 23	Electronics & Telecommunication Engg.	23
	Mechanical Engg.	97
	Instrumentation Engg.	2

9.6 Entrepreneurship Cell (5) Total Marks 5.00

Institute Marks: 5.00

Entrepreneurship cell is formed in our institute. This cell arranged lectures and entrepreneurship of renowned personality. Various talk on same have been arranged regularly.

In our institute entrepreneurship development cell is organizing workshop on entrepreneurship. Through entrepreneurship development cell interaction with the entrepreneur is organized. Through entrepreneurship development cell competitions are arranged for new innovative business ideas. Entrepreneurship cell and incubation facility.

The entrepreneurship Development Cell has been organizing workshops and seminar for the benefit of students. The EDC Cell invites speaker, Entrepreneurs to share their experiences and also invites professionals from Industries, Federation of E-Commerce to motivate and educate students on Entrepreneurship.

Incubation Cell, RGIT

Rajiv Gandhi Institute of Technology, Mumbai has started the "Incubation Cell, RGIT" for nurturing and overseeing innovation and entrepreneurship. Incubation Cell, RGIT is a space for new age entrepreneurs and young minds to transform their innovative ideas into viable business propositions. It is a platform for nurturing, encouraging and developing innovation and entrepreneurial skills among our students. Incubation Cell, RGIT provides students a chance to make their business commercially viable, before they reach out to the market.

VISION:

"Our vision is to harness the entrepreneurial potential and ambitions of students, to help them start their own ventures."

- 1. Facilitating budding entrepreneurs to start a business venture with minimum risks.
- 2. Ensuring that incubates have access to technological assistance which will be generated through mentors with multidisciplinary expertise.
- 3. Encourage young enthusiasts with creative pursuits with an inherent zeal to be entrepreneurs.

MISSION:

The mission of Incubation Cell, RGIT is to nurture and empower the next generation entrepreneurs to serve the local problems and global problems, through creative and innovative solutions.

OBJECTIVES:

- 1. To create jobs, wealth and businesses aligning with national priorities
- 2. To promote new technology/knowledge/innovation based startups.
- 3. To provide opportunity to students to exhibit their products through competitions, exhibitions, etc.
- 4. To provide a platform for swift commercialization of products and services developed by the students.
- 5. To build a vibrant startup ecosystem, by establishing a network between academia, financial institution, industries and other institutions.
- 6. To provide cost effective, value added services to startups like mentoring, legal, technical, product development and testing, intellectual property related services.
- 7. To equip them with necessary skills required for entrepreneurship.
- 8. To promote creative thinking and an entrepreneurial mindset and skills among the students.
- 9. To promote innovations and help convert them into market-acceptable products and services.

ACTIVITIES:

The Incubation Cell, RGIT activities involves:

- 1. Inspiring and motivating students to start their own venture by sharing success stories of entrepreneurial ventures of alumni.
- 2. Provide training to students to learn the various dimensions of entrepreneurship and business operations.
- 3. Conducting seminars and workshops in related topics.
- 4. Tie-up with various organizations to help students build their prototypes and models.
- 5. Providing critical evaluation of students' ideas and projects by faculty.
- 6. Providing support in terms of working space and internet connectivity, mentor faculty.
- 7. To support the incubation of selected projects each year.
- 8. To facilitate the students to get internships through the companies, which are under incubation.
- 9. Assistance in company registration, GST registration, patent filing, etc.

Student Name	Mr. Niket Sarvaiya
Company Name	Picostone Technology Pvt ltd
Position in the company	Co-founder and COO (Chief Operating Officer)
What exactly you are doing :	At Picostone we engineer, design and manufacture devices that make your homes smarter and make your lives a little more convenient and comfortable.
Future goals	As of now we provide our products and services across 12 cities across the country, and have more than 5000 happy customers.

Student Name	Mr. Premnath Borkar		
Company Name	VPS Techub Private Limited		
Position in the company	Founder and CEO		
What exactly you are doing :	We are an automation focused startup. Started with healthcare automation and now working in canteen automation.		
Future goals	Expand in other sectors and make it big.		

Student Name Pulkit Poddar

Company Name : Reach and Teach Learning Solutions. Founder

Position in the company

Future goals

Future Goal

We are enhancing the digital footprints of educational What exactly you are doing :

institutions by leveraging technology, marketing & content.

We intend to be the single-point solution for all the digital

requirements (products & services) of educational institutes &

educators

Student Name : Mr. Abhishek Reddy

: 2022-23

Company Name : DEE VEE Engineering Works

Entrepreneur/Startup :Star-up Designation :Founder

: At our company we manufacture various precise engineering What exactly you are doing

products like gears, seals etc through injection molding process.Planing, Management, Maketing and sales etc

: As of now we provide our products and services across

across the country, and have more than 2000 happy customers. We intend to become one of the leading brands in precise engineering injection molding product, both in India and

globally.

Student Name : Mr. Saurabh Sahane

ΑY : 2021-22

Company Name : The Machine Learning Company (Start-up)

Entrepreneur/Startup :Star-up

Designation :CFO and Co-Founder

: The Machine Learning Company as a Incubate at COEPs What exactly you are doing Bhau Institute of Innovation, Entrepreneurship and Leadership

: The Machine Learning Company is a modern consulting firm **Future Goal**

that builds sustainable AI/ML applications enabling clients to

add an automation layer to their businesses.

Student Name : Mr. Mr. Harshal Shikhare

: 2021-22 ΑY

: Mandesi Agro **Company Name**

(Start-up)

Entrepreneur/Startup :Star-up

Designation :CEO and Co-Founder

: The Machine Learning Company as a Incubate at COEPs What exactly you are doing

Bhau Institute of Innovation, Entrepreneurship and Leadership

: The Machine Learning Company is a modern consulting firm **Future Goal** that builds sustainable AI/ML applications enabling clients to

add an automation layer to their businesses.

Student Name : Mr. Kanishk Parab & Mr Atharva Kantak

ΑY : 2019-20

Company Name : Vastra Shastra Ecommerce Pvt Ltd

Entrepreneur/Startup :Star-up

Future Goal

Designation :CEO and Co-Founder

What exactly you are doing : E- Commerce business on cloth and printing

: Aim to become do business at national level with more

varieties of clothing products targeting for young customer

between age of 12 to 32 years.

: Mr. Javed Khan . Mr. Sumit Kumbhar & **Student Name**

Mr Prathamesh Kadam

AY : 2019-20

: RoboRise Technologies Pvt. Ltd **Company Name**

Entrepreneur/Startup :Star-up

Designation :CEO and Co-Founder

What exactly you are doing

Future Goal

: Our role is to provide a wide spectrum of services right from Core designing, CAD modelling, Virtual Simulation, Electronics

Assembly to Software development.

: We design & set-up automated manufacturing & assembly line processes to increase the production capacity & reduce the lead time ensuring an end to end product development lifecycle right from the design, development to product launch. We focus on building state of the art smart solutions which would enable businesses to maximize their production metrics by saving costs while functioning with increased efficiency. be a part of staup India, and Make in India of govt initiative..mbly line

Student Name : Mr. Prasad Mastakar , Miss Dimple Bhanushali

product

ΑY : 2019-20

Company Name : The Cube partners

Entrepreneur/Startup : Star-up

Designation : CEO and Co-Founder

What exactly you are doing

: Our role is to provide a wide spectrum of services in

stationer items

Future Goal : Our target is to export quality stationery item.

Student Name : Mr. Abhishek Masurkar, Mr Yogesh Kudale

ΑY : 2018-19

Company Name : Taypro Private Limited

Entrepreneur/Startup :Star-up

:CEO and Co-Founder Designation

What exactly you are doing : Design, development and fabrication of solar panel cleaner

: Our target is to lead one of most successful solar panel **Future Goal** cleaner and be a part of staup india, and Make in India of govt

initiative.

Student Name : Mr. Chiraj Manuja

: 2018-19 ΑY

Company Name : BOT-O-BOT, New Mumbai

Entrepreneur/Startup : Startup Designation : Co-Founder

What exactly you are doing : Robotics games and education

Future Goal : To become leader in Robotics games and education.

Student Name SAYEED NABEEL AKHTAR

ΑY 2022

Detroids Pvt. Ltd. **Company Name** Entrepreneur Entrepreneur/Startup Designation Director

Leverage the capabilities of Machine Learning (ML) to bring What exactly you are doing

intelligent automation to your operations.

Future Goal Our ML algorithms dont just respond; they anticipate, adapt,

and deliver enhanced user experiences.

Student Name JATIN SINGH

Company Name MOTHERS MADE Pvt. Ltd.

Designation Co-founder

What exactly you are doing Specialize in creating high- quality, handmade soaps

Future Goal committed to providing our customers with the best possible

products.

