SELF ASSESSMENT REPORT

FOR ACCREDITATION OF UNDERGRADUATE ENGINEERING PROGRAMME (TIER-II)

DEPARTEMNT OF COMPUTER SCIENCE AND ENGINEERING

Submitted to

NATIONAL BOARD OF ACCREDITATION

Estd: 1992

Dr. J. J. Magdum College of Engineering (Autonomous)

(Approved by A.I.C.T.E., New Delhi, Recognized by Govt. of Maharashtra (DTE) ,
Affiliated to Shivaji University, Kolhapur **and NAAC 'B+' Grade Accredited)**

Gat No. (314/330),Shirol – Wadi Road,(Agar Bhag),
Jaysingpur : 416101,Tal : Shirol,
Dist : Kolhapur. State: Maharashtra

2024

SAR Contents

PART A

Institutional Information

Part A: Institutional Information

1 Name and Address of the Institution: Dr. J. J. Magdum College of Engineering, Jaysingpur, Gat No. 289(314/330), Shirol-Wadi Road, Jaysingpur

2 Name and Address of Affiliating University: Shivaji University Kolhapur

3 Year of establishment of the Institution: 1992

4 Type of the Institution: Affiliated

5 Ownership Status: Self financed

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

Sr. No.	Name of Institutions	Year of Establishment	Programs of Study	Location
01	Jayprabha English Medium School	1972	Std I to Std X	Jaysingpur
02	Dr J J Magdum Homoeopathic Medical College	1992	Bachelor of Homoeopathy	Jaysingpur
03	Dr J J Magdum Pharmacy College	1993	Diploma in Pharmacy	Jaysingpur
04	Late Anil alias Pintu Magdum Pharmacy College	2003	Diploma in Pharmacy	Jaysingpur
05	Dr J J Magdum Ayurvedic College	2005	Bachelor of Ayurveda	Jaysingpur
06	Dr J J Magdum Institute of Nursing Education	2008	ANM, GNM , BSc Nursing, PB BSc.	Jaysingpur
07	Dr J J Magdum Highschool and Junior College	2013	XI and XII standard Science	Jaysingpur
08	Dr J J Magdum Pharmacy (B Pharmacy)	2020	Bachelor of Pharmacy	Jaysingpur

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	To	Program for consideration	Program for Duration
Computer Science and Engineering	UG	1998	1998	60	No	60	Eligible but not applied			Yes	4

Sanctioned Intake for Last Five Years for Computer Science and Engineering	
Academic Year	**Sanctioned Intake**
2023-24	60
2022-23	60
2021-22	60
2020-21	60
2019-20	60

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Civil Engineering
2	Under Graduate	Engineering & Technology	Computer Science & Engineering
3	Under Graduate	Engineering & Technology	Electronics & Telecommunications Engineering

9 Total number of employees in the institution:

A. Regular* Employees (Faculty and Staff):

Items	2023-24		2022-23		2021-22	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	35	35	47	47	62	62
Faculty in Engineering (Female)	38	38	36	36	40	40
Faculty in Maths, Science & Humanities (Male)	05	05	06	06	06	06
Faculty in Maths, Science & Humanities (Female)	04	04	04	04	04	04
Non-teaching staff (Male)	64	64	51	51	56	56
Non-teaching staff (Female)	11	11	12	12	08	08

B. Contractual* Employees (Faculty and Staff):

Items	2023-24		2022-23		2021-22	
	MIN	MAX	MIN	MAX	MIN	MAX

Faculty in Engineering (Male)	0 0	0 0	0 0	0 0	0 0	0 0
Faculty in Engineering (Female)	0 0	0 0	0 0	0 0	0 0	0 0
Faculty in Maths, Science & Humanities (Male)	0 0	0 0	0 0	0 0	0 0	0 0
Faculty in Maths, Science & Humanities (FeMale)	0 0	0 0	0 0	0 0	0 0	0 0
Non-teaching staff (Male)	0 0	0 0	0 0	0 0	0 0	0 0
Non-teaching staff (FeMale)	0 0	0 0	0 0	0 0	0 0	0 0

10   Total number of Engineering Students:

Engineering and Technology- UG Shift-1

Items	2023-24	2022-23	2021-22
Total no. of Boys	621	764	930
Total no. of Girls	438	349	467
Total	**1059**	**1113**	**1397**

Engineering and Technology- PG Shift-1

Items	2023-24	2022-23	2021-22
Total no. of Boys	9	6	11
Total no. of Girls	3	5	9
Total	**12**	**11**	**20**

Engineering and Technology- MCA Shift-1

Items	2023-24	2022-23	2021-22
Total no. of Boys	54	34	0
Total no. of Girls	47	28	0
Total	**101**	**62**	**0**

11   Vision of the Institution:

To be a leading academic organization creating skilled and ethical human resource by leveraging technical education for sustainable development of society

12   Mission of the Institution:

1. To produce competent technocrats to meet modern societal and industrial challenges
2. To create ethical and skilled human resources through quality education and various extension activities and outreach programs
3. To leverage technical expertise to solve societal issues for its sustainable development

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

Head of the Institution	
Name	Dr. G. V. Mulgund
Designation	Principal
Mobile No.	7588839791
Email ID	principal@jjmcoe.ac.in

☑ **NBA Coordinator, If designated**

Name	Dr. S. B. Patil
Designation	Professor
Mobile No.	9422618670
Email ID	shubhangi.patil@jjmcoe.ac.in

PART B

CRITERIA 1

Vision Mission and Program Educational Objectives

CRITERION 1	Vision, Mission and Program Educational Objectives

1. Vision, Mission And Program Educational Objectives

1.1 State the Vision and Mission of the Department and Institute

Institute Vision and Mission:

VISION

To be a leading academic organization, creating skilled and ethical human resources by leveraging technical education for sustainable development of society.

MISSION

M1. To produce competent technocrats to meet modern societal and industrial challenges.

M2. To create ethical and skilled human resources through quality education and various extension activities and outreach programs.

M3. To leverage technical expertise to solve societal issues for its sustainable development.

Department Vision and Mission:

VISION

To be the front runner in the field of Computer Science and Engineering to create skilled, knowledgeable and ethical professionals for development of society.

MISSION

M1: To provide quality education with smart tools to face challenges of industry and society.

M2: To create ethical human resources to provide service to the community.

M3: To associate with industry for giving opportunities to students to develop their employability and entrepreneurial skills.

Department Vision and Mission statements consistency with that of the Institute:

Institute	Department
Vision statement	
To be a **leading academic organization,** creating Skilled and Ethical Human Resource by leveraging **Technical Education** for Sustainable Development of **Society**.	To be the **front runner** in the field of computer science and engineering **to create skilled, knowledgeable and ethical professionals** for the development of **society**.
Mission statements	
M1. To produce **Competent Technocrats** to meet modern societal and **industrial challenges.**	**M1**. To provide quality education with smart tools to face **challenges of industry** and society.
	M3. To associate with **industry** for giving opportunities to students to develop their **employability and entrepreneur skills.**
M2. To create **ethical and skilled human resources** through quality education and various extension activities and outreach programs	**M2**. To create **ethical human resources** to provide service to the community.
M3. To leverage **technical expertise** to solve **societal issues** for its Sustainable Development	**M2**. To create **ethical human resources** to provide service to the community.
	M3. To associate with **industry** for giving opportunities to students to develop their employability and entrepreneur skills.

1.2 State the Program Educational Objectives (PEOs)

PEO1. Graduates of the program will apply their foundational engineering knowledge to achieve success in their careers.

PEO2. Graduates of the program will consistently demonstrate core technological expertise in computing throughout their careers

PEO3. Program graduates will fulfill professional requirements, explore higher education prospects, and exhibit understanding of the complexities of self-employment.

PEO4. Graduates of the program will uphold ethical standards, engage in lifelong learning, and remain attentive to societal needs.

1.3 Indicate where Vision, Mission and PEOs are published and disseminated among stakeholders

The Vision and Mission of the institute are published and displayed at following locations:

 • The Institute brochure

• Institute website (http://www.jjmcoe.ac.in)

• Administrative offices

• Office of head of the department

• All department notice boards

The Vision, Mission and PEOs of the department are published at following locations:

• Departmental webpage

• Departmental E-Newsletter

• Students Information Manual (SIM)

• Department notice board and Corridors

• Academic diaries, Course files

• Seminar hall and laboratories

<u>Process of Dissemination</u>

Process of dissemination of Vision, Mission & PEOs among stakeholders are as explained in flow chart in figure 1.3.1.
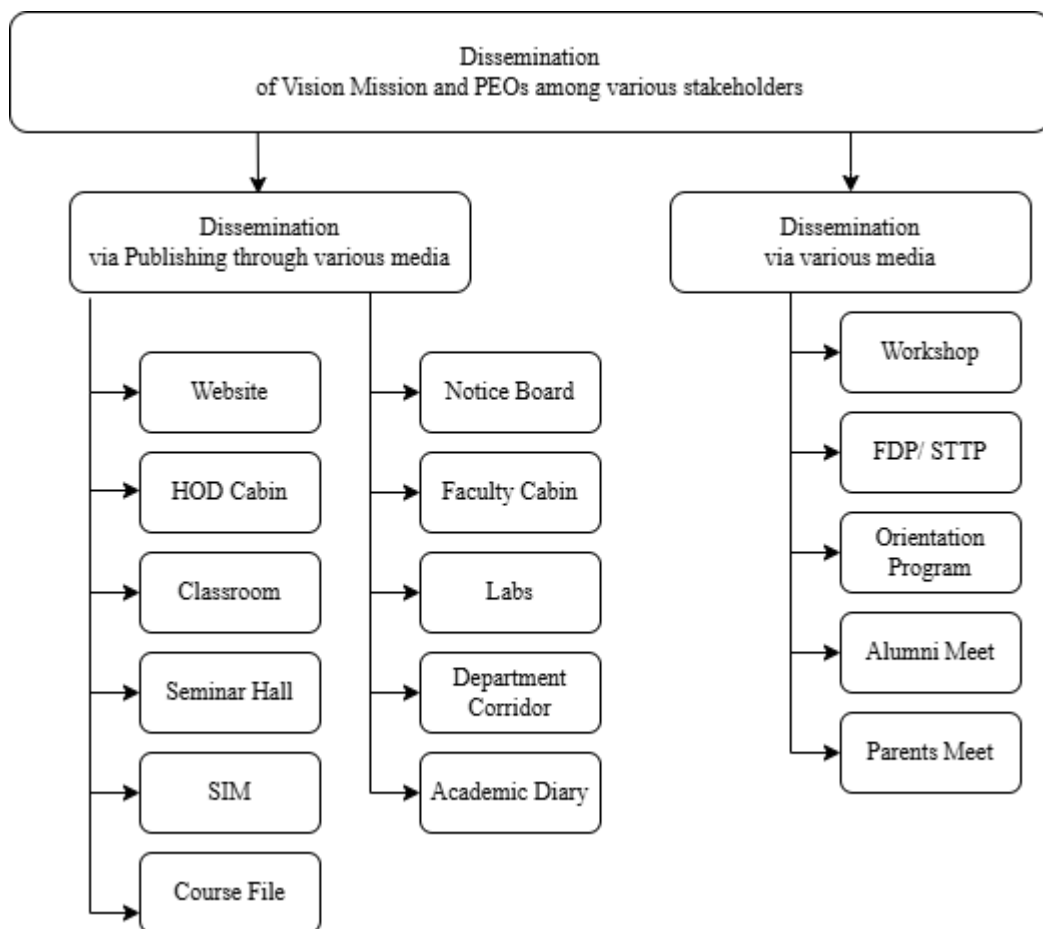
Fig.1.3.1: Process of dissemination among various stakeholders

Vision, Mission and PEOs are disseminated / discussed among stakeholders during administrative meetings, departmental meetings, and student association functions. At the beginning of academic year, every faculty and staff members are explained about vision and mission to students. The vision and mission statements are explicitly communicated to the newly enrolled students. The vision and mission statements are explicitly communicated to parents during orientation program, induction program, parent meeting. Alumni will be updated about modifications in vision mission during Alumni interaction, alumni meet if any. During placement activity, the vision and mission statements are explicitly communicated to all employers

1.4 State the process for defining the Vision and Mission of the Department and PEOs of the Program

Process for defining the Vision and Mission of the Department is as below:

The process adopted in defining the vision and mission of the department is illustrated in Figure 1.4.1.

• Institute's Vision and Mission are considered as benchmark.

• Firstly, in a faculty & staff meeting tentative statements of vision and mission have been written keeping in mind vision and mission statements of Institute.

• All the faculty and staff members have taken note of it and each faculty member has been asked to go through vision and mission statement thoroughly and give their suggestions about the same then after many brainstorming sessions, draft vision and mission has been prepared.

• Draft statements of Department Vision & Mission are framed aligned with the Institute's Vision and Mission statements.

• Views are taken from Internal stakeholders and External stakeholders like Parents, Industry Experts, Students, Alumni in Department Advisory Board (DAB) meeting.

• After the consideration of the collected views and opinions; reviews statement of vision and mission has been rectified.

•The approved version is further sent to Internal Quality Assurance Cell (IQAC) for approval.

• After the approval from the IQAC Vision and Mission statements will be published and disseminated
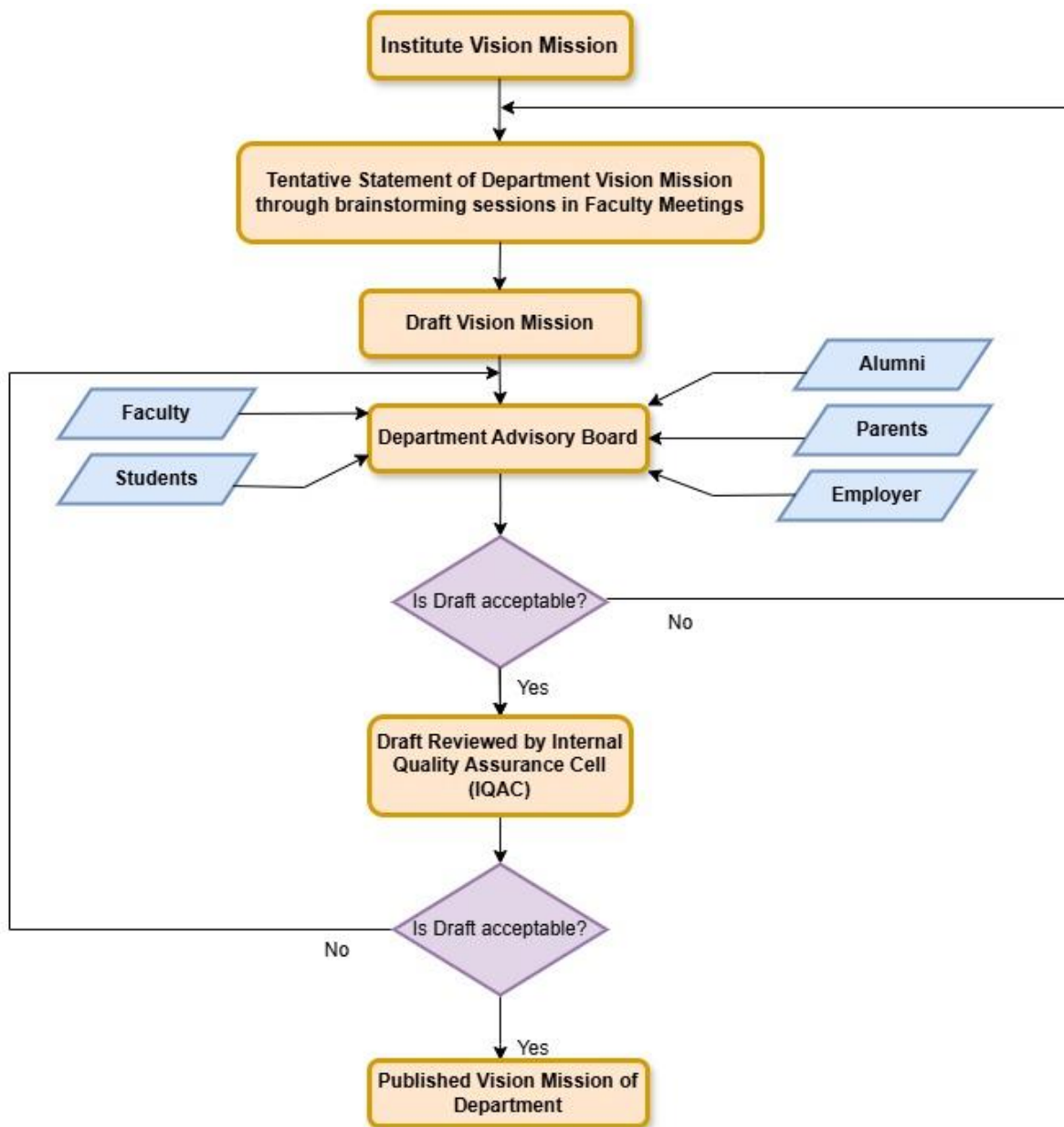
Fig.1.4.1: Process for defining departmental Vision and Mission