Student Name NAMRATA JAISWAR

Company Name Apinnovate IT Consulting Service)

Designation Co-founder

What exactly you are doing

Future Goal

To design and deliver cost effective software solutions with excellent quality well within the timelines. We contribute to the growth of India to become the world-class destination of high technology. We help Startups and Enterprises harness the power of AI and Blockchain by universalizing high-tech

products and bring them into real business application.

To make a bold stance in the era of digital disruption with excellent consulting capabilities - addressing innovative approaches to technology transfer. We also aim to expand our knowledge and expertise in producing powerful new

developments by using AI and blockchain technology,

9.7 Co-curricular and Extra-curricular Activities (10)

Total Marks 10.00

Institute Marks: 10.00

activities such as NCC, NSS etc.)

The institute has a well-established SOCH forum which shows dedication and commitment for running several services for social and cultural welfare of public.

Institution has been selected as Participating Institute under Flagship Program Unnat Bharat Abhiyan (UBA) 2.0.

List of events organized by different Councils:

Sports Committee:

- · Athletics
- Cricket
- Foot ball
- Table Tennis
- Chess
- Carrom
- Badminton
- Volleyball
- Basketball
- Kabaddi
- Yoga

By Unnat Bharat Abhiyan (UBA - RGIT) and NSS Committee:

- Career Guidance For Civil Service Examinations (https://sites.google.com/view/ubacellrgit/events-activities/2019-2020#h.cyvdxibtj8rk)
- National Online Workshop (https://sites.google.com/view/ubacellrgit/events-activities/2019-2020#h.ah3zkxvnfayt) Gramin Vikas
- Covid-19 Awareness Activities (https://sites.google.com/view/ubacellrgit/events-activities/2019-2020#h.58n8cz1ajq0e)
- Republic Day Gathering & Villagers Meet (https://sites.google.com/view/ubacellrgit/events-activities/2019-2020#h.2whm2b511oc5)
- Technical Survey Visit (https://sites.google.com/view/ubacellrgit/events-activities/2019-2020#h.ejg7wlicdtj4)
- UBA: Awakening The Gandhian Ideology (https://sites.google.com/view/ubacellrgit/events-activities/2019-2020#h.gvxna08djw1d)
- Flood Relief Drive (https://sites.google.com/view/ubacellrgit/events-activities/2019-2020#h.zd04xeyv1xg9)
- Tech4seva Workshop (https://sites.google.com/view/ubacellrgit/events-activities/2019-2020#h.2txeyd8x1jpv)

By SOCH - RGIT: Social Organization for Conserving Humanity

- Beach (https://sites.google.com/view/ubacellrgit/events-activities/2019-2020#h.cyvdxibtj8rk) Clean-up Drive
- · Books (https://sites.google.com/view/ubacellrgit/events-activities/2019-2020#h.ah3zkxvnfayt) Donation Drive
- Covid (https://sites.google.com/view/ubacellrgit/events-activities/2019-2020#h.58n8cz1ajq0e) 19 Pandemic Relief Drive

Co-curricular Activities of the various department:

Name of Department	Name of Student Professional Body	Event	Name of Resource Person	No. of Participants
Information Technology	ABIT	Microsoft Certification on Machine Learning organized by ATS Learning Solutions	Mr. Deepak Garg	65
Information Technology	ABIT	Announcement and Meeting of the Junior Core Members of ABIT	Dr. S.B.Wankhade	50
Information Technology	ABIT	ABIT Orientation for Incoming SE students	Prof. Nilesh Rathod	70
Information Technology	ABIT	Announcement and Meeting of the Super Junior Core Members of ABIT and discussion of Committee's plan for the AY.		70
Information Technology	ABIT	Students by ABIT Committee	Dr. S.B.Wankhade	60
Information Technology	ABIT	Know Your Department for First Year Students	Prof. A.E.Patil	60
Information Technology	ABIT	IELTS/TOEFL/GRE Preparation Webinar by Azent Overseas Education Pvt. Ltd.	Mr. Vinayak Bhosale	50

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Information Technology	ABIT	Data Science Career and Job Prospects in association with I.T.Vedant	Prof. Sneha Lohana	70
Information Technology	ABIT	Paper Publication and Presentation	Prof. Nilesh Rathod	65
Information Technology	ABIT	Data Science – From Inception to Delivery	Mr. Mohammed Hasnain and Mr. Keith Rebello	65
Information Technology	ABIT	Collegepond Global UniConnect Education Fair in association with Collegepond	"	52
Instrumentation Engg.	ISA	Online mock aptitude test	ISA CORE COMMITTEE	150
Instrumentation Engg.	ISA	Webinar on navigating through graduate school	Ms. Juniyali Nauriyal	90
Instrumentation Engg.	ISA	Webinar on career opportunities in Instrumentation	Mr. Neel Shah	96
Instrumentation Engg.	ISA	Webinar on IIoT AND 3D printing	Ms. Saylee Panchbhai	75
Instrumentation Engg.	ISA	Webinar On Resume Building	Ms. Ashwini Shinde.	50
Instrumentation Engg.	ISA	Arduino workshop	Mr. Cinmay Nikharage	35
Electronics & Telecommunication Engg.	IETE	Recent developments and opportunities in VLSI Industry	Dr. Surendra Rathod, Sardar Patel Institute Of Technology	100
Electronics & Telecommunication Engg.	IETE	Higher education prospects	Ms. Deepika Awasthi, Un academy	100
Electronics & Telecommunication Engg.	IETE	Industry readiness, usage of modern tools and technologies	Mr. Rishi Gupta, Autumn Tech Labs.	80
Electronics & Telecommunication Engg.	IETE	Industry readiness, usage of modern tools and technologies	Ms. Navya Sheregar, Ms. Pooja Palekar, BE EXTC Students	130
Electronics & Telecommunication Engg.	IETE	Recent Trends in the automobile industry which is not included in the syllabus.	Mr. Karan Gupta, Technical Secretary IETE RGIT Mr. Vinay Bhat, Team RGIT Racing	100

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Computer Engg.	CESS	Individual and team work in multidisciplinary settings: Facebook Developer Circle- Build Day	Mr. Saad Ghojaria, Mr. Aayush Singh and Mr. Nitish Talekar, senior committee members, CESS	30
Computer Engg.	CSI	Usage of Modern tools: Cloud Computing Seminar	Mrs. Priyanka Sawant, Belfrics Cryptex Pvt Ltd.	55
Computer Engg.	CSI	Data Science Workshop	Mr.Ashwin Mehta, Technical Director at Vissicomp	50
Computer Engg.	CODECELL	Reach and Teach: Django Workshop	Omkar Chorghe, from RGIT Code Cell, and Sagar Ambilpure	30
Mechanical Engg.	SAE-RIT	MATLAB & SIMULINK Workshop	Mr Swapnil Mane & Mr Malharduth Hublkar	40
Mechanical Engg.	Aero-RGIT	Talk on Deep Learning	Mr Rahul Agrawal	86
Mechanical Engg.	SAE-RGIT	ANSYS Workshop	Mr Kartik Patil	40
Mechanical Engg.	Aero-RGIT	Introduction to Computer Vision	Mr Swagat Das,Mr Avadhoot Khedekar,Ms Niyati Vaidya	44
Mechanical Engg.	ASME-RGIT	WORKSHOP ON SOLIDWORKS	Mr Mohanish Raut	34
Mechanical Engg.	ASME-RGIT	CREO S/W WORKSHOP	Mr. Naveen Gupta, sr Design Engineer,Engro wn eLearning Solution LLP,UP	45
Mechanical Engg.	MESA-RGIT	CNC Programming	Members of MESA RGIT	15
Mechanical Engg.	IIIE-RGIT	Lean Six Sigma	Mr. Amitabh Saxena	80
Mechanical Engg.	MESA-RGIT	Webinar on Python Programming	Ms Antaripa Saha	60
Mechanical Engg.	MESA-RGIT	Webinar on Electric Vehicle Technology	Mr.Ujjwal Kumaren	66
Mechanical Engg.	ASME-RGIT	4D Printing: New dimension in manufacturing?	Mr Amit Ghule CoFounder of Simpliforge technologies	35
Mechanical Engg.	ASME-RGIT	Unlocking Industrial Potential of Digital Twin	Dr Santosh B. Rane Dean,SPCE,Mumbai	45
Mechanical Engg.		Webinar onEnergy Conservation'.	'Saikat Das',Energy Analyst and Strategists	36
Mechanical Engg.	Robotics Club	Robocon 2022-23	IITB	12
Mechanical Engg.	ASME-RGIT	WORKSHOP ON NX- CAD	Mr. Prasad Mastakar	35
Mechanical Engg.	ISHRAE-RGIT	ISHRAE Quiz	ISHRAE Team	21
Mechanical Engg.	Robotics Club	Robotic Arm workshop	Mr Mohammed javed Khan	25

0/10/24, 12.01 FW				FIIII
Mechanical Engg.	IIIE-RGIT	Industry 4.0 : Scope Challenges in indian Landscape	Prof. Amitkumar Patil	70
Mechanical Engg.	Robotics Club	Robocon 2021-22	IITB	12
Mechanical Engg.	ASME-RGIT	Engineering Skills of the Decade	Mr. Danish Sayyed	25
Mechanical Engg.	Aero-RGIT	Basic Sessions on Aerodynamics and Aeronautics	Vaibhav Kelkar & Prathmesh parab	35
Mechanical Engg.	ASME-RGIT	Role of Multi- Disciplinary Engineering	Mr.Prathmesh Upadhyay	33
Mechanical Engg.	Aero-RGIT	Basic sessions on fuselage,empennage and landing gear	Shubham dixit & Aditya wavale	35
Mechanical Engg.	ASME-RGIT	Industry Succes Story, ICEI 4.0 International Conference,	ASME TEAM	15
Mechanical Engg.	MESA-RGIT	Case Study Competition on Total Quality management	Mr.Shivaan Munsif , Mr.Kunal Bhoir, Mr.Akash Shelar, Mr.Pranit sovilkar	50
Mechanical Engg.	Aero-RGIT	SAE Aero-Design East Challenge 2022,Micro Class	AeroRGIT Team	23
Mechanical Engg.	ASME-RGIT	E-Cyclothon 22	ASME Team	12
Mechanical Engg.	IIIE-RGIT	Guidance on Industrial Engineering	Dr. Nitin Panaskar	22
Mechanical Engg.	ASME-RGIT	ASME Standards in Industry Quiz Competition	ASME Team	35
Mechanical Engg.	ASME-RGIT	Engineering Education	Mr.Vacchani Raj	33
Mechanical Engg.	MESA-RGIT	SAHAS Industrial Internship Drive	MESA Team	12
Mechanical Engg.	SAE-RGIT	Formula Bharat 2023- Class II	SAE Team	15
Mechanical Engg.	ASME-RGIT	IoT Workshop	Mr.Mohmmad Rafi Jalgoankar	25
Mechanical Engg.	Aero-RGIT	Solidworks Workshop	AeroRGIT Team	25
Mechanical Engg.	MESA-RGIT	IPR Mining Workshop	Mr Mandar S.Chikhale & Mr. avinash B.Karande	60
Mechanical Engg.		Robopack Workshop	Mr. Mohit & Mr.Sahil	33
Mechanical Engg.	MESA-RGIT	Awareness Program on IPRs	Mr.K.Narayan Murthy	45
Mechanical Engg.	MESA-RGIT	Robot Autonomy: Opportunities & challenges	Mr. Ameya Salvi 45	
Mechanical Engg.	MESA-RGIT	Mahanand dairy Industrial Visit	Mr. Dinesh Joshi 60	
Mechanical Engg.	ASME-RGIT	NX CAD 3D Printing	Mr. Hanzala Maknojia 43	
Mechanical Engg.	MESA-RGIT	Technical Poster presentation	Mr Akbar Sayyed & 22 Ms Jaya Verma	
Mechanical Engg.	ASME-RGIT	HPVC	ASME TEAM	13

Mechanical Engg.	ASME-RGIT	IAM3D	ASME TEAM	12
Mechanical Engg.	Aero-RGIT	Aero-Modelling	AeroRGIT Team	23

10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

Total Marks 120.00

10.1 Organization, Governance and Transparency (40)

Total Marks 40.00

10.1.1 State the Vision and Mission of the Institute (5)

Institute Marks: 5.00

Vision:

To create competent technical professionals with ethical behaviour and environment consciousness.

Mission:

M1: To provide contemporary and cutting-edge technical education.

M2: To provide an ambience which nurtures research ideas in futuristic domains.

M3: To initiate project-based learnings and practical exposures.

M4: To direct faculties in research and consultancy / advisory roles.

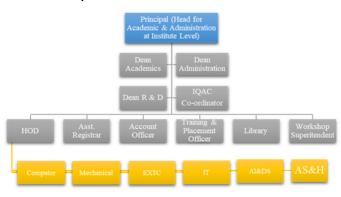
M5: To establish strong linkages with well-known national and international technical institutes and industry.

M6: To promote a culture of imbibing environmental care.

M7: To aim to become an institute of aspiration and choice.

10.1.2 Governing body,administrative setup,functions of various bodies,service rules, procedures, recruitment and promotional policies (10) Institute Marks: 10.00

Administrative Setup



Organization Chart for Administrative Set - up

GOVERNING BODY

Objective: The Governing Body is responsible for formulating the policies of the institution, providing the right direction for all-round development of the institute and insures the proper governance periodically. It chalks out a roadmap in order to achieve the goals of the institution from time to time.

Constitution of Governing Body:

The Governing Body shall have at least eleven members including the Chairman and the Member Secretary. The Registered Trust/ Society/ Company shall nominate six members including the Chairman and the Member Secretary, and the remaining five members shall be nominated as indicated below.

- 1 Chairman A technical expert either an entrepreneur or an industrialist or an educationist of repute
- 2 to 5 Members to be nominated by the Registered Society / Trust
- 6 & 7 Two eminent professionals from the area of Engineering & Technology
- 8 & 9 Two academicians of excellence.
- 10 University Nominee
- 11 Member Secretary Principal (ex-officio)

Frequency of Meetings: Twice in an academic year.

Functions & Responsibilities:

- The Governing Body works towards ensuring that all stakeholders, including students, faculty, staff, management and industry, are confident and have faith in the institution. It also ensures that all those assigned authority for various nodal functions, both within and outside institutions, carry these out effectively.
- · Adopt rules and procedures for good governance of the institutions
- To appoint the teaching and non-teaching staff on the recommendations of the selection committees constituted under the relevant regulations of the University.
- · To monitor and review the academic progress of the institute periodically
- To monitor faculty deployment and development, placement and industry-institute interaction activities in the institute/college and suggest remedial measures wherever necessary.
- To do budget allocation as per development plan.

Sr. No.	Name	Designation
1.	Shri. Diliprao Dagdojiraoji Deshmukh	Chairman
2.	Shri. Amit Vilasraoji Deshmukh	Secretary
3.	Mrs. Aditi Amit Deshmukh	Member
4.	Shri. Dheeraj Vilasraoji Deshmukh	Member
5.	Dr.Abhay Wagh, Director, DTE, Maharashtra	Member
6.	Shri. Subhodh Sant, General Manager, Siemens Ltd.	Member
7.	Dr. D. N. Raut, VJTI	Member
8.	Dr. Bhushan T. Patil, FrCRCE, Mumbai	Member
9.	Dr. Ramesh Lekurwale, K.J. Somaiya Vidyavihar University, Mumbai	Member
10.	Mr. Gautam Dubey, Deepti Air Systems, Mumbai	Member
11.	Ms. Miloni Thakkar, KLT Automotive & Tubular Products Ltd	Member
12.	Dr. Sanjay D. Deshmukh, Dean Academics	Member
13.	Dr. Kiran M. Chaudhari, Dean Administration	Member
14.	Dr. Rajesh Kale, Dean R & D	Member

I	15.	Dr. Sanjay U. Bokade Principal RGIT	Member Secretary
ı			

College Development Committee (CDC) Earlier known as Local Managing Committee (LMC)

The CDC is constituted as per provisions of Sec 97 of Mumbai Universities Act, 2016. The members hold office for a term of 5 years.

Objective: To prepare a comprehensive development plan of the institute on annual basis like academic, placement, infrastructure, administrative, and admission growth.

Constitution of CDC:

- Chairperson of the management or his nominee ex-officio Chairperson;
- · Secretary of the management or his nominee;
- One head of department, to be nominated by the principal or the head of the institution;
- Three teachers in the college or recognized institution, elected by the full-time amongst themselves out of whom at-least one shall be woman;
- One non-teaching employee, elected by regular non-teaching staff from amongst themselves;
- Four local members, nominated by the management in consultation with the principal, from the fields of education, industry, research and social service of whom at least one shall be alternated.
- o Co-ordinator, Internal Quality Assurance Committee of the college;
- o President and Secretary of the College Students Council;
- o Principal of the college or head of the institution Member Secretary

Frequency of Meetings: Four times in a year

Functions & Responsibilities:

- Prepare an overall comprehensive development plan of the college regarding academic, administrative and infrastructural growth, and enable college to foster excellence in curricular, co-curricular and extra-curricular activities;
- · Decide about the overall teaching programmes or annual calendar of the college
- · Recommend to the management about introducing new academic courses and the creation of additional teaching and administrative posts.
- · Make specific recommendations to the management to foster academic collaborations to strengthen teaching and research
- · Make specific recommendations regarding the improvement in teaching and suitable training programmes for the employees of the college
- · Formulate proposals of new expenditure not provided for in the annual financial estimates (budget)
- Discuss the reports of the Internal Quality Assurance Committee and make suitable recommendations
- · Recommend the administration about appropriate steps to be taken regarding the discipline, safety and security issues of the college or institution
- · Prepare the annual report on the work done by committee for the year ending on the 30th June and submit the same to the management of such college.