Process for defining the Department Program Educational Objectives (PEOs) is illustrated in Figure 1.4.2. Department Vision and Mission are considered as benchmark. Firstly, in a faculty & staff meeting tentative statements of Program Educational Objectives (PEOs) have been written keeping in mind vision and mission statements of Department. All the faculty and staff members have taken note of it and each faculty member has been asked to go through vision and mission statement thoroughly and give their suggestions about the same then after many brainstorming sessions, draft Program Educational Objectives (PEOs) have been prepared. Draft statements of Program Educational Objectives (PEOs) are framed aligned with the Department Vision and Mission statements. Views are taken from Internal stakeholders

and External stakeholders like Parents, Industry Experts, Students, Alumni in Department Advisory Board (DAB) meeting. After the consideration of the collected views and opinions, reviews statement of PEOs have been rectified. The approved version is further sent to Internal Quality Assurance Cell (IQAC) for approval. After the approval of the IQAC Program Educational Objectives statements will be published and disseminated.
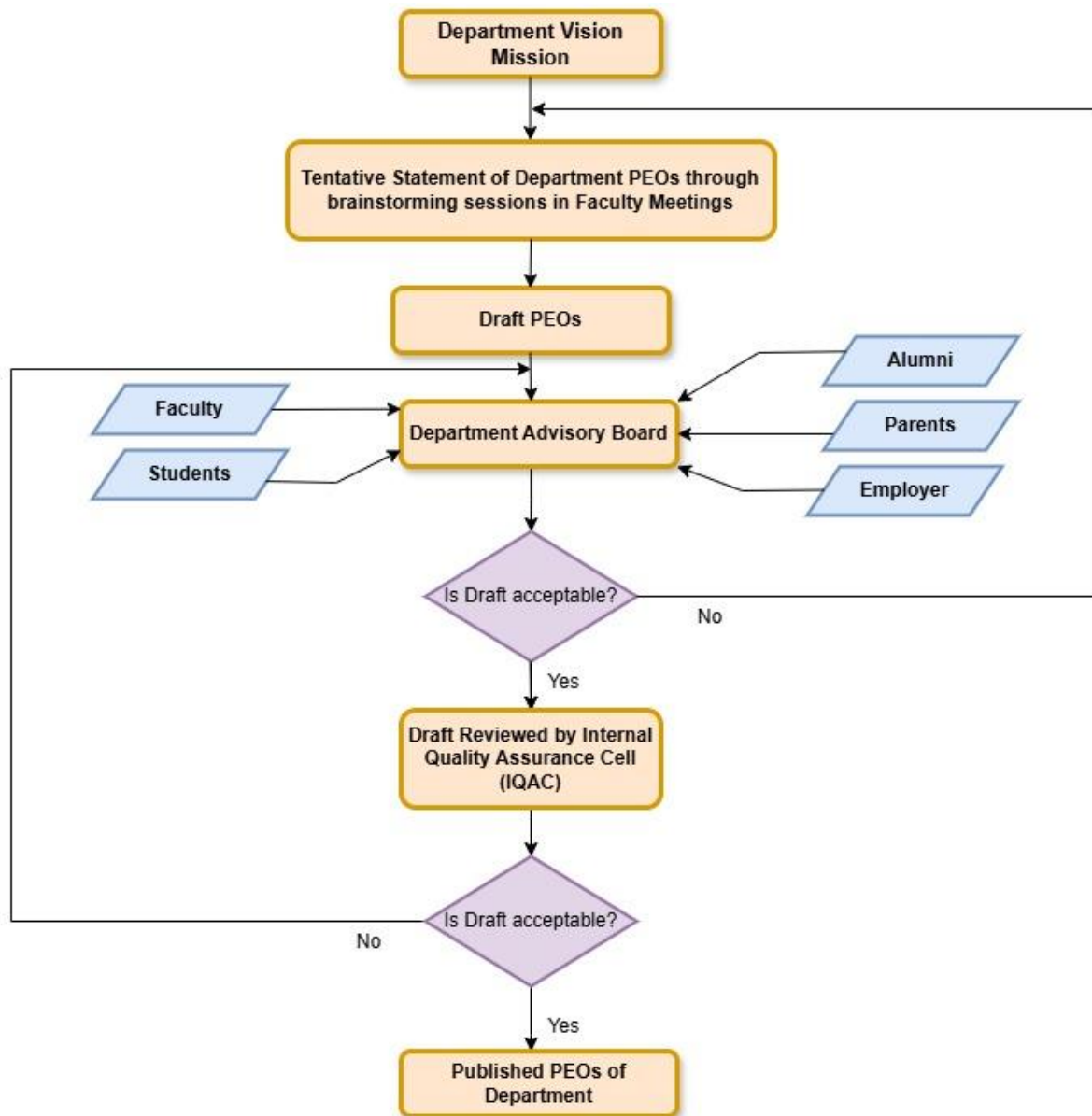
Fig.1.4.2: Process of Establishing Program Educational Objectives (PEO's) of the Department

1.5 Establish consistency of the PEOs with the Mission of the Department

a.   Matrix of PEOs and Elements of Mission Statements

(PEOs)	Program Educational Objectives (PEOs)	Mission of the Department		
		To provide quality education with smart tools to face challenges of industry and society.	To create ethical human resources to provide service to the community.	To associate with industry for giving opportunities to students to develop their employability and entrepreneur skills.
		M1	M2	M3
PEO1	Graduates of the program will apply their foundational engineering knowledge to achieve success in their careers	3	3	3
PEO2	Graduates of the program will consistently demonstrate core technological expertise in computing throughout their careers.	2	2	3
PEO3	Program graduates will fulfill professional requirements, explore higher education prospects, and exhibit understanding of the complexities of self-employment.	3	3	3
PEO4	Graduates of the program will uphold ethical standards, engage in lifelong learning, and remain attentive to societal needs.	2	2	2

Correlation Levels Are 1-Slight/Low, 2-Moderate/Medium, 3-Substinal/High

b. Consistency/justification of co-relation parameters of the above matrix

PEO	Mission	Correlation level	Justification
PEO1: Graduates of the program will apply their foundational engineering knowledge to achieve success in their careers	**M1**. To provide quality education with smart tools to face challenges of industry and society.	3	The department invites prominent experts from industry and institutes to conduct workshops, seminars and technical talks for the students to engage in continuous learning in their profession.
	M2. To create ethical human resources to provide service to the community.	3	Promotion of team engagement and creative activities lead to enhanced teamwork and leadership quality.
	M3. To associate with industry for giving opportunities to students to develop their employability and entrepreneur skills.	3	The department invites prominent experts from industry to conduct technical talks and soft skill trainings for the students.
PEO2: Graduates of the program will consistently demonstrate core technological expertise in computing throughout their careers.	**M1**. To provide quality education with smart tools to face challenges of industry and society.	2	Students explore new technologies and applications and are able to solve real life problems through mini projects and projects.
	M2. To create ethical human resources to provide service to the community.	2	Extra-curricular activities, Sport activities, NSS activities and various activities under student associations like COMPESA and CSI are promoted between students for overall development.

	M3. To associate with industry for giving opportunities to students to develop their employability and entrepreneur skills.	3	Students are motivated to publish their research papers in various publications based on recent research trends. Students are also driven to undergo internship to develop their employability and entrepreneur skills.
PEO3: Program graduates will fulfill professional requirements, explore higher education prospects, and exhibit understanding of the complexities of self-employment.	**M1**. To provide quality education with smart tools to face challenges of industry and society.	3	Students are groomed with quality training, Expert Lectures, Guest Lectures, and soft skills in their regular curriculum.
	M2. To create ethical human resources to provide service to the community.	3	Students are motivated for paper publication based on recent research trends, society needs.
	M3. To associate with industry for giving opportunities to students to develop their employability and entrepreneur skills.	3	Students are motivated by co-curricular activities to develop a student's professional attitude, communication skills and team work. This encourages them to work effectively in multidisciplinary environment
PEO4: Graduates of the program will uphold ethical standards, engage in lifelong learning, and remain attentive to societal needs.	**M1**. To provide quality education with smart tools to face challenges of industry and society.	2	Students are encouraged to do their final year project, third year Mini Projects based on needs of society and recent trends in research.
	M2. To create ethical human resources to provide service to the community.	2	Students are inspired to choose & implement their innovative ideas as a final year project as per new research trends or requirements of community. Students are also encouraged to go through internships in various

			industries to develop entrepreneurship skills
	M3. To associate with industry for giving opportunities to students to develop their employability and entrepreneur skills.	2	Students are groomed to participate in various technical competitions. Students are also encouraged to go through internships in various industries to develop entrepreneurship skills and employability.

CRITERIA 2

Program Curriculum and Teaching – Learning Processes

CRITERION 2	Program Curriculum and Teaching – Learning Processes	60

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 mentioned in Annexure I. Also mention the identified curricular gaps, if any (10)

A. The institute is affiliated to Shivaji University Kolhapur (SUK), Maharashtra. The program curriculum is a composition of Basic sciences, humanities and social sciences, professional courses and their distribution as core and electives with the specified breadth and depth of learning. The curriculum is formulated and reviewed once in 4 years through the Board of Studies (BoS), Computer Science, Engineering & Technology, Shivaji University, Kolhapur. The components of the curriculum are shown in table 2.1.1 and components of AICTE sample curriculum are shown in table 2.1.2

Sr. No	Course Components	Total No. of Credits	Curriculum Contents (%)
1	Basic Science and Humanities	05	11.62
2	Professional Core Courses	28	65.11
3	Project, Mini Project & internship	5	11.62
4	Professional Core electives	03	6.97
5	Open Elective Courses	02	4.65

Table 2.1.1 Components of the curriculum

Sr. No.	Category	Credit Break up for CSE Students
1	Humanities and Social sciences including Management Courses	16
2	Basic Science Courses	23
3	Engineering science Courses including workshop, drawing, basics of Electrical / Mechanical/ computer etc	29
4	Professional Core Courses	59
5	Professional Elective Courses relevant to chosen Specialization/branch	12
6	Open Subjects Elective from other technical and/ or emerging subjects	9

7	Project Work Seminar and internships in industry or elsewhere	15
8	Mandatory Courses (Environmental Sciences)	0

Table 2.1.2 Components of the curriculum (As per AICTE)
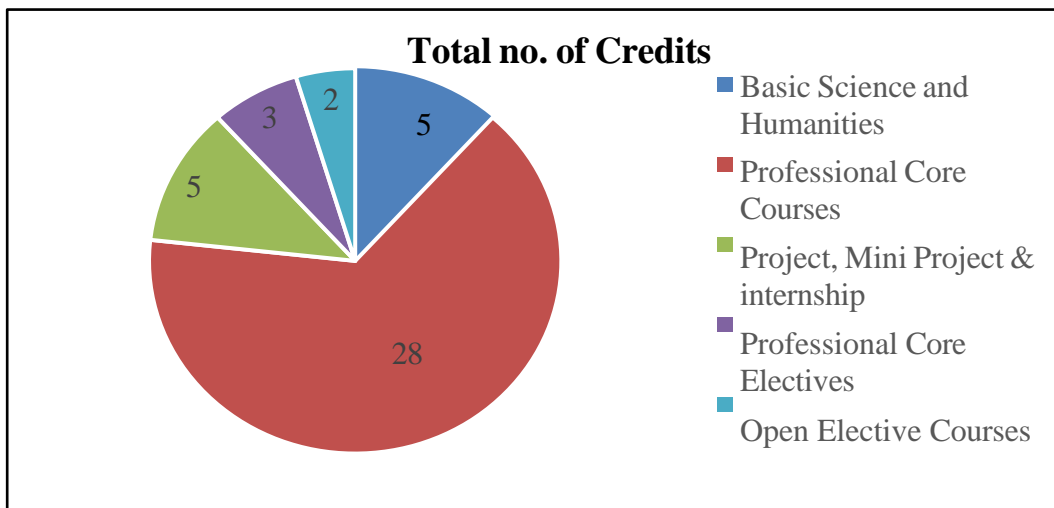
Fig 2.1.1 Components of Curriculum of University
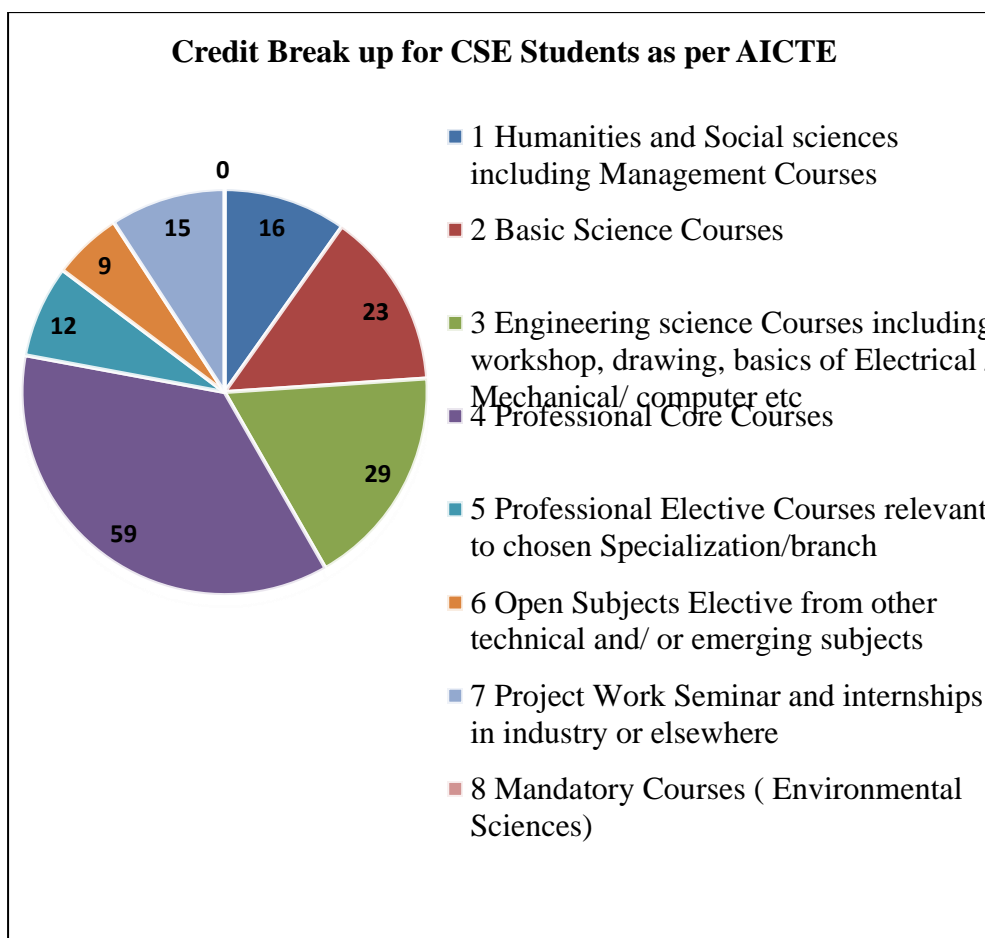
Fig 2.1.2 Components of Curriculum of AICTE

The process involved in assessment of extent of compliance to university curriculum in attaining the POs and PSOs is as below:

- The faculty members define Course Outcomes (COs) for their individual courses following the guidelines of the university curriculum.

- These COs undergo deliberation and approval during departmental meetings.

- The faculty then prepares a Course Outline aligned with the university curriculum, aligning COs with POs and PSOs.

- A comprehensive table that correlates POs and PSOs with all courses is prepared and is used as the basis for identifying gaps in the curriculum.

- The course codes are maintained in table 2.1.2 for mapping.

- The curriculum gaps are identified based on the mapping levels mentioned in Table 2.1.3

- The POs and PSOs of the program having less than 60% mapping are considered as 'Curriculum Gap'
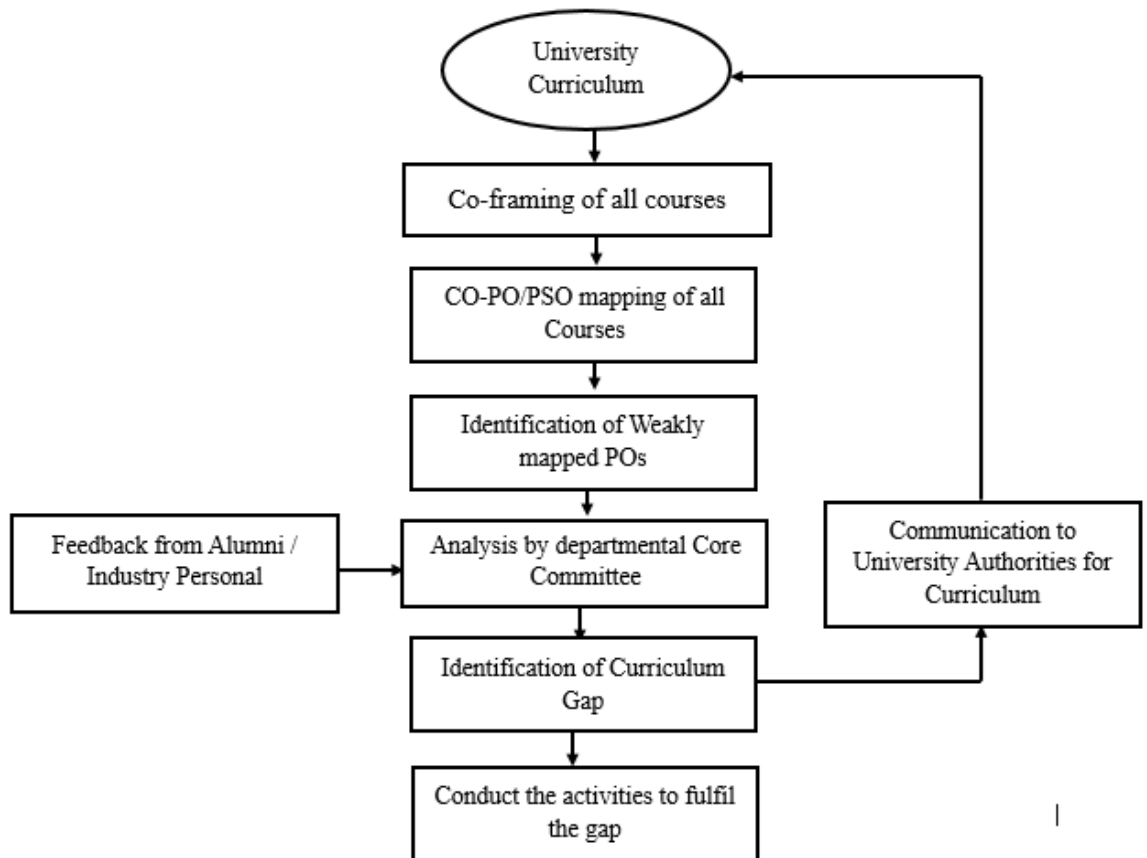
Fig 2.1.2 Process of compliance

Sr. No.	Curriculum Course Code (As per University)	Course Name	Course Code for mapping	Year
1	BSC-P-101/201	Engineering Physics	C101	1st Year
2	BSC-M-I-102	Engineering Mathematics-I	C102	
3	ESC-P-103/203	Basic Electrical Engineering	C103	
4	ESC-P-104/204	Basic Civil Engineering	C104	
5	ESC-P-105/205	Engineering Graphics	C105	
6	HM-I-106	Professional Communication-I	C106	
7	ESC-W-I-107	Workshop Practice-I	C107	
8	BSC-C-101/201	Engineering Chemistry	C108	
9	BSC-M-II-202	Engineering Mathematics-II	C109	
10	ESC-C103/203	Fundamentals of Electronics and Computer Programming	C110	
11	ESC-C104/204	Applied Mechanics	C111	
12	ESC-C105/205	Basic Mechanical Engineering	C112	
13	HM-II-206	Professional Communication-II	C113	
14	ESC-W-II-207	Workshop Practice-II	C114	
15	BSC-CV301	Applied Mathematics	C201	2nd Year
16	PCC-CS302	Discrete Mathematics & Structures	C202	
17	PCC- CS303	Data Structures	C203	
18	PCC- CS304	Computer Networks - I	C204	2nd Year
19	PCC- CS305	Microprocessors	C205	
20	PCC- CS306	C programming	C206	
21	HM- CS307	Soft Skills	C207	
22	PCC-CS401	Automata Theory	C208	
23	PCC- CS402	Computer Networks - II	C209	