Internal Quality Assurance Cell (IQAC)

Objectives:

- · Develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the institution.
- · Promote measures for institutional functioning towards quality enhancement through internalization of quality culture and institutionalization of best practices.
- Ensure timely, efficient and progressive performance of academic, administrative and financial tasks.
- · Ensure the relevance and quality of academic and research programmes.
- · Ensure equitable access to and affordability of academic programmes for various sections of society.

Constitution of IQAC Cell:

- · Chairperson: Head of the Institution
- Teachers to represent all level (3 to 8)
- One member from the Management
- · Few Senior administrative officers
- · One nominee each from local society, students and Alumni
- One nominee each from Employers / Industrialists / Stakeholders
- One of the senior teachers as the co-ordinator / Director of IQAC

Frequency of Meetings: Four times in a year

Functions & Responsibilities:

- · Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution
- Facilitating the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process
- · Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes
- Dissemination of information on various quality parameters of higher education
- · Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles
- $\bullet \quad \text{Documentation of the various programmes /activities leading to quality improvement} \\$
- · Acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices
- · Development and maintenance of institutional database for the purpose of maintaining/enhancing the institutional quality
- Development of Quality Culture in the institution
- · Preparation of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC

Academic Committee

Objective: The Academic Committee is a vital link between the student body and the faculty. The objective of this committee is to keep the students aware of their academic standing and reducing blind-spots. It takes up the responsibility of imbibing best practices so that future student's community can have better system in place. It also arranges regular interaction between faculty and students.

Constitution of Committee:

- Head of Institution
- · Head and Associate Head of all departments
- · Senior faculty of each department

Frequency of Meeting: Four times in a year or as per the need

Functions and Responsibilities:

- · Arranging teaching requirements for successful completion of academic programs of the college and supervising the same periodically.
- · Facilitating Controller of Examinations for making arrangements for conducting examinations, as per the norms of University.
- · Encouraging collaboration with other academic institutes and industry.
- · Ensuring discipline among students.
- Facilitating and supervising the co-curricular activities of the students.
- · Allocation of
- · Inspiring students to be creative and innovative and recommending management to encourage them with financial support towards the same.
- Appointing committees from amongst the college teaching faculty and experts from outside, in order to sort out and advise on specific academic issues and consequently acting on the
 recommendations of such committees after due consideration.
- · Planning and executing the overall academic growth of the college by making recommendations to the Management, wherever necessary
- To do budget allocation as per development plan.

Defined rules, procedures, recruitment and promotional policies etc

List of the published rules, policies and procedures, year of publications, awareness among the employees/students, availability on institute website etc. Any changes received from State Govt., University and Manjara Charitable Trust are communicated through circulars via hard copy and e-mails. Procedures are aligned with University of Mumbai. Teachers code of conduct of University of Mumbai.

Recruitment:-

- As per requirement, draft advertisement is sent to the concol department of University for Approval. On receiving approval to draft of advertisement, the advertisement is published in two
 national newspapers and applications are called. The interview panel consists of subject experts, V.C. nominee nominated by University, DTE nominee, AICTE nominee, Chairman or his
 nominee and the Principal being secretary of selection committee. The recommendations of the Selection Committee are forwarded for Management's approval. Subsequently, it is
 forwarded to the University for approval to regular appointment.
- After successful completion of probation, the staff is considered as a permanent staff.
- · Permanent staff gets the benefits of PF, gratuity, and all other benefits as per the norms of the University and State Government.
- The non-teaching staff is initially appointed on the consolidated payment with regular increments in salary. After successful completion of three years of service, they are considered for permanent appointment with proper scale and all other benefits.
- · Few non-teaching staff are promoted from Jr. clerks to Sr. clerks and few are granted additional increments in their present scale.

*CAREER ADVANCEMENT SCHEME FOR TEACHING AND NON-TEACHING STAFF FOR 3 YEARS:

1. TEACHING STAFF:

The following parameters

Parameters	Marks
Teaching Feedback	10
Administrative Contribution (Department / Institute)	40
Staff Development	10
Research Contribution	40
Outside World Interaction	30
Stake Holder interaction	50
Innovation brought	20

Promotion of Teaching Staff:

Name of Faculty	Department	Previous Designation	Promoted to	
Dr. Sharmila Gaikwad	Computer Engg.	Assistant Professor	Associate Professor	
Dr. Jyoti Deshmukh	Computer Engg.	Assistant Professor	Associate Professor	
Dr. Sanjay Deshmukh	Electronics Telecommunication Engg.	& Assistant Professor	Professor	
Dr. Poonam Sonar	Electronics Telecommunication Engg.	and Assistant Professor	Associate Professor	

Dr. Kishor Sawarkar	Electronics and Telecommunication Engg.	Assistant Professor	Associate Professor
Prof. Premdas Pawar	Electronics and Telecommunication Engg.	Assistant Professor AGF 6000	Assistant Professor AGP 7000
Prof. Ankush Hutke	Information Technology	Assistant Professor AGF 6000	Assistant Professor AGP 7000
Dr. Rajesh Kale	Mechanical Engineering	Associate Professor	Professor
Dr. Satyam Sadala	Instrumentation Engineering	Assistant Professor	Associate Professor
Prof. Pramod Gawande	Instrumentation Engineering	Assistant Professor AGP 5000	Assistant Professor AGP 6000
Dr. Yogaraj Patil	Applied Sciences & Humanities	Assistant Professor AGP 7000	Assistant Professor AGP 8000
Dr. Kishor Chaudhari	Applied Sciences & Humanities	Assistant Professor AGP 7000	Assistant Professor AGP 8000

Career Advancement Scheme is implemented for non-teaching staff. The administrative and supporting technical staff has been promoted from Junior Scale to Senior Scale with additional increments and few are promoted to higher posts.

2) SUPPORTING STAFF:

a) Lab Assistant: 5200 - 20200 AGP 2400

b) Instructors/ Accountant / Office Superintendent: 9300 – 34800 AGP 4300

c) Assistant Librarian: 5200 - 20200 AGP 2800

d) Peon: 4440 - 7440 AGP 1300

e) Head Clerk: 9300 - 34800 AGP 4200

f) Assistant Account Officer: 9300 - 34800 AGP 5100

- The Non teaching staff who have completed more than 12 years and 24 years have given one increment & AGP from 2400 2700 and two additional increments respectively in the present scale and as per qualification upgraded by staff. They are also considered for upgradation.
- The rules for outdoor duty, compensatory off, casual leave, medical, earned leave and vacations are well defined and as per govt. norms and known to all staff. Any changes received from the university / State Govt. are regularly communicated.

Details of the Leaves:

- 1. Compensatory Off: The compensatory off applicable to non-teaching staff who remains present on holidays or Sundays for doing other than routine work.
- 2. Casual Leave: 1st January to 31st December: 8 days of CL

3. Vacation:	Summer	Winter
Probation completed	40	30
More than 1.5 years comple	eted 28	28
More than 1 year complete	d 21	21
1 year completed	14	14
Less than 6 months	07	07

- 4. Earned Leave: 1. Administrative staff 30 days per year
 - $2. \ \ Vacation \ (technical \ supporting \ staff) 46 \ days \ per \ year$
- 5. Medical Leave: Teaching and non-teaching staff 10 days per year
- 6. Maternity Leave: 3 months for regular staff (full pay) (interim order)
- 7. **Resignation leave:** In case staff desire to leave the job during probation period, he /she has to give one month's notice in writing or one-month salary in lieu thereof. If he/she desires to leave the job after completion of probation period, he/she has to give three months' notice in writing or three months' salary in lieu thereof.
- 10.1.3 Decentralization in working and grievanceredressal mechanism (10)

Institute Marks: 10.00

An administrative body is set up in the Institution to make the campus ragging free, eradicate harassment and to address the grievances of students and staff.

- The head of the committee and members are nominated by Head of the Institution to oversee the process and maintain strict vigil in all the activities carried out at the institute.
- · Principal holds a meeting with all the members and brief the importance of the committee and also the responsibility of each member.
- The members are advised to implement their task carefully and periodically update the report to the head of the committee and during any unforeseen incidents an emergency meeting is conducted in the presence of Head of the Institution to discuss and the action is taken accordingly.
- The management has delegated its authority to the Principal. The principal in-turn has delegated the powers to committee Heads and committee members. All these committees work independely and implement need based action into force for the upliftment of the college.
- · All the teaching and non-teaching staff members are hereby informed that following Institute level committees have been formed for the Academic Year starting from July of every year.

GRIEVANCE REDRESSAL SYSTEM:-

Any complaint by a particular staff or faculty is brought to the notice of Principal by the Head of Department, who taken considers the matter and takes a decision. If the issue is serious then the Principal discusses with the Management and the issue is resolved.

College Grievance Redressal Cell (Student & Staff)

Constitution of COLLEGE GRIEVANCE REDRESSAL CELL (CGRC) for Staff and students as per the State Government Gazette Dated February 27, 2019 Extra Ordinary Number 67.

Objectives:

- 1. To provide an avenue for the aggrieved students to redress their individual grievances in order to have a healthy atmosphere among students, staff and management in the Institute.
- 2. To comply with the AICTE Regulations to provide for establishment of Grievance Redressal Committee in each Institute approved by AICTE.

Constitution of Cell:

- Chairperson
- · One senior member
- · Member Secretary

Frequency of Meetings: As per the need

Functions and Responsibilities:

- The cases will be attended promptly on receipt of written grievances from the students.
- The committee formally will review all cases and will act accordingly as per the Management policy
- . The committee will give report to the authority about the cases attended to and the number of pending cases, if any, which require direction and guidance from the higher authorities.
- The students may feel free to put up a grievance in writing and drop in the grievance box or handover to the officer- in-charge of the committee.
- · The Grievance committee will assure that the grievance has been properly solved in a stipulated time limit provided by the committee.

1. College Grievance Redressal Cell - Staff:

1	Dr. Sanjay U. Bokade	Chairperson	
2	Prof. Sanjay D. Deshmukh	Member Secretary	
3	Prof. Kiran Chaudhari	Member	

2. College Grievance Redressal Cell - Students:

1	Prof. Rajesh V. Kale	Chairperson	
2	Prof. Sunil B. Wankhade	Member Secretary	
3	Prof. Jyoti Deshmukh	Member	

Anti-Ragging Committee

Objective: To assist the college authorities in promoting and maintaining discipline in the institute and prevent anti ragging, in any form.

Constitution of Committee:

- Chairperson: Head of the Institution
- · Teachers to represent all level
- Non teaching representatives (1 to 2)
- Student Affair Convenors
- One representative from Civil and Police administration
- One representative from News Media
- One representative from Non-Government Organization
- · Two representatives from students
- Two representatives from Stakeholders (Parents)

Frequency of Meetings: As per the need

Functions and Responsibilities:

- · Give wide publicity regarding anti-ragging laws and policies across the college.
- · Monitor activities during start of academic year.
- · Solicit affidavits from parents/guardians and students.
- Conduct counselling sessions for senior students.
- · Conduct counselling sessions for incoming students at the time of admission and induction.
- · Prevent ragging by students in the institute by pro-actively involving, taking rounds.
- Promote and maintain discipline in the institute by pro-actively giving suggestions to curb ragging

ANTI-RAGGING PROHIBITION AND PREVENTION AT RGIT CAMPUS

- Installation of Anti-Ragging committee as per AICTE directions
- · Contact numbers of all the concerned authorities are put on to the institute website and also the display banner in the premises.
- Anti-Ragging squad for monitoring
- · Counselling and mentoring activities are taken up
- · Secured campus with guards in service

Name	Designation	Member	
Dr. Sanjay U. Bokade	Principal	Head	
Prof. Sanjay D. Deshmukh	Vice-Principal	Member – Faculty	
Prof. Kiran M. Chaudhari	HOD - ASH	Member – Faculty	
Prof. Sunil P. Khachane	HOD - COMP	Member – Faculty	
Prof. Sunil B. Wankhade	HOD - IT	Member – Faculty	
Prof. Rajesh V. Kale	HOD - MECH	Member – Faculty	
Prof. Jyoti A. Deshmukh	HOD – AIDS	Member – Faculty	
Prof. Pramod Gawande	HOD - INSTU	Member – Faculty	
Prof. Shalini Sharma	Convener - SA	Member – Faculty	
Prof. Suresh Mestry	Convener - SA	Member – Faculty	
Ms. Ujwala Shelar	Lab Assistant	Member – Non Teaching	
Mr. Durgesh Salunke	PSI – D N Nagar, Mumbai Police	Member – Police Admin	
Mr. Aditya Dubey	Dy. Chief Reporter Navbharat	Member – Media	
Ms. Raheen Jummani	Member - NGO	Member – NGO	
Mr. Varad Lad	BE EXTC	Member - Student	
Mr. Pratik Dave	BE IT	Member - Student	
Mr. Nikhil Poojari	TE MECH	Member - Student	
Mr. Nandakumar Keluskar	Father of Mr. Saurabh Keluskar –	Member - Parent	
Tan Tundakumu Terusku	B.E. MECH		
Mrs Sabiha Desai	Mother of Mr.Aamil Desai-	Member - Parent	
Tarisaona Dom	T.E. IT		
	Dr. Sanjay U. Bokade Prof. Sanjay D. Deshmukh Prof. Kiran M. Chaudhari Prof. Sunil P. Khachane Prof. Sunil B. Wankhade Prof. Rajesh V. Kale Prof. Jyoti A. Deshmukh Prof. Pramod Gawande Prof. Shalini Sharma Prof. Suresh Mestry Ms. Ujwala Shelar Mr. Durgesh Salunke Mr. Aditya Dubey Ms. Raheen Jummani Mr. Varad Lad Mr. Pratik Dave	Dr. Sanjay U. Bokade Principal Prof. Sanjay D. Deshmukh Vice-Principal Prof. Kiran M. Chaudhari HOD - ASH Prof. Sunil P. Khachane HOD - COMP Prof. Sunil B. Wankhade HOD - IT Prof. Rajesh V. Kale HOD - MECH Prof. Jyoti A. Deshmukh HOD - AIDS Prof. Pramod Gawande HOD - INSTU Prof. Shalini Sharma Convener - SA Prof. Suresh Mestry Convener - SA Ms. Ujwala Shelar Lab Assistant Mr. Durgesh Salunke PSI - D N Nagar, Mumbai Police Mr. Aditya Dubey Dy. Chief Reporter Navbharat Ms. Raheen Jummani Member - NGO Mr. Varad Lad BE EXTC Mr. Pratik Dave BE IT Mr. Nikhil Poojari TE MECH Mr. Nandakumar Keluskar Mrs. Sabiha Desai Mrs. Sabiha Desai	

Internal Complaints Committee:

Objectives:

- 1. To create and maintain safe, healthy and supportive environment for women and girl students in the campus.
- 2. To address issues faced by women at work place and to organize awareness generation programmes and to take preventive steps towards protection of women staff / female students from sexual harassment in the college.
- 3. The Women Redressal Committee / Women Development Cell / Internal Complaints Committee is functioning in the college as per the norms laid down by the AICTE / University of Mumbai.

Constitution of Committee:

- · Chairman / Presiding Officer
- Female Nominee from teacher (2 to 3)
- Female nominee from non-teaching staff (2 -3)

- Girl nominee from students (1-2)
- · Secretary

Frequency of Meeting: Twice in a year or as per the need

Functions and Responsibilities:

- To undertake the awareness programs on gender sensitization, women rights and women empowerment in campus.
- To ensure protection of girls/women studying/working from sexual harassment in the premises through workshop and hands-on training of Self-defense.
- · To organize workshops and seminars on health and hygiene education for students.
- To organize the gender awareness through screening of films/street plays/ posters/slogans/essay competition.
- To organize the programs with other associations of the college such as Students council, Cultural Association, etc.
- · To provide a platform to girls/women studying and working in the institute to express their views and show their special talents.

Sr.No.	Member	Designation	Mobile	Email Address
1	Prof. Kiran M. Chaudhari	Presiding Officer	9930959964	kiran.chaudhari@mctrgit.ac.in
2	Prof. Poonam Sonar	Member - Faculty	9967330308	poonam.sonar@mctrgit.ac.in
3	Prof. Savita Lade	Member - Faculty	9022800304	Savita.Lade@mctrgit.ac.in
4	Ms. Manisha Warade	Member - Non Teaching	9969052481	manisha.warade@mctrgit.ac.in
5	Ms. Sunita Bharambe	Member - Non Teaching	9869619386	sunita.bharambe@mctrgit.ac.in
6	Ms. Isha N. Ahire	Member - Student TE MECH	9819256329	eshaahire2003@gmail.com
7	Ms. Kiran Sahu	Member - Student TE IT	7506432401	kiransahu2309@gmail.com
8	Ms. Vaishnavi Gurav	Member - Student BE EXTC	9136074530	gvaishnavi159@gmail.com
9	Ms. Raheen Jummani	Member - NGO	9820694758	raheenjummani@gmail.