24	PCC- CS403	Computer Organization and Architecture	C210	
25	PCC- CS404	Operating Systems - I	C211	
26	PCC- CS405	Software Engineering	C212	
27	PCC- CS406	Object Oriented Programming	C213	
28	PW- CS407	Mini Project	C214	
29	MC-CS408	Environmental Studies	C215	
30	PCC-CS501	Information Security	C301	
31	PCC- CS502	System Programming	C302	
32	PCC- CS503	Object-Oriented Modeling & Design	C303	
33	PCC- CS504	Computer Algorithms	C304	3rd Year
34	OEC-CS506	Internet of Things	C305	
35	PCC- CS507	Java Programming	C306	
36	HM- CS508	Business English	C307	
37	PCC-CS601	Compiler Construction	C308	
38	PCC- CS602	Operating System-II	C309	
39	PCC- CS603	Database Engineering	C310	
40	PCC- CS604	Machine Learning	C311	3rd Year
41	OEC- CS605	E-Commerce & Digital Marketing	C312	
42	PCC- CS607	C# Programming	C313	
43	PW- CS608	Domain Specific Mini Project	C314	
44	PCC-CS701	Advanced Computer Architecture	C401	
45	PCC- CS702	Cloud Computing	C402	4th Year
46	PCC- CS703	Advanced Database Systems	C403	
47	PCE- CS704	Elective-I Artificial Intelligence	C404	

48	PCC- CS705	Web Technologies	C405	
49	PW- CS706	Project – I	C406	
50	SI-CS707	Internship	C407	
51	PCC- CS801	Big Data Analytics	C408	
52	PCC- CS802	Deep Learning	C409	
53	PCE- CS803	Elective-II Natural Language Processing	C410	
54	PCE- CS804	Elective-III Block chain Technologies	C411	
55	PCC- CS805	Mobile Application Development	C412	
56	PW- CS806	Project – II	C413	
57	HM-CS807	Professional Skills	C414	

Table 2.1.2: Courses codes

B. The curriculum gaps are identified based on the mapping levels as mentioned in Table 2.1.3

Sr. No.	Course	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
1	C201	√	√	√											
2	C202	√	√	√	√									√	√
3	C203	√	√	√	√							√		√	√
4	C204	√	√	√	√	√	√	√				√			√
5	C205	√	√	√	√	√	√								
6	C206	√	√	√	√					√		√		√	√
7	C207								√	√	√		√		
8	C208	√	√	√	√	√								√	√
9	C209	√	√	√	√	√	√					√			√
10	C210	√	√	√	√									√	√
11	C211	√	√	√	√									√	
12	C212	√	√	√	√	√									
13	C213	√	√	√	√						√		√	√	√
14	C214	√	√	√	√	√			1	1		√	√	√	√
15	C215	√	√	√	√	√	√	√	√	√	√	√	√	√	√
16	C301	√	√	√			√							√	
17	C302	√	√	√	√	√								√	√
18	C303	√	√	√	√	√								√	√
19	C304	√	√	√	√	√	√							√	√
20	C305	√	√	√	√	√	√	√		√		√	√		√

No	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
21	C306	√	√	√	√	√			√						
22	C307								√	√	√		√		
23	C308	√	√	√	√	√								√	√
24	C309	√	√											√	√
25	C310	√	√	√	√	√	√							√	√
26	C311	√	√	√	√									√	√
27	C312	√	√	√	√	√	√							√	
28	C313	√	√	√	√	√									
29	C314	√	√	√	√	√	√	√	√	√	√	√	√	√	√
30	C401	√	√	√	√									√	√
31	C402	√	√	√	√	√	√							√	√
32	C403	√	√	√	√	√	√					√		√	√
33	C404	√	√	√	√	√	√							√	
34	C405	√	√	√	√	√								√	√
35	C406	√	√	√	√	√	√	√	√	√	√	√	√	√	√
36	C407	√	√	√	√	√	√		√	√	√	√	√	√	√
37	C408	√	√	√	√	√								√	√
38	C409	√	√	√	√	√	√					√		√	√
39	C410	√	√	√	√	√	√					√		√	√
40	C411	√	√	√	√	√								√	√
41	C412	√	√	√	√	√	√							√	
42	C413	√	√	√	√	√	√	√	√	√	√	√	√	√	√
43	C414	√	√	√	√	√	√	√	√	√	√	√	√	√	√
		95.34	95.34	93.02	98.37	69.76	53.58	16.27	23.25	23.25	23.25	18.60	58.13	76.74	69.76

Table 2.1.3: Mapping of POs and PSOs with courses

C. Curriculum gaps for attainment of defined POs and PSOs: -

The POs and PSOs of the program having less than 60% mapping are considered as a 'Curriculum Gap'. Also feedback from industry and training and placement section is considered.

Curriculum Gap identified are:

1. Technical skills in-line with the requirements
2. Environment friendly engineering solutions for sustainable development.
3. Awareness about professional ethics and norms of engineering practices.
4. Group dynamics – teamwork & leadership traits.
5. Industry readiness.

2.1.2 State the delivery details of the content beyond the syllabus (10)

A. Steps taken to get identified gaps included in the curriculum

- After finding the gap for each course, the gap recovery strategy is decided by the course teacher.

- To bridge the gap, different activities are carried out by course teacher like workshops, Classroom instructions, NPTEL videos, industrial visits and providing course materials.
- A request letter is sent to the BOS chairman for modifications with the syllabus as per identified gaps.

B. Delivery details of the content beyond syllabus:

The content beyond syllabus is delivered to the students mainly in the form of

- Expert lectures
- Workshops
- Technical events
- Industrial visits

Curriculum Gap identified are:

- Technical skills in line with the requirements of industry

- Environment friendly engineering solutions for sustainable development

- Awareness about professional ethics and norms of the engineering Practice

- Group Dynamics – Teamwork & Leadership Traits

- Industry readiness

Sr. No.	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Technical Skills in line with the requirements	Expert Lecture on Project Life Cycle and Project Management"	16/09/2023	Mr. Satish Sitaram Bharadwaj	80	POs: 1, 5, 6, 11, 12 PSOs: 1, 2
2		Expert lecture on Implementation of pointers and structures in C language	27/10/2023	Ms. S. S. Satpute Assistant Professor SCES Smt Kashibai Navale College Of Engg. Vadgaon, Pune	68	POs: 1,2,3,PSO2
3		Real Time Application of NLP	14/02/2024	Dr.P.J.Kulkarni	100	POs: 6,9,10, PSO1, 2
4	Environment friendly engineering solutions for sustainable development	Expert lecture on Cyber Security	14/02/2024	Ms Vanshree Akkalkot Domain Computer Sangli.	90	POs: 5,7, 9,10, PSO:2

5	Technical Skills in line with the requirements	Real time use of Git Hub(In collaboration with Google Developers group)	14/03/2024	Prof. P. S. Ambupe, Dr. J. J. M. C. O. E.	40	POs: 1-5, 6, 6, 12 PSOs 1,2
6		Innovation to Computer Vision	07/02/2024	Mr. Abhay Chougule, CEO, RacksonIT Developers Pvt. Ltd., Pune.	74	POs: 1-5, 6, 6, 12 PSOs 1,2
7	Industry readiness	Current Trends in Artificial Intelligence and & Machine Learning	26/07/2023	Mr. Aditya N. Magdum, Data Scientist, Myclean Services Pvt. Ltd.., Pune	92	POs: 1-5, 6, 6, 12 PSOs 1,2
8		Working of Chat GPT and Applications	04/08/2023	Mr. Abhay Chougule, CEO, RacksonIT Developers Pvt. Ltd., Pune.	90	POs: 1-5, 6, 6, 12 PSOs 1, 2
9	Technical Skills in line with the requirements	AI in Digital Marketing	26/09/2023	Mr. Akshay A. Pujari, Founde, Shivam Creation, Miraj.	70	POs: 1-5, 6, 6, 12 PSOs 1,2
10		Guest Lecture: Research Attachment Program at Malaysia	04/10/2023	Dr. U. B. Deshannvar, Advisor, Dr. JJMCOE.	67	POs: 1-5, 6, 6, 12 PSOs 1,2
11	Group Dynamics – Teamwork & Leadership Traits	Celebration of World Environment Day	05/06/2023	NSS Coordinator, JJMCOE	100	POs: 6-12
12		Celebration of International Yoga Day	21/06/2023	NSS Coordinator, JJMCOE	100	POs: 6-12
13	Environment friendly engineering solutions for sustainable development	NSS Special Camp at Jambhali, Tal-Shirol.	8 to 14/01/ 2024	NSS Coordinator, JJMCOE	100	POs: 6-12
14	Technical Skills in line with the requirements	**Expert Talk with Alumni**	03/02/2024	**Mr. Pradip Kamble** Project Manager, Hexaware Technology Pune	80	POs: 1-5, 6, 6, 12 PSOs 1,2
15	Industry readiness	**An Overview of Tools and Technologies from an Industrial Approach.**	27/03/2024	**Mr. Akshay Runwal** Bank of Melon, New-York.	100	POs: 1-5, 6, 6, 12
16	Group Dynamics – Teamwork & Leadership Traits	**Expert Talk at** National Level Event "Ashwamedh" for Project Competition & UG Conference.	06/04/2024	**Mr. Amol Miraje** Happy Visitors Dot com, Jaysingpur	100	POs: 6-12

Table 2.1.4: Action taken for identified curriculum gap AY 2023-24

Sr. No.	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Technical Skills in line	Expert Lecture on Deadlock	24/05/2023	Prof. P. R. Desai, Assistant professor, IT dept, JJMCOE.	91	POs: 1, 8, 10, 11

2	with the requirements	Expert lecture on Automata Theory	19/05/2023	Prof. P. S. Khot, Assistant professor, DKTE, Ichalkaranji	96	POs: 1,2,3,PSO2
3	Environment friendly engineering solutions for sustainable development	Guest Lecture on Data Analytics & Text Analytics in Data Science	25/04/2023	Mr. Y. L. Hakim, A Corporate Trainer : Python , Data Science , ML & AI	100	POs: 6,9,10, PSO12
4		Guest lecture on Recent trends in IT	21/04/2023	Mr. Sourabh Deotale, CEO Acuratech Pvt. Ltd, Pune.	90	POs: 5,7, 9,10, PSO:2
5	Industry readiness	Industry Visit	21/04/2023	tCognition, IT park, Kolhapur.	100	POs: 1-4, 6, 12 PSOs 1,2
6	Environment friendly engineering solutions for sustainable development	Expert lecture on Full stack Development & AWS Cloud	18/04/2023	Mr. Nilesh Takale, Director, ITnium, College of International Certification, Sangli.	90	POs: 6,8, PSO2
7		Guest Lecture on Introduction to Python	27/03/2023	Mr.Vaibhav Sutar, Director, Vishwa Technologies, Kolhapur.	93	POs: 6,9,10
8	Industry readiness	One Day Workshop on Amazon Web Services (AWS)	21/03/2023	Mr. Shailesh H. Dinde, Senior QA Engineer, Windmill smart solutions Pvt. Ltd.	90	POs: 7,9,11
9	Group Dynamics – Teamwork & Leadership Traits	NSS activities-CAMP at Nandani	30/01/2023	NSS Coordinator, JJMCOE	100	POs: 6-12
10	Industry readiness	One Day Workshop on Recent Trends in Cloud Computing	20/12/2022	Mr. Amar Kalvikatte, Tech Lead AVIATRIX Netharlands	95	POs: 7,9,11
11	Technical Skills in line with the requirements	Expert lecture on Java	03/12/2022	Mr. Mahesh Bhatkande, Java expert, UST Global Pvt.Ltd	95	POs 6,7,9, PSO 2
12		Expert lecture on Relations & Functions	02/12/2022	Prof. A.B. Shikalgar, Assistant professor, CSE Dept, ADCET Ashta	93	POs 6,7,PSO 2
13	Awareness about professional ethics and norms of the engineering Practice	Expert lecture on Cyber Crime	25/11/2022	Mr. Vishwajit Patil, Cyber Expert at Maharashtra Cyber Mumbai	90	POs 7, 8, 10, 12,PSOs 1,2
14	Industry readiness	Industry Visit	19/11/2022	Domain Computers, Sangli	90	POs 1-4, 6, 12 PSOs 1,2
15		Expert lecture on AWS Cloud	16/11/2022	Ms. Vanashri Akkalkot, Domain Computers, Sangli	92	POs 5,9, PSO 2
16	Technical Skills in line with the requirements	Demo session on Computer Hardware and Networking	07/11/2022	Mr. Akshay Mane, AM Computers, Shirol	97	POs 1-4,7,9
17		Expert Lecture on Microprocessor	11/10/2022	Dr. S. B. Patil. I/C Principal. JJMCOE	98	POs 6, 7, 9, PSO 2
18	Environment friendly engineering solutions for sustainable development	Guest Lecture on Trends of latest Technologies in IT	03/10/2022	Mr. Nilesh Takale,Director, ITnium, Sangli	94	POs 5,7,9,10, PSO 2

Table 2.1.5: Action taken for identified curriculum gap AY 2022-23

| Sr. No.	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Technical Skills in line with the requirements	Session on Study of basic services and multimedia protocols in Internet	30/06/2022	Prof. Nandinee Mudegol, Assistant professor, Walchand College of Engineering.	93	POs 6-11,PSO 2
2	Technical Skills in line with the requirements	Expert Lecture on Practical approach to Computer Networks	28/06/2022	Prof. Sharwari Satish Solapure, Assistant professor, JJMCOE	90	POs 7-11,PSO 2
3	Industry readiness	Industrial visit -BSNL office Goa	23/05/2022	BSNL office, Goa.	90	POs 6-12, PSO 2
4	Environment friendly engineering solutions for sustainable development	Guest Lecture on Artificial Intelligence & Applications	12/05/2022	Mr. A. B. Chougule, CEO and Data Scientist / AI Engineer, RacksonsIT Developers Pvt Ltd	98	POs 6-10, PSO 2
5	Technical Skills in line with the requirements	Expert lecture on Regular Language & Finite Automata Theory	07/05/2022	Prof. Miss. A. B. Shikalgar, Assistant professor, ADCET, Ashta	92	POs 6, 7, PSO 2
6	Industry readiness	Industrial Visit-All India Radio Station Kolhapur and Panhalat	15/02/2022	All India Radio Station Kolhapur and Panhala	90	POs 6-12, PSO 2
7	Technical Skills in line with the requirements	Expert lecture on Concept introduction and Problems	14/02/2022	Prof. P. S. Khot, Assistant professor, DKTE, Ichalkaranji	93	POs 6, 7, PSO 2
8		Growing need for specialization: Technical and Techno management options in India and abroad	15/01/2022	Mrs. Pallavi Desai, Achiever's Academy, Kolhapur.	100	POs 6-11, PSO 2
9	Group Dynamics – Teamwork & Leadership Traits	NSS Camp	07/03/2022	NSS Coordinator, JJMCOE	100	POs 6-12
10	Technical Skills in line with the requirements	Expert lecture on Concepts, Introduction to DMS, Problems	01/01/2022	Prof. P. S. Khot, Assistant professor, DKTE, Ichalkaranji	96	POs 6, 7, PSO 2
11	Industry readiness	Opportunities After BE	23/12/2021	Mr. Rahul Gujar, senior system administrator, Continental Automative Inc.	90	POs 6-12,
12	Environment friendly engineering solutions for sustainable development	Awareness of NPTEL courses and registration process	20/12/2021	Mr. Surendra Ravindra Patil, Student B.Tech mech	92	POs 7-10, PSO 2
13	Industry readiness	Guest Lecture on Corporate View after B. Tech.	17/12/2021	Mr. Samkit Khot(Alumni), Senior software Engg., LTIMINDTREE,Pune	97	POs 6-12, PSO 2
14	Environment friendly engineering solutions for sustainable development	Workshop on App Inventor	03/12/2021	Prof. Rohit S Barwade, Assistant professor, JJMCOE	94	PO5,6,8,10,PSO2

15	Technical Skills in line with the requirements	Session on Opportunities in Abroad after Engineering	26/11/2021	Mr. Rahul Gujar(Alumni), senior system administrator, Continental Automative Inc.,	95	POs 6-12, PSO 2
16	Environment friendly engineering solutions for sustainable development	Workshop on Python & its Libraries	26/11/2021	Mr. Hrishekesh Gharge, Student B,Tech CSE	93	POs 6-12
17	Technical Skills in line with the requirements	Expert Lecture on Introduction to the Architectures of Microprocessor and some basic instructions	26/11/2021	Prof. M. U. Phutane Assistant professor, JJMCOE	92	POs 6, 7, 9, PSO 2
18	Industry readiness	Session on Ways to work or prepare for Campus Drive	25/11/2021	Mr. Akshay Runwal (Alumni), Lead Business analyst, Thebank of new York.	97	POs 6-12,PSO 2
19	Technical Skills in line with the requirements	Expert lecture on "8085: Architecture and Programming"	23/11/2021	Dr. S. B. Patil. I/C Principal, JMCOE	92	POs 6, 7, 9, PSO 2
20	Environment friendly engineering solutions for sustainable development	Demo Session on Computer Hardware and Networking	29/10/2021	Mr. Akshay Mane, Owner, AM Computers, Shirol	95	POs 1-4,7,9
21	Technical Skills in line with the requirements	Expert lecture on AWS Cloud	21/10/2021	Mr. Nilesh Takale, Director, ITnium, College of International Certification, Sangli.	93	POs 5, 9, PSO2

Table 2.1.6: Action taken for identified curriculum gap AY 2021-22

2.2 Teaching - Learning Processes (100)

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

The processes followed by the institute to improve quality of Teaching & Learning are as follows:
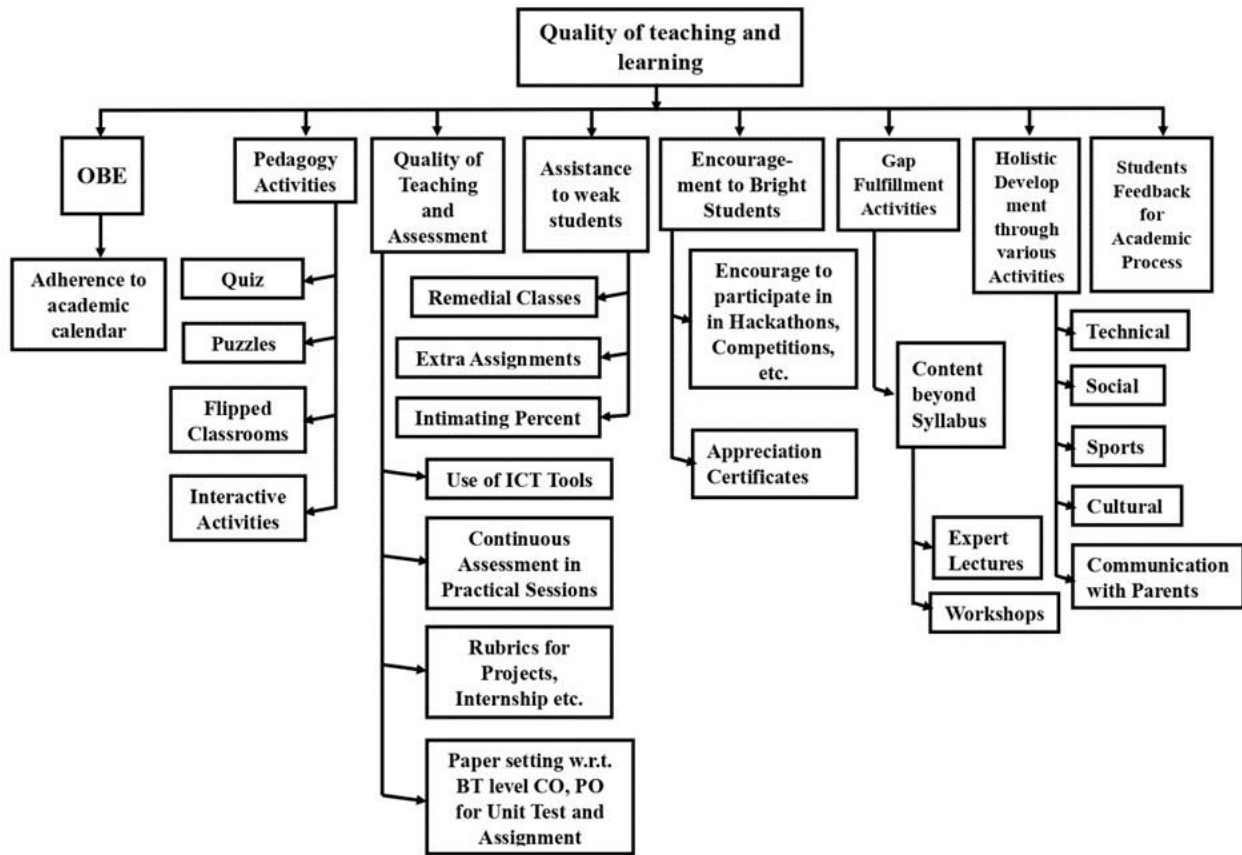
Fig. 2.2.1 Processes followed to improve quality of Teaching & Learning

An effective connected model to improve the quality of teaching and learning is being adopted which includes the following process:

A.   Adherence to academic calendar

- The execution process for teaching learning for the program is scheduled in accordance with the institute academic calendar.