Purchase Committee

Objective: To review and evaluation of Purchases / Expenses.

Constitution of Committee: Purchase Committee member with the terms of provisions made under Section 75(3)(b) of the Maharashtra Universities Act, 1994.

• Chairman: Head of Institution

• Members: All HOD's

• Members: Accounts (1-2)

• Member: Maintenance In-charge (Computer & Other)

Frequency of Meetings: Four times in a year or as per the need

Functions and Responsibilities:

- Purchase Committee will prepare an Annual Budget for the Institute.
- The Purchase Committee will collect the requirements of all the departments so as to make the Annual Budget.
- Purchase Committee will forward the Budget to the IQAC for its approval.
- The Purchase Committee will forward the Budget to the management after the approval from IQAC.
- All the repair purchases / Expenses to be discussed and approved in Purchase Committee meetings.

Committee for SC / ST

Objectives:

- 1. To create and maintain safe, healthy and supportive environment for SC / ST staff and students in the campus.
- $2.\ To\ address\ the\ issues\ of\ staff\ and\ students,\ belonging\ to\ schedule\ caste\ /\ schedule\ tribes\ in\ the\ Institute\ and\ to\ prevent\ atrocities\ against\ them.$
- 3. To comply with AICTE regulations for the establishment of the Committee for SC / ST (As per the Scheduled Caste and the Scheduled Tribes (prevention of Atrocities) act, 1989, No. 33 of 1989, dated 11/09/1989)

Constitution of Committee:

- Chairperson: Head of Institution
- Two nominees from Teachers
- · One nominee from Non-Teaching

Frequency of meeting: As per the need or twice in a year

Functions and Responsibilities:

- Circulate GOI and Commission's decisions and to collect regularly, on an annual basis, information regarding course-wise admissions to candidates belonging to the Scheduled Castes and Scheduled Tribes in the Universities and Colleges for different courses, in suitable forms prescribed, by a stipulated date, and to take follow up action, where required.
- To look into the complaints if any received from the concerned staff and students belonging to SC / ST.

Research & Development Committee

Objectives: - To motivate faculty members and students for research and development activities.

Constitution of Committee

- · Dean R&D
- · One senior member from each department

Frequency of Meetings: Twice in an academic year.

Functions and Responsibilities:

- To encourage and help faculty and students to apply for research funding grant in minor/major projects from various government agencies like University of Mumbai, SERB, DST, AICTE.
- · To interact with Industry, Government, Professionals, Experts from research laboratory for research opportunities
- To incubate, projects in the institute and then promote and commercialize them to external stakeholders like industry and other institutions, Alumni through project exhibition and competition
- To have memorandum of understanding (MOU) with industries for research service and product development.
- To register the work done by researchers under Intellectual Property Rights like copyrights, patents etc.
- To work on Research and Development projects and offer consultancies in core and interdisciplinary areas of engineering to strengthen the education and research ecosystem.
- · To establish the linkages with apex educational and national research institutions and emerge into a Centre of Excellence.

Unfair means Inquiry Committee

Objective: To investigate unfair means resorted to by students at the University examination, following will be the members of Unfair Means Committee with the terms of provisions made under Section 32(6)(a) of the Maharashtra Universities Act 1994

Constitution of Committee.

- · Chairman: Principal
- Senior Faculty Member (2 to 4)
- Controller of Examinations (1 To 2)

Frequency of meeting: As per the need or twice in a year

Functions and responsibilities:

- · To investigate the cases of students involved in unfair means during examinations and reported by the Examination committee
- To recommend action(s) (if any) to the Principal regarding unfair practices
- · To conduct transparent and unbiased investigation against any unfair means cases
- To counsel the student(s) indulging in unfair means to avoid any drastic step being taken
- To act as the investigative body for any complaints of alleged unfair practices against Junior Supervisor/ Paper Setter and any other person involved directly or indirectly in the examination work

Library Committee

Objectives: To function as a channel between the library and its users.

Constitution of Committee:

- · Convenor: Senior faculty from any department
- Co-ordinator: Faculty (1-2) from Computer or IT department
- · Member from each department

Frequency of Meeting: Twice in a year

Functions and Responsibilities:

- To assist the Librarian in formulating Library policy.
- To look after general maintenance of the library in terms of reading material and infrastructure.
- To effectively involve in fostering the reading habit of staff and students.
- To recommend / justify / sanction / approve withdrawal and weeding out of outdated material to the competent authority for final decision in the matter.
- To prepare the plan for stock verification.

Website Committee

Objectives: To ensure that the college website is regularly updated, improved and well maintained.

Constitution of Committee:

- Convenor: Senior faculty from any department
- · Member from each department
- Member from Library

Frequency of Meeting: Twice in a year

Functions and Responsibilities:

- Regularly update the information/data given on the website under various items/heads so as to have the latest and correct information about the institute at all times and removes the incorrect and irrelevant data.
- · Collect information about the latest events in the institute, achievements etc and get them posted on the website by way of write ups and pictures etc.
- · Update all communications, notices, announcements etc on a regular basis.
- Strive to make improvement in the website with respect to design, preventability etc on a continuous basis.

Student Affair Committee

Objective: To promote and arrange extracurricular and co-curricular activities to bring out the talents of students in the performing arts.

Constitution of Committee:

- Two members as a Convenors (One Male and One Female)
- · One member from each department

Frequency of Meetings: As per the need

Functions and Responsibilities:

- The Cultural Committee shall be responsible for all intra and inter collegiate cultural events in the College.
- To plan and schedule Technical and Cultural events for the academic year. (Tentative dates to be included in the academic calendar of the institute.) by delegating various tasks.
- · To the procedure to organize cultural events
- To communicate about various festivals and events to be celebrated in the college and give a wide publicity.
- · Arranging events/programs for staff and students in coordination with 'Students Technical and Cultural Committee'.

Sports / Yoga Committee

Objective: To provide healthy leisure time for every staff and students of RGIT.

Constitution of Committee:

- · Convenor: One member from any department
- · One member from each department

Frequency of Meetings: As per the need

Functions and Responsibilities:

- To maintain a stock of sports goods.
- · To order sports equipment after seeking necessary approvals.
- · To arrange venues for sports events.
- To recommend students for permission to participate in the intra or inter collegiate events.
- To ensure that those students who participate in sports events are given attendance as per University of Mumbai rules.
- To maintain discipline in all events happening in and outside the college.
- · Maintaining records of sports events attended by students.

UBA / NSS Committee

Objective: To inculcate and develop social sensitivity, moral values and professional ethics in students along with their academic formation so as to show responsible behavior to the professional community and society at large and to grow as responsible citizens of high moral values, making valuable contributions to profession/community/society, thus realizing a major thrust in the Vision and Mission of the Institute.

Constitution of Committee:

- Institute Co-ordinator (UBA)
- Program Officer (NSS)
- · One representative from each department

Frequency of Meetings: As per the need

Functions and Responsibilities:

- $\bullet~$ UBA / NSS coordinator will plan regular activities and special camping programme.
- The programme officer will ensure that NSS volunteers complete the prescribed hours in regular activities and participate in special camping programme as per requirements.
- He/She will supervise the work of UBA / NSS volunteers.
- He/She will maintain the necessary records and registers prescribed by programme coordinator of the university.
- He/She will ensure that the basic aims of NSS programme i.e. personality development of NSS volunteers, interaction of the different classes of the society take place harmoniously and the NSS volunteers and community are benefited from the activities of NSS unit.
- He/She will convene the meeting of the college advisory committee in consultation with the Principal of the institution as laid down in the NSS manual.

Training and Placement Committee

Objective: To help the Training and Placement Office in conducting and coordinating campus placement process as well as training programs in the college.

Constitution of Committee:

- Training & Placement Officer
- Representative from Each department (1 to 2)
- · Placement Co-ordinator

Frequency of Meetings: As per the need

Functions and Responsibilities:

- · Conducting Aptitude tests for the students and as when required on behalf companies for recruitment process.
- Assembling students for placement.
- · Assist in setting up laboratories for on-line recruitment tests.
- Updating T & P data on the department level from time to time.
- · Interacting with corporate for Internship and projects

Alumni Committee:

Objectives:

- To significantly increase alumni interaction with the institution.
- · Fostering and keeping alive loyalty to the institution and creating concern for its welfare.
- Inculcate exchange of ideas among alumni and between alumni and students
- · To assist current students to achieve their goals by means of mentorship and entrepreneurship setup through Alumni.

Frequency of Meetings: Once in an academic year

Functions and Responsibilities:

- To maintain an up-to-date and detailed database of the alumni.
- To highlight the success of alumni to improve the credibility and reputation of the university.
- Plan and promote a platform for interaction between all stakeholders.
- Promote the interests and welfare of alumni association.
- · Maintain healthy relationship with the alumni body.
- · Assist management in creating an environment in the college which is enables student to have long-lasting memories.

Institute Innovation Cell:

Objective: To develop entrepreneurial zeal among the students on a continuous basis and prepare them to undertake independent technology development or self-employment during the course of their work life.

Scope: Develop necessary knowledge for an entrepreneurial career, assimilate adequate skills in the total project management area of an enterprise and acquire a drive or motivation to pursue self-employment inspired by self-actualization in spite of the elements of the hardship and risk involved in it.

Responsibilities: E-Cell will be responsible for conducting various interventions and academic programs to impart knowledge, skill and attributes which will help in innovation, problem solving, technology development, project management, entrepreneurial motivation. It will also provide supporting systems including laboratories, innovation kits etc.

Work Environment: Work environment include the innovative mini projects and final year practical assignments undertaken by students, and independent creative projects undertaken by the motivated group of students in their respective technology areas or projects of multidisciplinary nature. Organizations like National R&D Labs, Defense research Labs, Industry, Dept of Science and Technology, Technology Organizations etc

The Process: The students who are interested and also have an aptitude for entrepreneurship and self-employment are selected and admitted for internship in the E-cell. Three modules of academic inputs are given to them during the first two years by qualified internal faculty and external experts.

Universal Human Values Cell:

Objectives: To create awareness of a humane approach, reasoning, moral coherence, and propagate a value system based on generosity, benevolence and tolerance for fellow human beings.

Constitution of Cell: Members from teachers (2 to 4)

Frequency of Meetings: As per the need

Functions and responsibilities:

- Organizing Students Induction Program
- · Enabling the students to make decisions on the basis of sound moral principles.
- Conducting various workshops and seminars by Eminent personalities for students as well as faculty members.

Position	Functions
Dean Academic	Coordinating the activities of HODs, admin, and faculty Developing and maintaining academic policies Providing academic support to students Developing and implementing strategic plans to ensure overall academic success
Dean R & D	To make the students and the faculty members aware of the latest advancements in technology. To encourage research competence and research activities undertaken in the Institute. To provide engineering consultancy and research in various innovative areas and foster research collaborations within the faculties and or across the faculty and institutes for pioneering research in field of Science & Technology. To enhance the engineering education with research orientation.
Dean Administration	New Proposal with AICTE, DTE and University Maintain minutes of meeting (all) Co – ordinate day to day activities of office AICTE, DTE, University committee preparation Extension of Approval and Affiliation to University

	Plan and execute academic activities of the department
	Maintain discipline and culture in the department
	Maintain the department neat and clean
	Pick and promote strengths of students / faculty / staff
	Monitor academic activities of the department
	Propose Department Budget
Head of Department	Adhere to IQAC Procedures
	Maintain records of departmental activities and achievements
	Monitoring of lectures and practical
	Conduction of internal examinations
	Students feedback
	Collective attendance of students
	Co-ordinate the activities of class teachers

10.1.4 Delegation of financial powers (10)

Institute Marks: 10.00

- Head of Institution is authorized to make payments of Staff Salary, Statutory Payments, AICTE / DTE / University, Payment to vendors.
- All Head of Departments are authorized to use of Petty cash of Rs, 5000/- and Department Level Meeting expenses (Department / Parents Meeting / Alumni / Academic Audit or Meeting / DAB)

Designation	Financial Power	Utilization of Financial Power in Rs.		
Designation	Financial Fower	2022 - 23	2021 - 22	2020 - 21
	Staff Salary	391888191	141325475	151062615
	Provident Fund	4586283	3658138	2848950
	Gratuity	2485347	7648764	2832462
	GSLI	211200	227400	247200
	AICTE	877051	1150529	59000
	DTE	415180	440200	-
	University	643700	1562182	339000
Principal	Examination	4841479	2438323	3523902
	Property Tax	2747579	2747579	2457479
	Payment to vendors for all purchases & Maintenance	30967083	8911521	4057432
	Electricity Bills	2851704	1594572	1672483
	Water Bills	355652	120111	109873
	Telephone Bills	112084	207548	137554
	Staff Welfare	1522250	254337	379846
	Contingent Expenses	33880550	22035985	11668844
	Authorization of a petty cash of Rs.5000/-	5000	5000	5000
Head of Department	Staff Welfare (Expenses towards Department Meeting)	76000	75000	7000
Department	Expenses towards Parents Meeting	40712	131596	-
	Expenses towards Alumni Meet	17000	144681	

10.1.5 Transparency and availability of correct/unambiguous information in public domain (5)

Institute Marks : 5.00

All information is displayed on the Institute website as per the Mandatory Disclosure requirement of AICTE. The information relating to faculty strength, results, administrative structure etc.is displayed on the site. (Mandatory Disclosure | Rgit Site New 2023 (metrgit.ac.in) (https://www.metrgit.ac.in/mandatory-disclosure)

The college website ensures that all information's pertaining to students, staff in the website committee to ensure that all stake holders are adequately informed about the policies and procedures along with the developments taking place that could affect them.

All the information pertaining to the admissions, faculty and supporting staff details, student attendance, internal marks, infrastructural facilities, details of programs, information related to ongoing student training programs, faculty development programs, symposiums etc., are made available in the college website / brochures / E-Notice Board.

Summary of currentfinancial year's budget and actual expenditure incurred(for the institution exclusively)in the three previous financial years

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3

CFY: (Current Financial Year),

CFYm1 : (Current Financial Year minus 1), CFYm2 : (Current Financial Year minus 2) and CFYm3 : (Current Financial Year minus 3)

Table 1 - CFY 2023-24

Total Income 217902979		Actual expenditure(till): 1	Total No. Of Students 1845				
Fee	Govt. Grants Other sources(specify) Bank Interest and Miscellaneous Recurring including Salaries Non Recurring		Non Recurring	Special Projects/Anyother, specify	Expenditure per student		
206068187	0	0	11834792	142115203	9800813	0	82339.30

Table 2 - CFYm1 2022-23

Total Income 244581126			Actual expenditure(till): 245986482			Total No. Of Students 2097	
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
238398646	0	0	6182480	224131989	21854493	0	117304.00

Table 3 - CFYm2 2021-22

Total Income 226330192			Actual expenditure(till): 195205523			Total No. Of Students 2088
Fee	-ee Govt Grants '' ''				Special Projects/Anyother, specify	Expenditure per student
223068329	68329 0 0 3261863 190950492 4255031 0		0	93489.24		

Table 4 - CFYm3 2020-21

Total Income 212076388			Actual expenditure(till): 181878470			Total No. Of Students 2071	
Fee	Govt.	Grants	Other sources(specify) Bank Interest and Miscellaneous	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
201864387	0	0	10212001	180394232	1484238	0	87821.57

Items	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till	Budgeted in 2021-22	Actual Expenses in 2021-22 till	Budgeted in 2020-21	Actual Expenses in 2020-21 till
Infrastructure Built-Up	15000000	0	6920124	3679143	2157263	1133380	2660900	0
Library	850000	0	1035000	65657	600000	8309	400000	30808
Laboratory equipment	15287317	1849494	14005000	19526862	13336000	4246722	14586000	1436910
Laboratory consumables	895325	799773	755000	1562692	1600000	756982	1504300	426930
Teaching and non-teaching staff salary	190519258	116752598	168900000	156162083	168900000	148932346	168900000	149323417
Maintenance and spares	1108400	5452957	770000	3161650	2564000	2766128	2499800	1932962
R&D	900000	198509	500000	900	400000	0	0	0
Training and Travel	0	762380	0	0	0	1770672	0	1574579
	0	93485	0	40230	0	0	0	0
Others, specify	35151700	26006820	36715000	61787265	34631000	35590984	31769000	27152864
Total	259712000	151916016	229600124	245986482	224188263	195205523	222320000	181878470

10.2.1 Adequacy of budget allocation (10)

Institute Marks: 10.00

- · The budget allocated for staff salary, administrative expenses, and academic activities is adequate and sufficient.
- · Budget is allotted to each department towards up-gradation of laboratories, laboratory consumables and repair of laboratory equipment etc., internal adjustments are made as per the urgency,
- . The allocated budget shall always adequate and the budget gets sanctioned based on the budget predictions given by the department for every academic year.