- The university prepares and shares its academic calendar well in advance of the academic session's commencement.

- The institute, in turn, formulates its own academic calendar in accordance with the university's schedule to ensure the completion of academic tasks.

- The departmental academic calendar is prepared to synchronize with the institutes academic timeline, providing detailed information regarding the timing of various co-curricular and extra-curricular activities, including faculty development programs, seminars, workshops, expert lectures, and more.

- It is mandatory for both students and faculty members to strictly adhere to the academic calendar to the successful fulfillment of academic activities.

Following major activities are included in Department Academic Calendar:

- Commencement and conclusion of UG terms as per the Institute Calendar and university calendar
- In-SEM examination as per Institute calendar
- Mentor Meeting Schedule
- Student's chapter Activities
- Expert talks
- Industrial Visits Schedule
- Technical Activities like Webinar, Workshop, and FDP etc.

B. Instruction methods and pedagogical initiatives: -

Instructional methods have evolved significantly over time, shifting from traditional, teacher-centered approaches to more dynamic, student-centered pedagogical initiatives. Earlier focus was on Teacher-Centered Learning, Standardization, and Limited Use of Technology. But modern educational approaches emphasize more student engagement, critical thinking, collaboration, and the integration of technology. Some of the key features include Student-Centered Learning, Constructivism, Differentiated Instruction, Blended and Flipped Learning, Technology Integration, Formative Assessment and Feedback, Collaborative Learning, Competency-Based Education (CBE).

The COVID-19 pandemic lockdowns did not impede the teaching and learning process. Faculty members made systematic efforts to initiate and implement online teaching methods. Initially, platforms like Google Meet and Zoom were utilized to conduct webinars and various teaching-learning activities. With Google Meet and Zoom additional tools such as Google Classroom and WhatsApp were also incorporated.

Active learning	• CIE • Quiz • Experiments • Project • Mini Project Presentation
Experiential Learning	• Field based experiential learning Internship, Industrial Visit
Project based learning	• A team of 4 to 5 students per group
Collaborative Learning	• Projects • Group discussion

Table 2.2.1: Instruction methods

The instructional methods and pedagogical initiatives include:

Course Components	Pedagogical Initiatives
Basic Science & Humanities	Chalk & Talk
Professional Core Courses (PCC)	Use of Projector, Industrial Visits, Videos (NPTEL)
Engineering Science Courses (ESC)	Chalk and Talk, Use of Projector
Humanities and Management (HM)	Chalk and Talk, Activity Based Learning
Project, Mini Project & Internship (PW)	Demo Videos, Charts
Professional Core Electives (PCE)	Use of Projector, Handouts
Open Elective Courses (OEC)	Use of Projector, Handouts

Table 2.2.2: Pedagogical initiatives

C. Methodologies to support weak students and encourage bright students

Assessment and methodology to support weak students:

Students' performance is evaluated through Continuous Internal Evaluations (CIEs) and active participation in class discussions. Students who achieve marks below or equal to 40% are identified as weak students and are provided with makeup classes. Additionally, assignments are given and evaluated to track their progress. Counseling by respective faculty and proctor is also done as needed.

The following practices are implemented by faculty for the improvement of weak students:

- Conduct remedial classes

- Open book test

- Question paper solving of the previous years

- Home assignments

- Motivation through mentoring scheme

- Question bank

- Departmental library facility

- Book bank facility

Encouraging bright students

Students' performance is evaluated through Continuous Internal Evaluations (CIEs) and active participation in class discussions. Students having marks greater than 80% are considered as bright students. These students are motivated to secure university ranks and are encouraged to participate in national and international competitions. Such students are awarded/felicitated during departmental/institutional functions. Research motivation is provided to improve student performance in paper publication, to get patents and to improve placements.

The following practices are implemented by faculty to encourage bright students:

- Conduct expert lectures on advanced topics

- Providing journals & magazines

- Motivating students through mentoring scheme

- Competitive exam guidance

- Encourage to write technical papers in International / National Journals / Conferences

- University rankers & class rankers are felicitated on annual day

- Encourage to participate in workshops, seminars and technical events and exhibitions

D.   Quality of Classroom Teaching

Classroom teaching: The lecture delivery by the faculty is through a set of educational technology/tools such as

- Chalk and talk - Lecturing is done using green/blackboard

- Power point presentation (PPT)

- Lecturing using LCD Projectors

- Citing real world examples for application based courses

- Case studies

- Access to study material in e-resources

- Use of Open-Source Software

- Demonstration in Lab

- Usage of videos

- Assignments/tutorial

- Question bank

- Quiz

E. Conduction of Experiments

- Every semester, laboratories are prepared in advance with all technical requirements.

- Faculty members instruct the students about the Structure, Syllabus, Course objectives, Course outcomes, and grading methods and how to perform practical's before doing the regular laboratory experiments

- For each semester at least 3 courses have practical sessions. The sessions are conducted in batches of students.

- Faculty explains theoretical background of experiments in class and clarifies doubts if any.

- Faculty executes all the experiments with respect to University Curriculum.

- Students prepare for the experiment and prepares the write up accordingly which is checked after the conduction of experiment by the faculty

- Continuous evaluation of student performance is done for every experiment in the laboratory

- Internal Practical Examination is conducted at the end of the semester before the commencement of University Examination

F. Continuous Assessment in the laboratory

- To improve the quality of laboratory work, laboratory plan includes introduction, review of laboratory work

- Continuous assessment is carried out during laboratory work itself

- Each experiment is evaluated during respective practical session based on participation and understanding, submission punctuality and oral

- Assessment of Laboratory practical is based the Continuous Assessment Sheets (CAS) which has rubrics mentioned in table 2.2.3.

Sr. No.	Evaluation Type	Marks

01	Quality & Completion of journal	05
02	Understanding of experiment	03
03	Academic performance	05
04	Attendance	05
05	VAP marks	03
06	Quiz marks	04
	Total	25

Table 2.2.3: Continuous Assessment Sheets

G. Student feedback of teaching learning process and actions taken

- Feedback collected for all courses: YES
- Average percentage of student's participation in the feedback process: 60-70%

Feedback Collection Process:

The institute has a well-defined process for feedback collection with respect to all the courses, which is required to ensure continuous improvement and refinement of teaching learning process and curriculum. The detail of feedbacks collected from the students and the process of collection is given in table 2.2.4.

Type of feedback collected	Feedback on Curriculum, teaching & learning
Process of collection	Online / Offline / Oral submission
Frequency of collection	Once after end of each semester
Department responsible for collection, analysis and action taken	Respective department/ IQAC

Table 2.2.4: Feedback Collection Process

The feedback form is designed to collect information on the curriculum, attributes of teachers and their teaching learning methodologies and effectiveness of the methodology. Feedback has the following processes:

- Feedback collection

- Feedback Analysis
- Corrective measures

Feedback is collected at various levels:

1. Online Students Feedback (Once per Semester)

2. Through Course Monitoring Committee (CMC) at department (Once per Month)

3. Principal (Twice per Semester)

4. Course End Survey (At the end of Course)

5. By IQAC in online mode (Once per Semester)

A. Feedback Collection Process

To enhance the teaching learning process and enrich the academic performance feedback is collected manually or online from all stakeholders of the institute at department level and centrally.

Feedback collected by the Department

1. Through Course Monitoring Committee:

- To improve the teaching-learning process every class has Course Monitoring Committee (CMC)
- It consist of HOD, Academic Coordinator, and the class coordinator of respective class, and student representatives
- Monthly CMC meetings are conducted to collect feedback from students
- Every teacher will be informed about the issues if any
- Dean Academics will collect the CMC reports of all departments

2. Through ERP system

- Student's feedback about teaching a course is taken in a semester through the ERP system
- Turn-1 feedback is taken after the first 30 to 40 days of teaching. Corrective actions are taken after this feedback
- Following questionnaire is set for feedback

Q.1	Has the teacher given you the lesson plan for the entire semester in the first week of teaching?	Yes/No/ Don't
Q.2	Has the teacher given you question bank for the forthcoming class-test, in advance?	Yes/No/Don't Know

Q.3	Does the teacher conduct the class exactly as per the time table?	Always/Many times/some times
Q.4	Does the teacher engage all classes regularly?	Always
Q.5	How is the handwriting / drawing of the teacher on the blackboard?	Good
Q.6	Does the teacher interact with you in the class?	Always
Q.7	Is the teacher audible in the class?	Very much/ok/ poor
Q.8	Does the teacher explain the concepts to you properly?	Always
Q.9	Has the teacher completed lessons as per the plan given to you?	Yes/No/Don't know
Q.10	How do you rate his / her teaching?	Good/ Average/Poor

Table 2.2.5: Feedback Collection Process

Calculation of Performance Index (PI)

- The first column of answers to each question has 5 marks, middle column 3 and last column 1.

- If a teacher gets 5 out of 5, then his/ her performance (the satisfaction of the student) is 100%, however if he/she gets 3 , it will be 60%

- Average of performance of a teacher for all 10 questions will be his/her overall Performance Index (PI) for a student.

3. Feedback collected at central level:

- The Committee consist Principal and Academic Dean collects feedback from students per semester for all courses. And they discuss the issues if any with respective HOD. Parameters considered for oral feedback are

    1. Planning & Organization
    2. Presentation/Communication
    3. Students Involvement
    4. Use of Media/Methods
    5. Class Management

4. Feedback for each course collected through online by Internet Quality Assurance Cell (IQAC) at the end of every semester on curriculum.

Sample form is shown below:

- *Name of the student:*

- *Department:*

- *Class:*

- *Academic Year:*

Kindly rate the metrics from 1 to 5.

1- Not Agreed, 2 - Partially Satisfied, 3 – Satisfied, 4 – Agree, 5 – Strongly Agreed)

Sr. No.	Particulars	Marks
1.	How will you rate the distribution of the contact hours (Lecture – Practical – Tutorial) among the course components	
2.	How do you rate the organization of the courses in the curriculum?	
3.	How will you rate the activities (Augmentation courses, VAC, Guest Lecture, and Industrial Visit) organized helped to bridge the gap between academic and industrial needs.	
4.	How will you rate the assessment pattern of the course (Examination- CIE-I,CIE- II, University exam)	
5.	Electives offered in the curriculum are in relation to the technological advancements	
6.	Experiments in the lab courses are related to the real life/time applications	
7.	How do you rate the books listed as reference materials are relevant, updated and appropriate?	
8.	Is the curriculum sufficient to make you analyze engineering problems and its suitable solution	

Table 2.2.6: Format of feedback for the course curriculum

Feedback Analysis Process

- All the parameters mentioned in the feedback form are analyzed by CMC, IQAC and academic Dean

- Course related feedback form analysis is done at department level and central level

- Difficulties in course understanding are solved by required actions like expert lectures, innovative concepts etc.

- Following is the sample report of analysis of curriculum feedback

Sr. No.	Particulars	1-Not agreed	2 - Partially Satisfied	3 – Satisfied	4 – Agree	5 – Strongly Agreed
1	How will you rate the distribution of the contact hours (Lecture – Practical – Tutorial) among the course components	0.00	2.04	34.69	38.78	24.49
2	How do you rate the organization of the courses in the curriculum?	0.00	6.12	28.57	38.78	26.53
3	How will you rate the activities (Augmentation courses, VAC, Guest Lecture, and Industrial Visit) organized helped to bridge the gap between academic and industrial needs.	0.00	4.08	34.69	36.73	24.49
4	How will you rate the assessment pattern of the course (Examination- CIE-I, CIE-II, University exam)	0.00	4.08	22.45	40.82	32.65
5	Electives offered in the curriculum are in relation to the technological advancements	0.00	0.00	22.45	55.10	22.45
6	Experiments in the lab courses are related to the real life/time applications	0.00	4.08	24.49	51.02	20.41
7	How do you rate the books listed as reference materials are relevant, updated and appropriate?	0.00	2.04	20.41	57.14	20.41
8	Is the curriculum sufficient to make you analyze engineering problems and its suitable Solution	0.00	0.00	30.61	46.94	22.45

Table 2.2.7: Report of analysis of curriculum feedback for AY 2023-24

Corrective Measures:

- Based on the consolidated feedback reports the faculty members are appraised about their performance
- The faculty members who follow good and innovative teaching pedagogies are appreciated
- Necessary corrective actions are taken for the faculty members who score less than the institution standard, are followed as given below
  1. Head of the department advise the faculty about handling and monitoring the class
  2. Encouraging faculty to attend more seminars, workshops and Faculty Development Programs (FDPs)
  3. Suggestions are given to enhance their academic skill set with the peer support within a stipulated time period. The performance is reviewed by the head of the department regularly.

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

As per academic calendar of the department, two Continuous Internal Assessment (CIE) tests for every semester are conducted. Department Examination in-charge schedules the test timetable, test supervision allotment, exam block allotment. Notice & timetable is displayed prior to the exam on the notice board for smooth conduction of the test according to the schedule. Exam questions for theory is aligned with bloom's taxonomy and the questions were decided as per the COs which are framed by the respective course.

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

- Our institute follows Shivaji University, Kolhapur examination guidelines with CBCS structure, in which 70 marks for (Theory) End semester examination and 30 marks for Continuous Internal Evaluation (CIE)
- In a semester, there are two CIEs for each course
- Individual faculty members set the question papers for their respective courses, based on the common guidelines given by the department
- The papers are submitted to the exam coordinator to assure the quality of the question paper
- Questions in the tests are mapped against CO of respective course
- Question papers for CIE exams are based on learning levels like remember, understand, analyze and create of Bloom's taxonomy with each COs
- In each course MCQ insertion is preferable followed by descriptive questions.
  The following materials are sent to question paper setters:

1. Copy of the guidelines for question paper setter's
2. Syllabus of the concerned course /courses
3. Bloom's Taxonomy
4. Question paper Format

- Question paper quality for the above-mentioned factors are checked by exam coordinator and HoD.

- The question papers that require modifications are returned to the respective course in-charge to make the necessary modifications and submit a modified copy of the question paper

Evaluation

- The faculty assesses the answer sheets and keeps the record of the marks scored by the students

- These marks are used in the CO attainment calculation of the course

- The answer sheets are shown to the respective students for query if any and correction in marks are done if the claim from students are justified

- Sample answer sheets are maintained by faculty members

- The process is shown in the flowchart in figure 2.2.3.
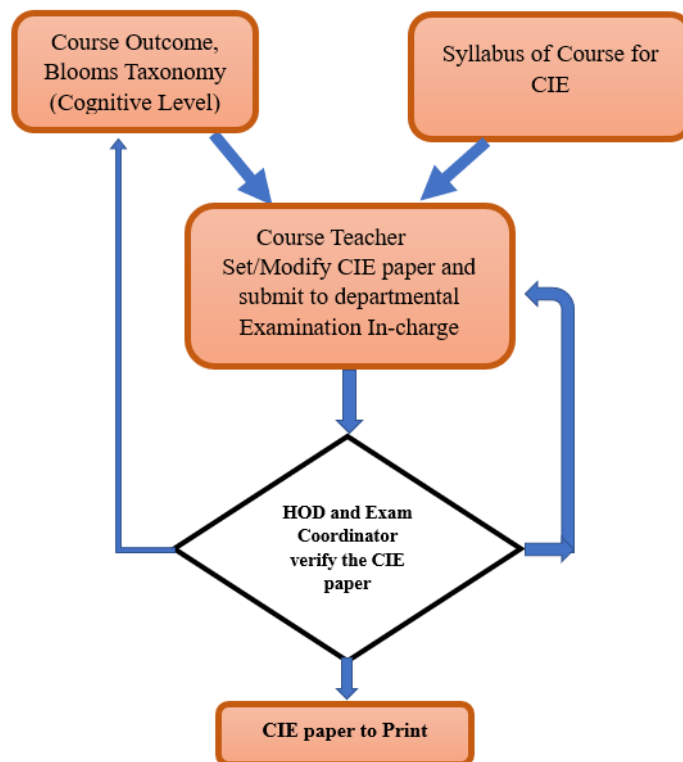
Fig.2.2.3 The process of question papers setting

B. Quality of Assignment and its relevance to Cos

- Assignments are the integral part of the continuous assessment process to ensure that students apply and analyses the knowledge to raise the level of learning and application.