Sr. No.	Assessment Year	Total Liabilities in Lakhs (Rs.)	Allocated Budget in Lakhs (Rs.)
1	2022 – 2023	2000.00	2296.00
2	2021 – 2022	2000.00	2241.88
3	2020 - 2021	2000.00	2223.20

10.2.2 Utilization of allocated funds (15)

Institute Marks: 15.00

- · Head of Departments are intimated about the funds allocated against their budget proposals. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables etc. are initiated from the respective departments and the funds are released on proposal basis from the accounts office of the college on approval by the Principal.
- · Major works like construction, up gradation of existing infrastructure, procurement and maintenance of common utilities, house-keeping, procurement of furniture etc. are controlled by the
- · During the last three years, the budget was utilized to meet expenses such as staff salaries, infrastructure development, purchase of equipment, expenses towards consumables and
- The details of budget allocation, sanction and expenditure statement of last 3 years as shown in 10.2.

Sr. No.	Assessment Year	Allocated Budget in Lakhs (Rs.)	Utilization in Lakhs (Rs.)	Adequate / Non Adequate
1	2022 – 2023	2296.00	2459.86	Adequate
2	2021 – 2022	2241.88	1952.05	Adequate
3	2020 – 2021	2223.20	1818.78	Adequate

10.2.3 Availabilit	y of the audited statements on the institute's website	(5))
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Institute Marks: 5.00

YES and URL is https://www.mctrgit.ac.in/

10.3 Program Specific Budget Allocation, Utilization (30)

Total Marks 30.00

Institute Marks :

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3

CFY: (Current Financial Year),

CFYm1 : (Current Financial Year minus 1), CFYm2 : (Current Financial Year minus 2) and CFYm3 : (Current Financial Year minus 3)

Table 1 :: CFY 2023-24

64928000		Actual expenditure (till): 37979004		Total No. Of Students 557
Non Recurring Recurring		Non Recurring	Recurring	Expenditure per student
4701004 60226996		2450203	35528801	68184.93

Table 2 :: CFYm1 2022-23

57400031		Actual expenditure (till): 61496620		Total No. Of Students 592
Non Recurring Recurring		Non Recurring	Recurring Expenditure per student	
4092500	53307531	5463623	56032997	103879.43

Table 3 :: CFYm2 2021-22

56047066		Actual expenditure (till): 48801381		Total No. Of Students 597
Non Recurring Recurring		Non Recurring	Recurring	Expenditure per student
3502750	52544316	1063758	47737623	81744.36

Table 4 :: CFYm3 2020-21

55580000		Actual expenditure (till): 45469618		Total No. Of Students 607
Non Recurring Recurring		Non Recurring	on Recurring Expenditure per student	
3761250	51818750	371060	45098558	74908.76

Items	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till	Budgeted in 2021-22	Actual Expenses in 2021-22 till	Budgeted in 2020-21	Actual Expenses in 2020-21 till
Laboratory equipment	3821829	462374	3501250	4881716	3334000	1061681	3646500	359228
Software	448750	424019	713750	166073	162750	72570	76500	19240
Laboratory consumable	223831	199943	188750	390673	400000	189246	376075	106733
Maintenance and spares	277100	1363240	192500	790413	641000	691532	624950	483241
R&D	225000	49627	125000	225	100000	0	0	0
Training and Travel	0	190595	0	0	0	442668	0	393645
	0	23371	0	10058	0	0	0	0
Total	4996510	2713169	4721250	6239158	4637750	2457697	4724025	1362087

10.3.1 Adequacy of budget allocation (10)

The budget allocated for staff salary, administrative expenses, and academic activities is adequate and sufficient.

Budget is allotted to each department towards up-gradation of laboratories, laboratory consumables and repair of laboratory equipment etc., internal adjustments are made as per the urgency, in specific cases.

• The allocated budget shall always adequate and the budget gets sanctioned based on the budget predictions given by the department for every academic year.

Sr. No.	Assessment Year	Total Liabilities in Lakhs (Rs.)	Allocated Budget in Lakhs (Rs.)
1	2022 – 2023	500.00	574.00
2	2021 – 2022	500.00	560.47
3	2020 – 2021	500.00	555.80

10.3.2 Utilization of allocated funds (20)

Institute Marks: 20.00

- Department Heads are intimated about the funds allocated against their budget proposals. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables etc. are initiated from the respective departments and the funds are released on proposal basis from the accounts office of the college on approval by the Principal.
- Major works like construction, up gradation of existing infrastructure, procurement and maintenance of common utilities, procurement of furniture etc. are controlled by the Principal.
- During the last three years, the budget was utilized to meet expenses such as purchase of equipment, expenses towards consumables and contingencies, travel etc.
- The details of budget allocation, sanction and expenditure statement of last 3 years as shown in 10.3.

Sr. No.	Assessment Year	Allocated Budget in Lakhs (Rs.)	Utilization in Lakhs (Rs.)	Adequate / Non Adequate
1	2022 – 2023	574.00	614.96	Adequate
2	2021 – 2022	560.47	488.00	Adequate
3	2020 – 2021	555.80	454.69	Adequate

10.4 Library and Internet (20) Total Marks 20.00

Print

10.4.1 Quality of learning resources (hard/soft) (10)

Institute Marks: 10.00

Details of Library Facitilty

Carpet area of Library (in m ²):	804 sqm
Reading Space (in m ²):	247sqm
Number of Seats in reading space:	150 students
Number of Users (issue book) per day:	20 (on average)
Number of Users (Reading space) per day:	40 (on average)
Timings: During working day, weekend, and vacation:	8.15 am to 5.30 pm
Number of library Staff	07
Number of library staff with a degree in Library Management	05
Computerization for search, indexing, issue/return	Yes
Records Bar-coding used?	Yes
Library services on internet/intranet INDEST or other similar membership achieves	Turnitin & ASME/ IEEE and IIT Availability of Digital Library Contents: Yes CD: 4000
Total number of NDIL	1639

Sr. No.	Digital Contents	Availability
1.	Project Reports	350
2.	University Question Papers	Since 2001 for all semester
3.	Syllabus	All editions

Availability of an exclusive server: 01

Availability over intranet/ internet: Yes

Availability of exclusive space/ room: Yes

Number of users per day: 40

		Expenditures (Rs. In Rupees)		
Year	Book	Magazine / Journals (for hard copy subscription)	Magazine / Journals (for soft copy subscription)	Misc. Contents	Comments
2022 – 23	59197.00	40743.00	212056.00	35400.00	Students and staff are encouraged to use journals and
2021 – 22	9645.00	40991.00	108174.00	53100.00	periodicals. Many staff use journals for their research
2020 – 21	2475.00	-	-	50000.00	activity and students for their final year projects.

Details of Internet Facility

Sr. No.	Service Provider	Speed	Served At
1	Hathway Internet	150 Mbps	Whole Campus
2	Adtech Internet	150 Mbps	Whole Campus
3	Jio Internet	10 Mbps	Whole Campus
4	Seven Star Digital	100 Mbps	Principal Office
5	Seven Star Digital	50 Mbps	Accounts
6	Seven Star Digital	100 Mbps	Administration
7	Seven Star Digital	150 Mbps	Conference Room
8	Seven Star Digital	150 Mbps	Management Office
9	Seven Star Digital	50 Mbps	AI&DS Lab
10	Seven Star Digital	150 Mbps	Project Room
11	Seven Star Digital	150 Mbps	Stationery
12	Seven Star Digital	300 Mbps	B-11 Computer Lab

13	Seven Star Digital	100 Mbps	Exam Cell
14	Seven Star Digital	300 Mbps	Lab-6 C35

10.4.2 Internet (10) Institute Marks : 10.00

Name of the Internet provider	Hathway, Adtech, Jio and Seven Star Digital
Available band width	310 Mbps
WiFi availability	Yes 50 to 300 Mbps
Internet access in labs, classrooms, library and offices of all Departments	Yes
Security arrangements	Yes

Annexure I (A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

- 1. Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. **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.
- 3. **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.
- 4. 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.
- 5. **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.
- 6. 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.
- 7. 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.
- 8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. **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.
- 11. **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.
- 12. 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 OUTCOME (PSOs)

PS	SO1	An ability to apply the knowledge of computer engineering in the multidisciplinary fields and make IT enabled.
PS	502	An ability to solve complex computer engineering problems using latest technical tools with analytical skills for achieving optimized solutions to encourage research.

Declaration

The head of the institution needs to make a declaration as per the format given -

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute willbe initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute

Name : Dr. Sanjay U Bokade Designation : Principal Signature :

que.

Seal of The Institution:



Place: RGIT, Mumbai Date: 29-12-2023 09:52:41