- Similar to CIE and ESE, the assignments too are in line with CO and difficulty levels that have been predefined.

- Assignment issue and submission dates are announced by the respective faculty members

- Assignment scheme is prepared by the faculty for evaluation.

- Assignments are formulated in such a way that it motivates students for self-learning and carry out various home exercises based on the content taught in Classroom.

- Assignments are evaluated on basis of Submission, Participation and Understanding of the students on given topic.

Continuous Internal Evaluation (CIE) question papers are set as per the standard format with stipulated syllabus. Sample CIE Question Paper demonstrating COs is shown in Figure 2.2.4. Answer books are evaluated and major issues are identified. Which are then resolved through appropriate remedial measures. CIE marks are analyzed, displayed, and communicated.

Dr. J. J. Magdum College of Engineering
Computer Engineering [2023-24]
CIE-I
Subject : [CS605] E-Commerce & Digital Marketing - Theory Faculty : ROHIT MANE

Instructions:

1. *Figures to the right indicate full marks to the question.*

2. *All questions are Mandatory.*

Question	Marks	Course Outcome	Blooms Level
Attempt all MCQs.			
1. E-Commerce stands for _____.	1	CO1,CO2	Understand
1. Electrical Commerce			
2. Electronic Commerce			
3. Entertainment Commerce			
4. Electro Chemical Commerce			
2. _____ describes e-commerce.	1	CO1,CO2	Create,Understand
1. Doing business offline			
2. Doing business electronically			
3. Surfing online			
4. Both A & B			
3. _____ is NOT a function of E commerce.	1	CO1	Analyze
1. Warehouse			
2. Finance			
3. Marketing			
4. None of the above			
4. The concept of online marketing and selling of products and services through the internet is _____.	1	CO1,CO2	Analyze,Understand
1. B2G			
2. B2C			
3. B2G			
4. B2E			
5. The solution for all business needs is:	1	CO1,CO2	Create,Understand
1. EDI			
2. ERP			
3. SCM			
4. None of These			
6. Which type of E - Commerce is Amazon?	1	CO1	Analyze,Understand, Remember
1. b2b			
2. b2c			
3. g2b			
4. g2c			
Q. 2. Attempt the Questions bellow.			
1. What Is E-Commerce? Why Is Digital Marketing So Important for E-Commerce Businesses?	6	CO1	Evaluate,Remember
2. Short Note on:	6	CO1	Evaluate,Analyze
1. Technical Challenges			
2. Economic Challenges			
3. Differentiate B2C and B2B.	6	CO1	Analyze
4. Explain the process of buying goods via internet?	6	CO1	Evaluate,Understand

Fig. 2.2.4: Sample CIE question paper

2.2.3. Quality of Student Projects (25)

A. Identification of projects and allocation methodology to faculty members

- A batch of 4-5 students forms a project group in consent with faculty project coordinator as per University guidelines.

- By considering the expert areas of faculties, DRC allocates the faculties as project guide(s).

- Students can refer reputed peer reviewed journals for selecting project topics. Projects can also be extension of previous/on-going works also.

- Department encourages on undertaking relevant, achievable, time bound projects that attempt to solve recent technology in Engineering.

- Project coordinator lists the types of projects on the basis of Environment, Safety and category of project i.e. whether it is application based, product development based, research based or project on Society needs.

- The students and guide select the title of the project, frame objectives, prepare and submit synopsis to the project coordinator of the department.

- The Department Research committee (DRC) members assess the feasibility and approve the project. The DRC members also give suggestions for modifications in the proposal, if required.
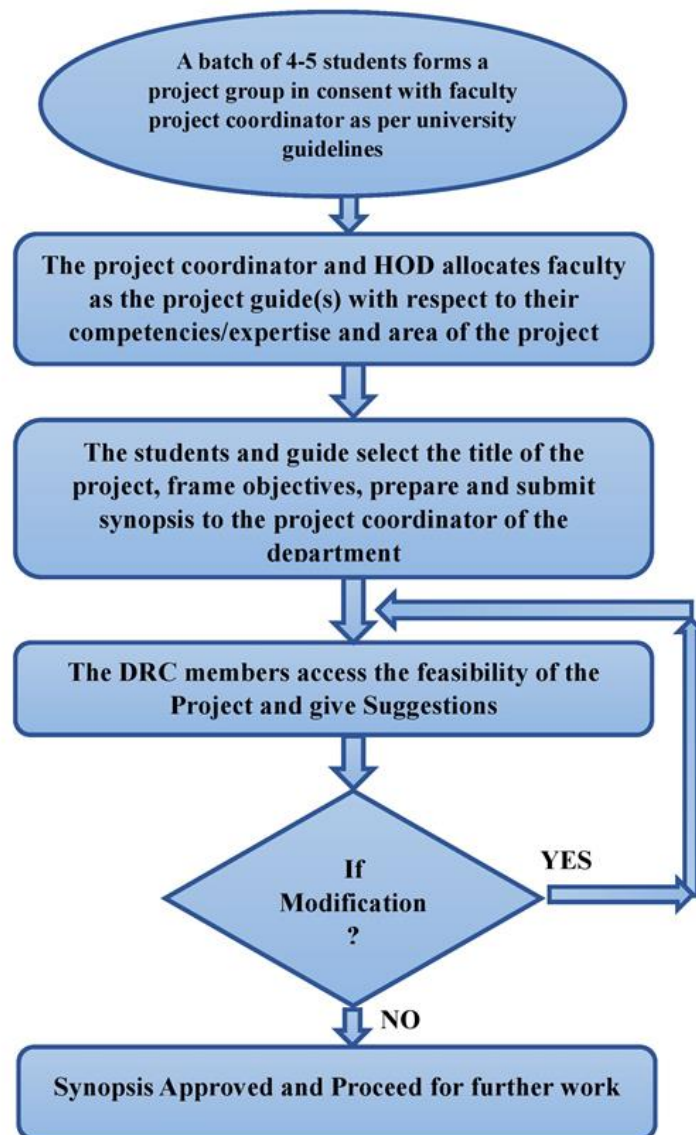
Fig.2.2.5: Process of identification of projects and allocation methodology to faculty members

B. Types and relevance of the project and their contribution towards attainment of POs and PSOs.

- Academic projects are mapped to POs and PSOs.

- Each project is evaluated with internal marks and is graded according to their project quality and with their contribution towards attainment of PO's.

- Projects are carried out during the final year of the academic program. **Tables 2.2.8, 2.2.9 and 2.2.10** gives the list of the projects carried out with relevance to the Techno Societal, Innovative, Institute Development, and Industrial Real time issues and mapping with POs and PSOs.

Sr. No	Title of the project	Type of the project	Mapping with POs& PSOs	Remark
1	Chatbot	College Development	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication
2	Geofencing Hospitality	Techno Societal	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication
3	Construction Site Inspection by using Drone/UAV	Interdisciplinaryx	PO 1-4, 6,7, 9,10 and 12 PSO:1-2	1. Winner at "Spectrum 2K23" Under Lead College SUK 2. Winner at "ASHWAMEDH 2K23" UG Conference with Civil Group, A National Level Event 3. 3rd Rank at "ASHWAMEDH 2K23", UG Conference with CSE Group, A National Level Event 4. Paper Publication: "Best Project at department"
4	Face Recognition attendance system	College Development	PO 1-4, 6,7,9,10 and 12 PSO:1-2	1. Paper Publication
5	Mall Customer Segmentation	Techno Societal	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication
6	Urban Emergency Event Detection Using Detection Using Social Media	Innovative	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication
7	E-Health Care Cloud Solution	Innovative	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication
8	Sponsored Website for Jewelry shop	Sponsored/Industry Real time problem	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication

Table 2.2.8. List of Projects (2023-24)

Sr. No	Title of the project	Type of the project	Mapping with POs& PSOs	Remark
9	Automatic Billing trolley	Techno Societal	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Winner at "ASHWAMEDH 2K23" UG Conference CSE 2. Paper Publication 3. Best Project at department
10	Weather Forecast	Techno Societal	PO 1-4, 6,7, 9,10 and 12 PSO:1-2	1. Paper Publication 2. Best Project at department
11	E-Prescription	Innovative	PO 1-4, 6,7, 9,10 and 12 PSO:1-2	1. Paper Publication
12	Activity Monitoring For Smart Campus	College Development/ Lab Development	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication
13	Sponsored website for Society	Sponsored/Techno Societal	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication
14	IOT Based Advertising Display	Techno Societal/	PO 1-4, 5,6, 9,10 and 12 PSO:1-2	1. Paper Publication
15	Video Summarization For Surveillance	Lab Development	PO 1-4, 5,6, 9,10 and 12 PSO:1-2	1. Paper Publication
16	Smart EV Charging Station	Techno Societal	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication 2. Best Project at department
17	Woman Safety App	Techno Societal	PO 1-4, 6,9,10 and 12 PSO:1-2	1. Paper Publication
18	Task Management application	Industrial Real time problem	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication
19	Diabetes Prediction Using ML	innovative	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication
20	Thyroid Detection Using ML	innovative	PO 1-4, 6,9,10 and 12 PSO:1-2	1. Paper Publication

Table 2.2.9.: List of Projects (2022-23)

Sr. No.	Title of the project	Type of the project	Mapping with POs & PSOs	Remark
1	Intelligent Crop Recommendation portal Using ML	Innovative Project	PO 1-4, 6,7, 9,10 and 12 PSO:1-2	1. Paper Publication
2	Music Recommendation system using facial emotion	Socially use	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication
3	Automatic License number plate recognition system	Socially use	PO 1-4, 6, 9,10 and 12 P:1-2	1. Paper Publication
4	Room light controller Using IOT	College development project	PO 1-4, 6,9,10 and 12 PSO:1-2	1. Paper Publication
5	Website Development for Laptop Shop	Socially use	PO 1-4, 6, 9,10 and 12 PSO:1-2	---
6	smart traffic controller	Socially use	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication 2. Best Project at department
7	COVID-19 Protection Automatic door	need based	PO 1-4, 5,6, 9,10 and 12 PSO:1-2	---
8	Cotton leaf disease detection using deep learning	Socially use	PO 1-4, 6,9,10 and 12 PSO:1-2	1. Paper Publication 2. Best Project at department
9	Voice assistant using python	Innovative Project	PO 1-4, 6,9,10 and 12 PSO:1-2	1. Paper Publication
10	Stock Market Prediction using ML Algorithms	Innovative Project	PO 1-4, 6,9,10 and 12 PSO:1-2	1. Paper Publication
11	IOT based Burglar notification system using image processing	Innovative Project	PO 1-4, 6,9,10 and 12 PSO:1-2	1. Paper Publication
12	yoga trainer using Media pipe	Innovative Project	PO 1-4, 6, 9,10 an\d 12 PSO:1-2	1. Paper Publication 2. Best Project at department
13	Real time sign language interpreter	Innovative Project	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication 2. Best Project at department
14	Object detection for visually impaired people	Innovative Project	PO 1-4, 6,9,10 and 12 PSO:1-2	--
14	Object detection for visually impaired people	Innovative Project	PO 1-4, 6,9,10 and 12 PSO:1-2	--

Sr. No	Title of the project	Type of the project	Mapping with POs & PSOs	Remark
15	Smart video summarization	Socially use	PO 1-4, 6,9,10 and 12 PSO:1-2	1. Paper Publication 2. Best Project at department
16	Data storage and billing system	Sponsored	PO 1-4, 6, 9,10 and 12 PSO:1-2	1. Paper Publication
17	Storysign app for children	Socially use	PO 1-4, 6,9,10 and 12 PSO:1-2	--

Table 2.2.10: List of Projects (2021-22)

C. Process for monitoring and evaluation individual and team performance Process of Monitoring

- All project team should submit the final synopsis to the guide, the project guide gives suggestions towards the improvement of project.

- The progress of a project is monitored by the guide on weekly basis and students have to report the updates to the respective guide every weekend.

- The project guide and coordinator gives suggestions to students from time to time that they need to incorporate before the submission of final report.

- The project guide, coordinator along with head of the department will evaluate the project work.

- Monitoring of project work will be done for both ODD and Even semesters of the final year.

- Students regularly meet the guide and discuss the progress of the work.

- The guide continuously monitors progress of the project.

Evaluation

Internal Evaluation:

- Project evaluation is carried out in two phases. During each phase, marks are awarded. Evaluation is performed as per Rubrics.

- Internal and external examiners from industries evaluate the project work as per their schedule.

External Evaluation:

- The final projects are evaluated by Internal and External examiners as appointed by the university.

- The external examiner is from other college/industry.

- The examiners conduct viva voce examination for the students. The project teams will come forward and defend the carried-out project work.
- Based on the performance in viva voce examination, final marks are awarded to the students that are sent to university.

Activity No.	Details of Activity		Marks for Activity	Rubrics for Activity			
				Unsatisfactory	Developing	Satisfactory	Excellent
	Project Marking Scheme – Phase –I (Semester – I)						
A1	Submission of project topic with names of group member		$A1 = 0.08 \times TM1$	0.00 X A1	0.40 X A1	0.80 X A1	1.00 X A1
A2	Presentation of synopsis in front of DRC.		$A2 = 0.08 \times TM1$	0.00 X A2	0.40 X A2	0.80 X A2	1.00 X A2
A3	Introduction and literature review presentation		$A3 = 0.24 \times TM1$	0.25 X A3	0.60 X A3	0.85 X A3	1.00 X A3
A4	Methodology and future work presentation		$A4 = 0.30 \times TM1$	0.25 X A4	0.60 X A4	0.90 X A4	1.00 X A4
A5	Guides mark		$A5 = 0.30 \times TM1$	0.25 X A5	0.60 X A5	0.90 X A5	1.00 X A5
	Project Marking Scheme – Phase –II (Semester – II)						
A6	Progress presentation 1		$A6 = 0.20 \times TM2$	0.20 X A6	0.65 X A6	0.90 X A6	1.00 X A6
A7	Progress presentation 2		$A7 = 0.20 \times TM2$	0.20 X A7	0.65 X A7	0.90 X A7	1.00 X A7
A8	Final presentation in front of DRC along with submission of spiral bound copy		$A8 = 0.30 \times TM2$	0.25 X A8	0.70 X A8	0.95 X A8	1.00 X A8
A9	Guides mark		$A9 = 0.30 \times TM2$	0.25 X A9	0.70 X A9	0.95 X A9	1.00 X A9

Table 2.2.11: Rubrics for project evaluation

1. TM1=Total term work marks allotted by SUK for project work in semester I
2. TM2=Total term work marks allotted by SUK for project work in semester II

3. Distribution of marks is given in the form of multiplying factor.

4. Round up or down the marks to get the whole number as per requirement.

5. Distribution of marks is given in form of multiplying factor in rubrics format also.

Role of Department Research Committee

1. Department Research Committee (DRC) has to approve the synopsis during activity A2 with modifications and suggestions if any.

2. DRC has to approve the report during activity A8 with modifications and suggestions if any.

Role of Guide:

1. Finalize the topic.

2. Synopsis write-up from student.

3. Decide out line of project.

4. Check the final write up of project.

D. Process to assess individual and team performance

The performance of the individual team member of the project is assessed at the time of meetings with guide and presentation in reviews by the following parameters:

*   Communication

*   Confidence

*   Attainment of individual scope of work

*   Knowledge of the other team members

*   Contribution towards the project

*   Coordination in consolidating work

*   Time management Internal and external examiners from industries evaluate the project work as per their schedule.

E. Quality of completed projects/working prototypes

The details are shown in **Tables 2.2.8, 2.2.9 and 2.2.10 for the academic years 2023-24, 2022-23, and 2021-22**, respectively.

F. Evidences of paper published/Awards received by project

The details are shown in **Tables 2.2.12, 2.2.13 and 2.2.14 for the academic years 2023-24, 2022-23, and 2021-22**, respectively.

Group No.	Student Name	Paper Topic	Publication Details
1	Birajdar Mallikarjun Mahadev Nandgaonkar Abhishek Sanjay Patil Rupesh Mahaveer Mutalik Anushree Deepak	Brain Tumour Detection Using Machine Learning With CNN Algo	International Journal For Research In Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue XII Dec 2023-
1	Birajdar Mallikarjun Mahadev Nandgaonkar Abhishek Sanjay Patil Rupesh Mahaveer Mutalik Anushree Deepak	Brain Tumour Detection Using Machine Learning With CNN Algo	International Journal Of Computer Science And Information Technology ISSN 0975-9646 Vol 15(2) 2024
2	Thombare Shreya Jaywant Chavan Pranjal Sanjay Patil Amruta Vijaykumar Edake Pratiksha Sambhaji	Leaf Disease Detection System Using Deep Learning	International Journal Of Innovative Research And Technology (IJIRT) ISSN 2349 6002
3	Bhagat Kundan Sudarshan Kale Akash Vijay Patil Tushar Shivaji Garud Pranav Jaywant Jadhav Dhiraj Suryakant	Image Separation And Sharing Application	International Journal Of Scientific Research In Engg And Management(IJSREM) ISSN 2582 3930 Vol 08 Issue 04
4	Khade Arati Gajanan Makote Pranali Pramod Bhosale Vaishnavidevi Arvind Patil Harshada Hanmant	Load Distribution And Time Table Generation Software	International Journal For Research In Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 12 Issue IV APR 2024
5	Bujare Harshad Madhukar Gavali Sujay Prabhakar Patil Akash Maruti Konuri Prajwal Tatyasaheb	Smart Agriculture Automation	International Journal For Research In Applied Science & Engineering

		System Using ML	Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 12 Issue IV APR 2024
	Desai Shravani Baburao		
6	Bhosale Omkar Suresh	Poultry Farm Management & Assessment Project	International Journal Of Research Publication And Reviews ISSN 2582 7421
	Patil Aditi Ashok		
	Bawadekar Suyog Sunil		
7	Gaikwad Rutuja Dinanath	Waste Food Management System Using Flutter	International Journal Of Scientific Development And Research ISSN 2455 2631 Vol 9 Issue 4
	Jare Balaji Maruti		
	Kamat Amey Sachin		
	Pawar Avantika Dadasaheb		
8	Patil Sangram Baburao	Mart Billing System	International Journal Of Scientific Research In Engg And Management(IJSREM) ISSN 2582 3930 Vol 08 Issue 04
	Patil Tanmay Rhushikesh		
	Teli Sushant Suresh		
	Magadum Tanmay Tanaji		
9	Shinde Madhuri Mahadev	Skin Disease Detection Using Machine Learning	International Journal Of Innovative Research And Technology (IJIRT) ISSN 2349 6002
	Surve Pranali Deepak		
	Sutar Sofiya Taiyaballi		
	Hajare Pallavi Ramesh		
10	Tambad Shreya Raju	Social Media Using Block Chain	International Journal Of Multidisciplinary Research In Science, Engineering And Technology (IJMRSET) ISSN 2582 7219 Vol 7 Issue 4
	Raje Aishwarya Sanjay		
	Mane Nikita Satish		
	Pandey Abhishek Vijay		
10	Tambad Shreya Raju	Social Media Using Block Chain	International Journal Of Multidisciplinary Research In Science, Engineering And Technology (IJMRSET) ISSN 2319-8753 Vol 13 Issue 3
	Raje Aishwarya Sanjay		
	Mane Nikita Satish		
	Pandey Abhishek Vijay		
11	Kulkarni Bhakti Balavant	User Behavioral Analytics And Gamification For Water Conservation	International Journal Of Innovative Research In Computer And Communication Engineering(IJIRCCE) ISSN 2320 9801
	Kamalakar Deep Sachin		
	Kale Yash Santosh		
12	Paraganve Somesh Appasaheb		

Group No.	Name Of Student	Topic Name	Publication Details
	Kumbhar Prathamesh Krushnat	Malware Detection Using Machine Learning	International Journal Of Scientific Research In Engg And Management(IJSREM) ISSN 2582 3930 Vol 08 Issue 04
	Chougule Prasanna Vijaykumar		
	Patil Pratik Sanjay		
	Zambre Shubham Laxman		
13	Sutar Sahil Sanjay	Stress Detection In IT Professionals By Face And Speech	International Journal Of Scientific Research In Engg And Management(IJSREM) ISSN 2582 3930 Vol 08 Issue 04
	Patil Tanmay Balu		
	Salokhe Shraddha Shrikant		
	Shah Reenal Chetan		
14	Kulkarni Deep Prakash	AI Resume Analyzer	International Journal Of Scientific Research In Engg And Management(IJSREM) ISSN 2582 3930 Vol 08 Issue 04
	Shaikh Tanjila Jamir		
	Sutar Aman Aayub		
	Kamble Omkar Baburao		
	Patil Sudarshan Sanjay		
15	Dapale Yogesh Yashvant	Restaurant Recommendation System	International Journal Of Scientific Research In Engg And Management(IJSREM) ISSN 2581 4621 Vol 08 Issue 04
	Farakte Pratik Sanjay		
	Gadad Azhar Mahammedgous		
	Hodagepatil Milind Sanjaykumar		
	Mudalkar Yogesh Balkrishna		
16	Khatib Jafar Khalil	Istitutional Social Media Application (Connet Connecting Knowledge)	International Journal Of Innovative Research In Computer And Communication Engineering(IJIRCCE) ISSN 2320 9801 Vol 12 Issue 4
	Naik Ajay Arun		
	Pol Shruti Ravindra		
	Masal Kajal Akaram		
17	Kolekar Sameer Laxman	UPI Fraud Detection Using Machine Learning	International Journal Of Scientific Research In Engineering And Management (IJSREM) Volume: 08 Issue: 04	April - 2024 SJIF Rating: 8.448 ISSN: 2582-3930
	Pawar Dipak Sakharam		
	Rengade Dnyanendra Ramrao		
	Panhale Sourabh Sukhadev		
18	Kulkarni Avadhut Suhas	Credit Default Analysis	International Journal Of Scientific Research & Development Vol 11 Issue 12 2024 ISSN 2321 0613
	Sayyad Aman Mahiboob		
	Koli Prashant Shankar		
	Ghatage Vishvajeet Nilkanthrao		
	Dhang Chaitanya Suresh		

Table 2.2.12: Students Paper Publications (2023-24)

Group No.	Name Of Student	Topic Name	Publication Details
1	**Pratiksha Gavali(L)**	Chattery The Chatbot	An Industry Skills Oriented Research
	Neha Chavan		

	Name	Project Title	Publication
	Hasnain Lakhani		Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Bishal Malakar		
2	**Jivan Ananda Patil(L)**	Location Based Advertisement Usinggeofence	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Tejas Adhik Shinde		
	Pratik Parashram Jadhav		
	Shreyas Sunil Kamble		
3	**Snehal Shivshant Patil(L)**	Construction Site Inspection By Usingdrone Or Uav	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Vivek Sanjaykumar Admuthe		
	Rushikesh Krishna Patil		
	Nischay Pradip Bhokare		
4	**Vinayak Rajendra Sutar(L)**	Face Recognition Attandance System	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Ajit Mali		
	Mayuresh Mahesh Pujari		
	Sandesh Rajgonda Patil		
	MORE PRAJAKTA CHANDRAKANT		
5	**Sanmay Anil Majlekar(L)**	Customer Mall Segmentation	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Prem Subhash Hogade		
	Sourabh Shivkumar Kesharwani		
	Vishwjeet Vijay Powar		
6	**Saurabh Shivaji Daware(L)**	Urban Emergency Event Detection Using Social Media	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Priyanka Mahadev Bamnale		
	Aishwarya Ashok Patil		
	Ruchita Uddhav Bhosale		
	AVADOBA SHAILESH KESHAV		
7	**Mahesh Siddhu Dhangar(L)**	E-Healthcare Cloud Solution Sneha Satpute1 , Mahesh Siddhu Dhangar2	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Aniket Govind Todkar		
	Pratik Rajendra Jatrate		
	Sourabh Bapuso Kole		
	BHANDARE ABHISHEK SANJAY		
8	**Shraddha Rajendra Kore(L)**	Exploring Devops Culture In Jewellery Web Application	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-
	Sonika Hanmantrao Mahind		
	Takshak Vikram Desai		
	Komal Dewadas Dhok		

			0) 11th WCSEM – June 2023
9	**Aakanksha Kumbhar(L)**	Smart Shopping Trolley	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Siddhi Shrirang Kundale		
	Rutuja Vijay Patil		
	Tanuja Shivaji Sawant		
10	**Manali Balasaheb Narute(L)**	Weather Forecasting (Using Api) And Air Qualityanalysis (Using Image Processing)	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Sakshi Anil Patil		
	Karan Pandurang Kumbhar		
	Rija Kudartali Bagwan		
11	**Harshwardhan Shinde(L)**	E-Prescription	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Siddharth Ashok Khubikar		
	Abhishek Deelip Unde		
	Shreyas Haridas Shirke		
12	**Priyanka Uttam Yedage(L)**	Activity Recognition System For Smart Campus	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Uttara Uday Repe		
	Rutuja Uttam Patil		
	UTTURE OMKAR ANIL		
13	**Harshal Rajgonda Chandoba**	Male Vikas Co-Operative Society	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Radhika Raosaheb Bhosale		
	Nutan Rajendra Sawant		
	Aditi Suresh Patil		
14	**Nihal Jamil Shaikh(L)**	Iot Based Advertising Display	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Harshvardhan Rajendra Patil		
	Prathamesh Vishnu Rokade		
	Pramod Vijay Powar		
15	**Prajakta Shashikant Patil(L)**	Video Summarization Of Surveillance Camera Using	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th
	Amruta Shinde		
	Purva Takale		
	Sanket Patil		

			WCSEM – June 2023
16	**Pournima Adgane(L)**	Smart Ev Charging Station	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Isha Patil		
	Sakshi Jagdale		
	Kiran Narute		
17	**Snehal Bhanase(L)**	Women Security Android Application	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Kshitija Chavan		
	Pranav Gidde		
	Siddhesh Godhade		
18	**Sadiya Ramjan Nadaf(L)**	Basecamp (Kanban Board)	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Rutuja Tanaji Kamble		
	Dhanashri Nilkanthrao Ghatage		
	Pratiksha Rajendra Jangam		
19	**Kedar Indrajeet Sutar(L)**	Diabetes Prediction Using Machine Learning Techniques	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Roshankumar Nayaku Lavate		
	Sankita Katekar		
	Joya Shaikh		
20	**Samruddhi Dixit(L)**	Thyroid Prediction Using Machine Learning	An Industry Skills Oriented Research Article (ISBN : 978-93- 95470 -52-0) 11th WCSEM – June 2023
	Kranti Wani		
	Anjali Mali		
	Sonali Mohite		

Table 2.2.13: Students Paper Publications (2022-23)

Sr no.	Name of Student	Title of paper	Publication details
1	Veda Sandeep Minchekar	Yoga Mentoring Using AI	IRJMETS International Journal of Modernization in Engineering Technology and Science vol:04/Issue:06/June2022 e-ISSN: 2582-5208
	Hrishikesh Ranjeet Gharge		
	Shubham Prakash Patil		
	Amit Shivaji Todakar		
2	Patil Sharvari Vilas	Cotton Leaf Disease	IJCRT- International Journal of Creative Research Thoughts. Vol:
	Sharma Anjali Krishna		

	Kamble Bhagyashree Raju	Detection Using Deep Learning	10 issue 5May 2022|ISSN: 2320-2882
	Jadhav Kajal Bandu		
3	Adesh Ganpati Medhe	Smart Traffic Controller	IJCRT- International Journal of Creative Research Thoughts. Vol: 10 issue 4 April 2022|ISSN: 2320-2882
	Swarupa Gajanan Veturlekar		
	Pavan Panditrao Ghuge		
	Rushikesh Rajendra Khorate		
4	Shubham Aajmane	Survey Paper Pn Real Time Sign Language Interpreter	IJRPR- International Journal of Research Publication and Reviews Vol:- 3,Issue 5,2022|ISSN 2582-7421
	Abhijeet Neje		
	Bahar Khedkar		
	Shreya Koulage		
5	Pooja Chhansing Goutam	Voice Assistant Using Python	IJCRT- International Journal of Creative Research Thoughts. Vol: 10 issue 6 June 2022|ISSN: 2320-2882
	Monika Savakar Jalpure		
	Akshta Shivaji Gavade		
	Pranjali Chaudhary		
6	Shridhar Rajaram Banne	Intelligent Crop And Pesticide Recommendation Portal Using Ml And Ai	IRJMETS International Research Journal of Modernization in Engineering Technology and Science Volume:04/Issue:06/June-2022 Impact Factor- 6.752 ISSN: 2582-5208
	Akil Appaso Bandgar		
	Amanul Rahiman Shamsuddin Attar		
	Omkar Yashwant Bujare		
7	Shraddha Rajendra Kore,	A Review On Symmetric Key Encryption	International Journal of Research and Technology Volume 10, Issue 1, January_2022 ; ISSN: 2321–7529
	Komal Dewadas Dhok,		
	Sonika Hanmantrao Mahind,		
8	Mahima Choudhary	Music Recommendation System Using Facial Emotion	International Journal of Research Publication and Reviews,ISSN 2582-7421
	Alfiya Kazi		
	Aakanksha Patil		
	Samruddhi Patil		
9	Aporva Milind Kale	IOT Based Burglar Notification System Using Image Processing	International Research Journal of Modernization in Engineering Technology and Science|e-ISSN 2582-5208
	Vaidehi Vaibhav Mhaiskar		
	Kajal Khandu Mane		
	Sammed Babaso Shirote		

10	Yuvraj Mali	Smart Video Summarization Using Subtitles	International Research Journal of Modernization in Engineering Technology and Science Volume:04/Issue:07/July-2022 Impact Factor-6.752 |e-ISSN 2582-5208
	Veeraj Malikwade		
	Rushikesh Kamble		
	Harshal Patil		
11	Kayyum Alamgir Jamadar	Survey Paper On Stock Market Prediction	International Journal of Research Publication and Reviews |ISSN 2582-7421
	Nikita Manik Kharade		
	Namira Shakil Bargir		
	Salman Rafik Khan		
12	Pournima Sanjay Magadum	Room Light Controller Using IOT	International Research Journal of Modernization in Engineering Technology and Science |e-ISSN 2582-5208
	Akshata Atul Babar		
	Srushti Sambhaji Shiudkar		
	Neha Jaywant Suryawanshi		
13	Ashwini Sanjay Teli	Survey Paper On Automatic Number Plate Recognition	International Journal of Research Publication and Reviews| ISSN 2582-7421
	Swaroop Surendra Bandekar		
	Dhanshree Landge		
	Saraswati Jotiba Gore		
14	Sejal Satish Jaknur	Data Storage And Billing System	International Journal of Research Publication and Reviews |ISSN 2582-7421
	Prasenjeet Satish Gangawane		
	Prasanna Vilas Dalvi		
	Manasi Shirish Deshpande		
15	Shubham Aajmane	Research Paper On Real-Time Sign Language Interpreter Using Mediapipe Holistic	International Journal of Research Publication and Reviews |ISSN 2582-7421
	Abhijeet Neje		
	Bahar Khedkar		
	Shreya Koulage		
16	Rohit Ravindra Konduskar	Research Paper On COVID 19 Protection Automatic Door	International Research Journal of Modernization in Engineering Technology and Science |e-ISSN 2582-5208
	Ayush Kiran Kamble		
	Nitin Gajanan Kotwal		
	Omkar Pandurang Kapase		
	Saif Rashid Shaikh		

Table 2.2.14: Students Paper Publications (2021-22)
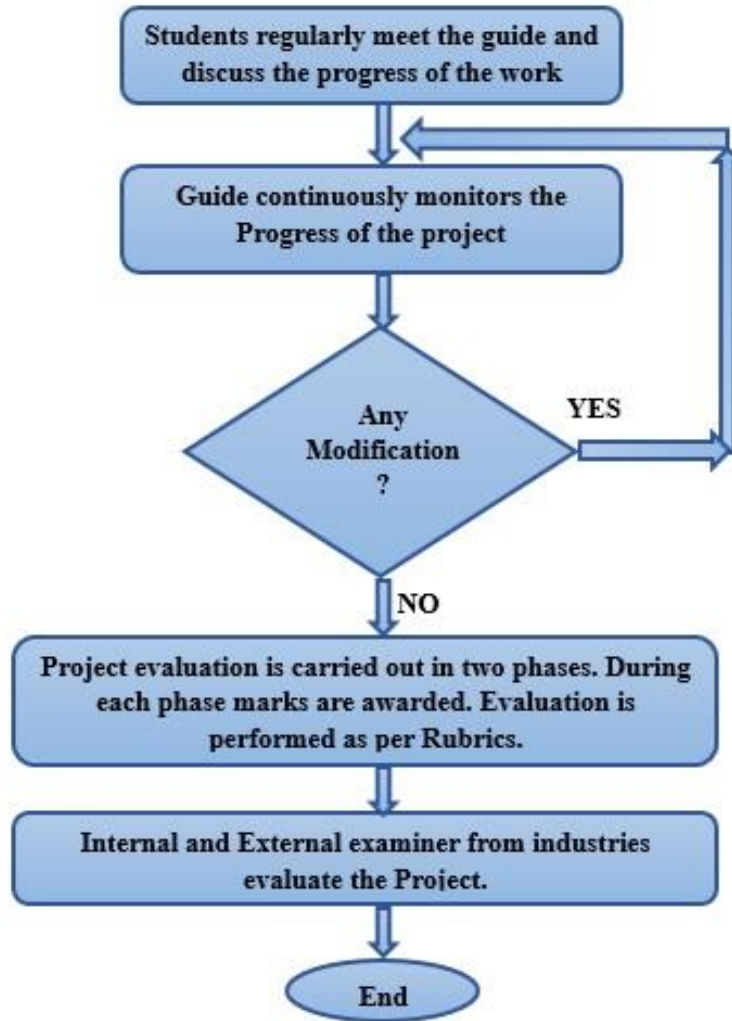
Fig. 2.2.6: Process to assess individual and team performance for Project

2.2.4. Initiatives related to industry interaction (15)

A. MoU with Industries: To strengthen interaction with industries and to keep our students updated with the latest trends in computer engineering, the Department has entered into a MoU with the industries. Industry interactions help the students to acquire practical knowledge. So, in order to improve the technical abilities various industrial activities are carried out.

List of MoUs Signed:

Sr. No	Name of the institution/ industry with whom MoU is signed
1	ITnium, Sangali
2	Rackson IT Developers, Jaysingpur
3	Domain Computer Education, Sangli
4	MindIT Services, Miraj
5	Revolution IT Solutions, Kolhapur

6	Platominds Services Pvt. Ltd., Kolhapur
7	TechSpeak IT Solutions, Sangli

Table 2.2.15: List of MoUs Signed

B. Industry involvement in the program design and partial delivery of courses for student

1. Our institute is affiliated to Shivaji University, where in Board of Studies is constituted to execute the educational operations of the program.

2. Industry representations are considered on BoS.

3. Our curriculum is formulated and reviewed once in four years through this BoS.

4. At the time syllabus formulation common meeting of our faculty members and BoS is conducted, wherein we receive inputs from industry persons.

5. In our program we do have Departmental Advisory Board (DAB) which comprises industry persons.

6. In detail discussions with DAB members, we review the syllabus and again gets the gaps or extra points to be covered for the design of the syllabus.

7. These points are further communicated to BoS for next iteration of the syllabus content.

C. Industry Involvement in partial delivery of courses for students: -

Besides regular lectures Industrial expert lectures are organized for students, wherein industry persons speak on some of the curriculum contents to pick up necessary skills besides the knowledge gained through classroom teaching. Industrial visits are also organized to give exposure of industrial practices to students. It promotes the industry-Institute interaction and gives students exposure to the industrial atmosphere. The details are shown in table 2.2.16, 2.2.17 and 2.2.18

Sr. No.	Topic	Date- Month-Year	Resource person with designation	Relevance to POs, PSOs
1	Expert Lecture on Project Life Cycle and Project Management"	16/09/2023	Mr. Satish Sitaram Bharadwaj	POs: 1, 5, 6, 11, 12 PSOs: 1, 2
2	Expert lecture on Implementation of pointers and structures in C language	27/10/2023	Ms. S. S. Satpute Assistant Professor SCES Smt Kashibai Navale College Of Engg. Vadgaon, Pune	POs: 1,2,3,PSO2
3	Real Time Application of NLP	14/02/2024	Dr.P.J.Kulkarni	POs: 6,9,10, PSO1, 2
4	Expert lecture on Cyber Security	14/02/2024	Ms Vanshree Akkalkot Domain Computer Sangli.	POs: 5,7, 9,10, PSO:2
5	Real time use of Git Hub(In collaboration with Google Developers group)	14/03/2024	Prof. P. S. Ambupe, Dr. J. J. M. C. O. E.	POs: 1-5, 6, 6, 12 PSOs 1,2
6	Innovation to Computer Vision	07/02/2024	Mr. Abhay Chougule, CEO, RacksonIT Developers Pvt. Ltd., Pune.	POs: 1-5, 6, 6, 12 PSOs 1,2
7	Current Trends in Artificial Intelligence and & Machine Learning	26/07/2023	Mr. Aditya N. Magdum, Data Scientist, Myclean Services Pvt. Ltd.., Pune	POs: 1-5, 6, 6, 12 PSOs 1,2
8	Working of Chat GPT and Applications	04/08/2023	Mr. Abhay Chougule, CEO, RacksonIT Developers Pvt. Ltd., Pune.	POs: 1-5, 6, 6, 12, PSOs 1,2
9	AI in Digital Marketing	26/09/2023	Mr. Akshay A. Pujari, Founde, Shivam Creation, Miraj.	POs: 1-5, 6, 6, 12 PSOs 1,2
10	Guest Lecture: Research Attachment Program at Malaysia	04/10/2023	Dr. U. B. Deshannvar, Advisor, Dr. JJMCOE.	POs: 1-5, 6, 6, 12 PSOs 1,2

Table 2.2.16: List of guest & expert lectures / workshop by industry personnel (2023-24)

Sr. No.	Topic	Date- Month-Year	Resource person with designation	Relevance to POs, PSOs
1	Data Analytics & Text Analytics in Data Science	25/04/2023	Mr. Y. L. Hakim, A Corporate Trainer: Python, Data Science, ML & AI	PO 6, 9, 10, PSO 1, 2
2	Recent trends in IT	21/04/2023	Mr. Sourabh Deotale, CEO Acuratech Pvt. Ltd, Pune	PO 5, 7, 9, 10, PSO 2
3	Expert lecture on Full stack Development & AWS Cloud	18/04/2023	Mr. Nilesh Takale, Director, ITnium, College of International Certification, Sangli	PO 6, 8, PSO 2
4	Guest Lecture on Introduction to Python	27/03/2023	Mr.Vaibhav Sutar, Director, Vishwa Technologies, Kolhapur	PO 6, 9, 10
5	One Day Workshop on Amazon Web Services (AWS)	21/03/2023	Mr.Shailesh H. Dinde, Senior QA Engineer, Windmill smart solutions Pvt. Ltd.,	PO 7, 9, 11
6	One Day Workshop on Recent Trends in Cloud Computing	20/12/2022	Mr. Amar Kalvikatte, Tech Lead AVIATRIX Netharlands	PO 7, 9, 11
7	Expert lecture on Java	03/12/2022	Mr. Mahesh Bhatkande, Java expert, UST Global Pvt.Ltd	PO 6, 7, 9, PSO 2
8	Expert lecture on Cyber Crime	25/11/2022	Mr. Vishwajit Patil , Cyber Expert at Maharashtra Cyber Mumbai	PO 7, 8, 10, 12, PSO 1, 2
9	Expert lecture on AWS Cloud	16/11/2022	Ms. Vanashri Akkalkot Domain Computer Sangli	PO 5, 9, PSO 2
10	Computer Hardware and Networking	07/11/2022	Mr. Akshay Mane, AM Computers Shirol.	PO 1-4, 7, 9
11	Trends of latest Technologies in IT	03/10/2022	Mr. Nilesh Takale, ITnium Sangli	PO 5, 7, 9, 10, PSO 2

Table 2.2.17: List of guest & expert lectures / workshop by industry personnel (2022-23)

Sr. No.	Topic	Date-Month-Year	Resource person with designation	Relevance to POs, PSOs
1	Artificial Intelligence & Applications	12/05/02022	Mr. A. B. Chougule, CEO and Data Scientist / AI Engineer, RacksonsIT Developers Pvt. Ltd.	PO6-10, PSO2
2	Computer Hardware and Networking	29/10/2021	Mr. Akshay Mane, owner AM Computers Shirol	PO6-8, PSO2
3	AWS Cloud	21/10/2021	Mr. Nilesh Takale, Director, ITnium Sangli	PO1,5, 6, 8

Table 2.2.18: List of guest & expert lectures / workshop by industry personnel (2021-22)

- **Industrial visits**

Industrial visits were arranged to facilitate industry interaction; the details are given in Table 2.2.19

Students attended	Name of the organization	Date of visit
100%	tCognition Kolhapur.	21/04/2023
57%	Domain Computers Sangli.	19/11/2022
55%	BSNL Panaji Goa	23/05/2022
80%	All India Radio Station, Kolhapur, Panhala.	15/02/2022

Table 2.2.19: Details of industrial visits

a) **Department Advisory Board:** Representatives from industry are included in the Department Advisory Board (DAB) for effective teaching-learning process. Table 2.2.20 represents the members from industry as DAB.

Sr. No.	Name	Designation	Organization
1	Mr. Abhay Chougule	Data Science Consultant and AI trainer	RacksonIT Developers Pvt. Ltd. (22-23, 21-22)
2	Mr. Manoj Kumbhar	Program Lead	Xanthus Software Solutions. (22-23, 21-22)
3	Mr. R. L. Patwardhan	Retd. general manager,	Kirloskar Brothers Limited., Kirloskarwadi. 20-21
4	Mr. Roshan D. Porwal	Director	Innothoughts System Pvt. Ltd.,
5	Mr. K. Saidas	Executive Director	Cache technologies Pvt. Ltd., Kolhapur

| 6 | Mr. Pankaj S. Porwal | IT Manager | Innothoughts System Pvt. Ltd. |

Table 2.2.20: Representatives from industry in DAB

Impact analysis:

1. As an MOU signed between CSE Department & RacksonIT Developers Pvt.Ltd, Pune various lectures on topic AI, Chat Gpt ware conducted by Mr. A.B. chougule CEO of Company.

2. Mr. A. B. Chougule is working as industry representative in Department Advisory Board (DAB) for overall development of department.

3. As an MOU signed between CSE Department & ITnium Sangli various lectures on topic AWS Cloud, Full-stack development ware conducted by Mr. Nilesh Takale Director of Company.

4. As an MOU signed between CSE Department & Domain Computer Sangli, Industrial Visit was organized.

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

Summer trainings / Industrial trainings

Tables 2.2.22, 2.2.23 and 2.2.24 show the details of industrial training for the academic years 2023-24, 2022-23, and 2021-22, respectively.

A. Industrial Visit: -

The department organizes visits for students to relevant organizations/companies to enable the students to experience the practical implementation of theoretical knowledge in real world. This gives the main sight of the work culture ethics prevailing in Industries.

The industry visits organized by department supplements the course/curriculum knowledge with hands on, direct work environment interaction. They can identify the knowledge gaps and become prepared to face industry job interviews by final year.

Name of the organization	Date of visit	Students attended
tCognition Kolhapur	21/04/2023	95%
Domain Computers Sangli	19/11/2022	95%
BSNL Panaji Goa	23/05/2022	90%

	All India Radio Station, Kolhapur, Panhala.	15/02/2022	96%

Table 2.2.21: Industrial Visits

B. Internship/Industrial Training

- To bridge the gap between institute and industry students undergo internship of minimum 4 weeks. It helps the students to get exposure of the industry environment which makes them to work individually or in a team. Every student submits training- certificate after the successful completion of industrial training along with detailed training-report of the contents covered during his/her training.

- Tables 2.2.22, 2.2.23 and 2.2.24 show the details of industrial training for the academic years 2023-24, 2022-23, and 2021-22 respectively.

Sr. No.	Name of Company	Total Student
1	Comtranse Technology,Kolhapur	9
2	Tecspeak It Solutions,Sangli	4
3	Revolution It Solutions ,Kolhapur	6
4	Softron,Kolhapur	12
5	Infilot Technologies, Kothrud, Pune	6
6	Mysoftway Technology And IT Consultancy, Ichalkaranji	1
7	Amp-Soft It Solutions Pvt Ltd, Kolhapur	1
8	R.G Software Solutions	1
9	Stipl, Sangli.	5
10	AVR Technology ,Sangli	1
11	Racksonsit Developers Pvt Ltd, Pune	6
12	Jangs Technologies, Ichalkaranji	5
13	Domain Computers Sangli	3
14	Dreambuzz Solutions Pvt Ltd ,Mysuru	1
15	Octanet Software Services, Banglore	1
16	Itian Softwares	6

17	Shikuyaa Upskill	1
18	Platominds Services , Kolhapur.	1
19	One It Solutions	2
20	Yhills Technology Pvt Ltd,Pune	4
	Total	76

Table 2.2.22: Industrial Training details (2023-24)

Sr. No.	Name of Company	Total Student
1	Tecspeak IT Solution	36
2	Itnium	7
3	Revolution IT	5
4	One Star	1
5	Neepco Ltd	1
6	Saint Louis	6
7	Acmegrade	1
8	Comtranse	4
9	Webstar	2
10	SV Mind	4
11	Rachitha In fo	8
12	StromesOFT	1
13	Rackson IT	2
14	Futureskill	1
15	Internship Studio	1
16	Matrix	1
17	Webstar	1
	Total	82

Table 2.2.23: Industrial Training details (2022-23)

Sr. No.	Name of Company	Total
1	**Revolution IT**	22

Table 2.2.24: Industrial Training details (2021-22)

C. Impact analysis:

Industrial training helps students in acquiring knowledge and comprehending the work culture, safety protocols, and ethical practices within industries. Subsequently, students submit a technical report and deliver presentations before a committee to showcase their practical experience and learning. The students acquired:

- Hands on experience provide better understanding of the basic concepts. Students learn the industrial standards, current trends and practices.

- Internships in the industries endow the students with the following benefits.

- Helps in building inter personal skills and teamwork.

- Communication skills of the students are improved.

D. Student feedback on initiative: Feedback on different initiatives related to industry institute interaction is collected from the students. It is used to do further improvement for the same. Sample feedback is shown below:

Dr. J.J. Magdum Trust's
Dr. J. J. Magdum College of Engineering, Jaysingpur - 416101
Department of Computer Science & Engineering

Industrial Visit Student's Feedback

Dear Students,

This questionnaire is intended to collect information regarding various aspects of the industrial visit. The information provided by you will be used as an important feedback for improvement of the curriculum.

Sr. No.	Question	Excellent	Very Good	Good	Fair	Poor
1	Whether the visit was well organized and time bounded?		✓			
2	Whether the location selected was appropriate to meet the objectives?			✓		
3	Whether the visit was useful to strengthen knowledge gathered in lecture?		✓			
4	Applicability/relevance to real life situations	✓				
5	Depth of the course content provided during visit	✓				
6	Whether course content is covered by corresponding reference books/materials?			✓		
7	Whether knowledge you gained in industrial visit was related with the relevant course?		✓			
8	Did the industrial visit was as per your expectations?	✓				
9	How would you rate your overall experience of the visit?		✓			

Any other suggestion: ___—___

Name of the Student: _Rutuja Awale_   Class: _SY CSE_

Roll No. _2_   Date of the Visit _19/11/22_

Name of the course for which Industrial Visit arranged: _C- Programming_

Place of the visit: _Sangli (Domain Computer)_

Date of the Visit _19/11/22_

Fig.2.2.7 Student's Feedback form with Industrial Visit

CRITERIA 3
Course Outcomes and Program Outcomes

CRITERION 3	Course Outcomes and Program Outcomes	120

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

	Program Outcomes
PO1	**Engineering Knowledge:** Apply knowledge of mathematics, science, engineering Fundamentals and an engineering specialization to the solution of complex engineering problems.
PO2	**Problem Analysis:** Identify, formulate, research literature and analyses complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
PO3	**Design/Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.
PO4	**Conduct investigations of complex problems:** using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.
PO5	**Modern Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an under-standing of the limitations.
PO6	**The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequents possibilities relevant to professional engineering practice.
PO7	**Environment and Sustainability:** Understand and the impact of professional engineering solutions in societal and environmental contexts and demonstrates knowledge of and need for sustainable development.
PO8	**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
PO9	**Individual and Team Work:** Function effectively asinine visual, and as a member or leader in diverse teams and in multidisciplinary settings.
PO10	**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and writ effective reports and design documentation, make effective presentations and give an deceive clear instructions.
PO11	**Project Management and Finance:** Demonstrate knowledge and understanding of engineering and management principles and apply these too

	nelson work, as a member and leader instead, to manage projects and in multidisciplinary environments.
PO12	**Lifelong 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.

Program Specific Outcomes	
PSO1	Learn and apply latest Software Technologies in the field of Computer Science & Engineering.
PSO2	Identify real time problems and deliver innovative Software solutions for development of society.

3.1.1. Course Outcomes (COs) (05)

The Course Outcomes (COs) are defined in accordance with the University curriculum revised in 2019. The COs for one course each from 3rd to 8th semester is presented from Table 3.1.1 to 3.1.6.

At the end of the course, the students will be able to:

COs	Statements
Discrete Mathematics &Structure C202	
CO1	Apply logic concepts in designing a program.
CO2	Illustrate basic set concepts & apply operations on set.
CO3	Minimize the Boolean Function.
CO4	Apply basic concepts of probability to solve real world problems.
CO5	Represent data structures using graph concepts.
CO6	Design abstract machine, detect deadlocks

Table 3.1.1 Course Outcomes of Discrete Mathematics & Structure-C202 (Third Semester)

Automata Theory C208	
CO1	Understand basic concepts of Regular Language and Regular Expressions
CO2	Select appropriate abstract machine to recognize a given form all language.
CO3	Generate complex languages by applying Union, Intersection, Complement, Concatenations Kleene * operations on simple languages.
CO4	Apply parsing concepts for syntax analysis
CO5	Be familiar with thinking analytically and intuitively for problem solving situations in related areas of theory in computer science.

Table 3.1.2 Course Outcomes of Automata Theory C208 (Fourth Semester)

System Programming C302	
CO1	Student will be able to identify the role of system programs and application programs
CO2	Student will be able to understand the basics of system programs like editors, compiler, assembler, linker, loader, interpreter and debugger
CO3	Students are able to describe the various concepts of assemblers and macro - processors.
CO4	Students are able to understand the various phases of the compiler and compare its working with the assembler.
CO5	Students understand how linker and loader create an executable program from an object module created by assembler and compiler.
CO6	Students will be able to create graphical user interfaces for basic programs and learn about terminal input/output through the termios libraries.

Table 3.1.3 Course Outcomes of System Programming C302(Fifth Semester)

Machine Learning C311	
CO1	Explain basics and mathematical concepts of Machine Learning.
CO2	Analyze data for the selection of appropriate Machine Learning algorithm.
CO3	Apply Machine Learning algorithms to solve real life problems.
CO4	Analyze / Evaluate performance of Machine Learning algorithms for a given problem.

Table 3.1.4 Course Outcomes of Machine Learning C311(Sixth Semester)

Artificial Intelligence C404	
CO1	Evaluate Artificial Intelligence (AI) methods and describe their foundations.
CO2	Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation and learning.
CO3	Demonstrate knowledge of reasoning and knowledge representation for solving real world problems.
CO4	Discuss current scope and limitations of AI and societal implications.

Table 3.1.5 Course Outcomes of Artificial Intelligence C404(Seventh Semester)

Block chain Technology C411	
CO1	To explain design principles of Bitcoin and Ethereum
CO2	To explain Nakamoto consensus.
CO3	Explain the Simplified Payment Verification protocol.
CO4	List and describe differences between proof-of-work and proof-of-stake consensus.
CO5	Interact with a block chain system by sending and reading transactions.
CO6	Design, build, and deploy a distributed application.

Table 3.1.6 Course Outcomes of Blockchain Technology C411(Eighth Semester)

3.1.2. CO-PO & CO-PSO matrices of courses selected in 3.1.1 (05)

The following six tables list the CO-PO and CO-PSO correlation of courses selected in 3.1.1

Course Outcomes	Discrete Mathematics & Structure (Third Semester)												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3											2	
CO2	3	3											2	
CO3	2	3	3	3									3	
CO4	2	3	3	2									3	
CO5	2	3	3	2									3	
CO6	2	3	3	2									3	3
Average	2	3	3	2.25									2.75	2.5

Table 3.1.7 COs-POs & COs-PSOs matrix of Discrete Mathematics & Structure C202

Course Outcomes	Automata Theory (Fourth Semester)												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3													
CO2		3			2									
CO3			3											
CO4	3	2		2									2	1
CO5					3									
Average	3	2.5	3	2	2.5								2	1

Table 3.1.8: COs-POs & COs-PSOs matrix of Automata Theory C208

Course Outcomes	System Programming (Fifth Semester)												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2			2	2								3	2
CO2	2	3			2								2	3
CO3		3	3		2									
CO4	2			2										
CO5		3			2									
CO6			3		2								3	
Average	2	3	3	2	2								2.66	2.5

Table 3.1.9: COs-POs & COs-PSOs matrix of System Programming C302

Machine Learning (Sixth Semester)														
Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2
CO1	3													
CO2		3												
CO3			3		2	2								3
CO4				2	2	2		3	3	2	3	3		
Average	3	3	3	2	2	2		3	3	2	3	3		3

Table 3.1.10: COs-POs & COs-PSOs matrix of System Programming C302

Artificial Intelligence (Seventh Semester)														
Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2
CO1		3				1							2	
CO2	3				2									
CO3			3											
CO4				3										
Average	3	3	3	3	2	1							2	

Table 3.1.11: COs-POs & COs-PSOs matrix of Artificial Intelligence C404

Block chain Technologies (Eighth Semester)														
Course Outcomes	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO12	PSO1	PSO2
CO1		2	2										2	2
CO2		3												3
CO3	2				3								3	
CO4	3	2												2
CO5			3	2									3	
CO6			2										3	
Average	2.5	2.3	2	3	2.5								2.75	2.33

Table 3.1.12: COs-POs & COs-PSOs matrix of Block chain Technologies C411

Note:
1.Enter correlation levels 1, 2 or 3 as defined below:
1: Low 2: Medium 3: Strong
It there is no correlation, put " "

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

a) The mapping of all the courses with POs in accordance with procedure followed in 3.1.2 is summarized and presented in Table 3.1.13

Course	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
I SEMESTER														
C101	2.75	2.75	1.75	1.75					1.00	1.00				
C102	3.00	3.00	2.00											
C103	3.00	3.00	2.66	3.00						3.00				
C104	3.00	2.33			2.00	2.33	2.00	2.00	2.50		2.00	2.00		
C105	3.00	3.00	3.00	3.00										
C106					3.00				3.00	3.00		2.00		
C107	3.00					3.00	3.00							
II SEMESTER														
C108	3.00	3.00												
C109	3.00	3.00	2.00											
C110	3.00	2.00	3.00			3.00								
C111	3.00	3.00												
C112	3.00	3.00	3.00											
C113					3.00			3.00	3.00	3.00				
C114	3.00					3.00	3.00							
III SEMESTER														
C201	3.00	3.00	2.00											
C202	2.00	3.00	3.00	2.00									2.75	2.50
C203	3.00	2.33	3.00	3.00							2.00	2.00	2.66	
C204	3.00	3.00	3.00	2.00	3.00	2.00	3.00				3.00		3.00	
C205	3.00	3.00	3.00	3.00	2.00	2.50								
C206	3.00	2.66	2.33	2.00						2.00		2.66	2.00	2.66
C207								2.00	2.00	2.33		2.00		
IV SEMESTER														
C208	3.00	2.50	3.00	2.00	2.50								2.00	1.00
C209	3.00	3.00	2.00	2.00	3.00	2.00						2.00		3.00
C210	3.00	3.00	3.00	2.00									3.00	3.00
C211	3.00	3.00	2.00	3.00									3.00	
C212	2.00	3.00	3.00	2.00	3.00				2.00					2.00
C213	3.00	2.50	3.00	3.00						2.00		2.00	2.50	2.50
C214	3.00	2.00	3.00	3.00	1.5			1.5	1.5		2.00	2.00	2.00	2.00
C215	1.75	2.25	1.75	1.50	2.00	2.50	3.00	2.75	2.50	2.00	1.50	2.75	2.25	2.50
V SEMESTER														
C301	3.00	3.00	3.00			1.00							2.00	
C302	2.00	3.00	3.00	2.00	2.00								2.66	2.50
C303	1.00	3.00	3.00	3.00	3.00								2.33	2.75
C304	1.00	1.30	2.00	1.00	1.50	1.00							2.30	2.00
C305	3.00	2.00	3.00	2.00	2.00	2.00	3.00		3.00		2.00	3.00		3.00
C306	2.5	2.5	3.00	2.00	3.00			3.00					2.00	2.3

Course														
C307								2.00	2.00	2.00		2.00		
VI SEMESTER														
C308	2.50	2.50	3.00	3.00	2.00			2.00					2.00	2.30
C309	2.80	2.33											2.50	2.50
C310	3.00	3.00	2.00	2.00	3.00	2.00							3.00	2.00
C311	2.00	3.00	3.00	2.00									2.75	2.50
C312	3.00	3.00	3.00	3.00	2.00	1.00							2.00	
C313	2.00	3.00	3.00	2.00	3.00								2.6	2.5
C314	2.00	2.67	2.25	1.50	2.00	2.50	2.33	2.00	2.75	2.25	2.50	3.00	2.00	3.00
VII SEMESTER														
C401	3.00	2.80	3.00	2.25									2.67	3.00
C402	2.00	3.00	3.00	2.00	3.00	3.00							2.50	2.50
C403	2.00	3.00	3.00	2.00	2.00	2.00						2.00	2.66	2.50
C404	3.00	3.00	3.00	3.00	2.00	1.00							2.00	
C405	2.00	3.00	3.00	2.30	3.00								2.00	2.30
C406	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.30	2.00	2.00	2.00	2.00	2.00
C407	3.00	2.00	3.00	3.00	2.00	2.00		2.00	2.00	2.33	2.33	2.33	2.00	2.00
VIII SEMESTER														
C408	2.50	3.00	3.00	2.00	2.00								2.30	3.00
C409	3.00	3.00	3.00	2.00	2.00	2.00						2.00	3.00	3.00
C410	2.00	3.00	3.00	2.00	2.00	2.00						2.00	2.50	2.50
C411	2.50	2.30	2.00	3.00	2.50								2.80	2.30
C412	3.00	3.00	3.00	3.00	2.00	1.00							2.00	
C413	2.25	2.33	2.66	1.50	1.75	2.00	2.00	2.00	2.00	2.00	2.00	2.75	2.00	2.75
C414	1.75	2.25	1.75	1.50	2.00	2.50	3.00	2.75	2.50	2.00	1.50	2.75	2.25	2.25

Table 3.1.13 CO-PO Matrix

Note:
1.Enter correlation levels 1, 2 or 3 as defined below:
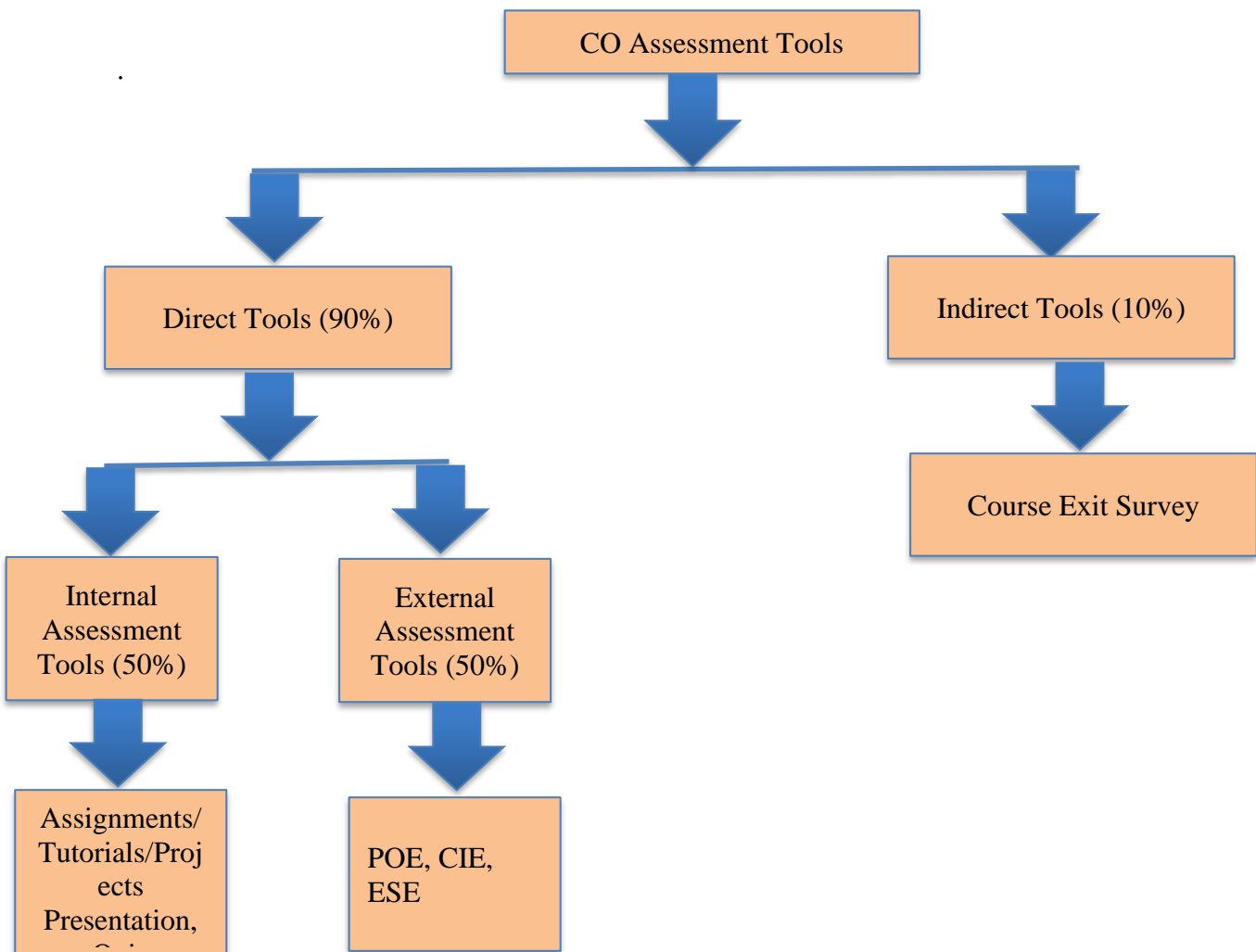1: Low 2: Medium 3: Strong
It there is no correlation, put " "

3.2. Attainment of Course Outcomes (50)
3.2.1 Describe the assessment process used to gather data upon which the evaluation of Course Outcome is based (10)

Assessing a course's effectiveness and measuring its achievement of intended goals depends on the evaluation of course outcomes. This evaluation involves the following steps:

- Course outcomes: The first stage involves adopting the course outcomes mentioned in the university curriculum, which involves identifying the specific knowledge, skills, and abilities students are expected to gain by the end of the course. Typically, four to six course outcome statements are mentioned for each course.

- Develop assessment tools: After adopting the course outcomes, the subsequent step involves establishing assessment tools designed to measure the extent to which students have attained these objectives.

- List of tools used to assess the attainment of COs:
    - Internal Assessments.
    - End Semester Examination

- Quality/Relevance of assessment processes and tools used
    - Internal Assessments:
        - Continuous Internal Evaluations (CIE): Two CIEs are conducted during every semester. Final assessment marks are awarded as per university guidelines. These tests will prepare the students for the university examination.
        - Continuous Laboratory assessment: At the end of each laboratory session, laboratory test conduction and evaluation are done as per the rubrics. This test will enhance the confidence of students to face university practical examinations.
        - Project evaluation: Evaluation is done in phases by a department research committee.

    - End Semester Examination: University conducts both theory and practical/project examination as per the calendar of events announced. Evaluation and declaration of results is done by the university with a scope to apply for revaluation.

- Assessment Tools - The evaluation of the Course Outcomes (COs) involves the use of both direct and indirect assessment tools, with greater weightage assigned to the former. Specifically, 90% weightage is given to direct assessment tools, which include both internal assessments and external assessments. Meanwhile, indirect assessment tools are assigned a weightage of 10%.

- CO is assessed through a combination of direct and indirect methods.

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                        ┌─────────────────────────┐
                        │   CO Assessment Tools   │
                        └───────────┬─────────────┘
                    ┌───────────────┴───────────────────────┐
                    ▼                                        ▼
          ┌──────────────────┐                   ┌──────────────────────┐
          │ Direct Tools (90%)│                   │ Indirect Tools (10%) │
          └────────┬──────────┘                   └──────────┬───────────┘
            ┌──────┴──────────┐                              ▼
            ▼                 ▼                    ┌──────────────────────┐
  ┌──────────────┐   ┌──────────────┐              │  Course Exit Survey  │
  │   Internal   │   │   External   │              └──────────────────────┘
  │  Assessment  │   │  Assessment  │
  │  Tools (50%) │   │  Tools (50%) │
  └──────┬───────┘   └──────┬───────┘
         ▼                  ▼
  ┌──────────────┐   ┌──────────────┐
  │ Assignments/ │   │  POE, CIE,   │
  │Tutorials/Proj│   │  ESE         │
  │     ects     │   │              │
  │ Presentation,│   │              │
  └──────────────┘   └──────────────┘
```

Direct Assessment Tools: To assess the attainment of Course Outcomes (COs), a range of assessment tools are used at different intervals throughout the course. Table 3.1 presents a comprehensive overview of these assessment tools, including the frequency at which they are administered. By utilizing a variety of methods to evaluate learning outcomes, course teachers

can gain a more complete understanding of students' knowledge, skills, and ensure that the curriculum is meeting the desired standards.

S. No.	Assessment Tool	Description	Evaluation of Course Outcomes	Related PO & PSO	Frequency of Assessment
Internal Assessment Tools					
1	Assignments	Set of questions to solve	Questions in the assignment are mapped against two CO of the respective course.	Corresponding mapped POs/PSOs with the COs	For each assignment
2	Project Presentation	Progress Presentation		Corresponding mapped POs/PSOs with all COs	For each project group
3	Quiz	Online MCQ	Questions in the quiz are mapped against the CO of the respective course.	Corresponding mapped POs/PSOs with all COs	For each quiz
4	CIE	Written examination	Questions in the exam are mapped against COs corresponding to the first three units of the respective course.	Corresponding mapped POs/PSOs with all COs	For each CIE
5	Term Work	Based on the continuous assessment during regular sessions	Based on the COs mapped with the experiments / Assignments	Corresponding mapped POs/PSOs with the COs	At the end of term
External Assessment Tools					

5	ESE	Written examination	Questions in the exam are mapped against COs corresponds to complete syllabus of respective course	Corresponding mapped POs/PSOs with all COs	At the end of term
6	POE	Based on the experiments / assignment performed during practical session	Based on the COs mapped with the experiments / Assignments	Corresponding mapped POs/PSOs with the COs	At the end of term

Table 3.2.1 Assessment Tools

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Indirect Assessment Tools: Course Exit Survey. A course exit survey is a feedback tool used to gather information from students at the end of a course. Its purpose is to assess the effectiveness of the course. Typically administered in the final week of the course, the survey covers course content in the form of CO statements. To be effective, course end surveys are well-designed and focused on relevant and meaningful questions. Course teachers carefully analyze the results of the survey and make necessary changes to their course design and teaching methods based on the feedback received. The weightage assigned to the indirect assessment tool in CO attainment highlights its importance in evaluating the effectiveness of the course design and teaching methods. By using this feedback to make informed decisions about course improvements, Course teachers ensure that future iterations of the course are even more effective in helping students achieve their learning goals.

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

Evaluation of CO Attainment by Direct Assessment Tool

The evaluation of course outcome (CO) attainment by assessment tool involves a systematic process of collecting and analyzing data to determine the extent to which the course objectives have been met. The following steps are taken for this evaluation:

Choose an appropriate assessment tool: There are various internal and external assessment tools that are used. The choice of tool is aligning with the objectives and course outcomes of the course.

Determine assessment criteria: The assessment criteria are clearly defined and communicated to students. This will help to ensure that students understand what is expected of them and how their performance will be evaluated.

Administer assessment: The assessment tools are administered in a fair and consistent manner.

Analyze results: The results of the assessment should be analyzed to determine the extent to which the course objectives have been met. This analysis should take into account the strengths and weaknesses of the students and the course. This analysis can be used to inform future instructional strategies and to improve the course content.

Evaluate the effectiveness of the assessment: It is important to evaluate the effectiveness of the assessment to determine if it has been successful in achieving its intended purpose. This evaluation may involve soliciting feedback from students or conducting a review of the assessment process Internal assessment tools consist of Test, Assignment, Continuous to evaluate CO attainment level.

Following Procedure is followed for the assessment of attainment of Cos through internal assessment marks and end semester marks.

Setting of attainment levels

Attainment levels for Course Outcomes (COs) are a measure of student's achievement in meeting the course objectives. These   levels are assessed using a variety of tools, and the attainment level may be stated as a percentage of students expected to achieve a certain threshold of marks. The attainment level is then measured as the actual percentage of marks. The attainment level is then measured as the actual percentage of students who meet or exceed the set threshold. For every course attainment level is varied depending upon difficulty of subjects.

For example, the defined attainment levels for subject Database Engineering are;

Attainment Level 1: Average students scoring 40 % to 50 % marks out of the relevant maximum marks.

Attainment Level 2: Average students scoring 51 % to 60 % marks out of the relevant maximum marks.

Attainment Level 3: Average students scoring more than 61% students marks out of the relevant maximum marks

Step1: **Course Outcome attainment levels:**

The CO attainment levels are set for each course. For every course attainment levels are set by teacher depending upon difficulty level of subject. Accordingly, the target levels for CO attainment are set.

Step2: **Criteria for setting and improvement of the target levels:**

For every course the target level for an assessment year is set on the basis of the target achieved in the previous year.

Step3: **Weightage and CO attainment achieved:**

As per the University curriculum, the total marks for the theory course is 100, which is split into70 marks (70%) for university examination and 30marks (30%) for Continuous Internal Assessment. Accordingly, the weightage adopted for the program are:

• 50% weightage for university examination and

• 50% weightage for internal assessment.

The Course outcomes attained through direct and indirect tools are presented in Tables 3.2 for the academic years 2022-23.

Attainment of COs for the Batch (AY:2021-2022)

SY: SEM-I						
Subject	CO1	CO2	CO3	CO4	CO5	CO6
Applied Mathematics	2.39	2.80	3.00			
Discrete Mathematics & Structures	2.65	2.01	1.89	2.25		
Data Structure	2.75	2.81	2.75	2.00		
Computer Network I	2.23	2.23	2.23	2.34	2.00	2.30
Microprocessor	2.15	2.55	2.30	2.00	2.58	1.88
C Programming	2.57	2.70	2.70	2.70		
Soft Skill	2.10	2.10	2.10			
SY: SEM-II						
Automata Theory	2.70	2.70	2.70	2.80	2.70	2.40
Computer Network II	2.66	2.72	2.62	2.60	2.60	2.45
Computer Organization &	2.92	2.75	2.45	2.59	2.90	3.00
Operating System - I	2.45	2.60	2.37			
Software Engineering	2.10	2.19	2.22	2.17	1.90	
Object Oriented Programming	2.02	2.00	1.90	2.00		
Mini Project	3.00	2.19	2.22	2.17		

| Environmental Studies | 2.00 | 2.00 | 2.00 | 2.90 | | |

Table 3.2.2: Attainment of COs for the A.Y:2021-22(Second Year)

TY: SEM-I						
Subject	CO1	CO2	CO3	CO4	CO5	CO6
Information Security	2.30	2.90	2.90	2.90		
System Programming	2.63	2.62	2.68	2.56	2.60	2.60
Object Oriented Modeling & Design	2.60	2.49	2.58	2.58	2.60	1.90
Computer Algorithm	1.95	2.03	2.18	2.35	1.85	1.96
Internet of Things	2.80	2.80	2.80	2.80		
Java Programming	2.45	2.45	2.45	2.45	2.12	
Business English	1.20	1.20	1.20	1.20	1.20	
TY: SEM-II						
Compiler Construction	2.45	2.32	2.45	2.23	2.60	
Operating System II	2.84	2.79	2.79	2.45		
Database Engineering	2.78	2.40	2.55	2.90	2.89	2.56
Machine Learning	1.85	2.18	1.70	1.90		
E-Commerce & Digital Marketing	2.35	2.45	2.90	20.90		
C# Programming	2.59	2.59	2.59	2.59	1.90	
Domain Specific Mini Project	2.10	2.00	2.10	2.10		

Table 3.2.3: Attainment of COs for the A.Y:2021-22 (Third Year)

B Tech: SEM-I						
Subject	CO1	CO2	CO3	CO4	CO5	CO6
Advanced Computer Architecture	2.61	2.64	2.55	2.38	2.40	1.80
Artificial Intelligence	2.77	2.86	2.90	2.75		
Advance Database System	2.77	2.50	2.68	2.90	2.90	
Cloud Computing	2.78	2.78	2.78	2.78	2.78	2.78
Web Technology	3.00	3.00	2.90	3.00	2.64	
Internship	2.90	3.00	2.90	3.00	3.00	3.00
Project - I	2.90	2.90	2.90	2.90	2.90	
B Tech: SEM-II						
Big Data Analytics	1.97	1.49	1.49	1.49		
Natural Language Processing	2.70	2.82	2.70	2.64		
Deep Learning	2.65	2.82	2.70			
Block Chain Technology	2.63	2.62	2.90	2.75	2.85	2.55
Mobile Application Development	1.47	1.55	1.10	1.10		
Project - II	3.00	2.80	2.90	2.90		
Professional Skill	2.78	2.75	2.25	2.45		

Table 3.2.4: Attainment of COs for the A.Y:2021-22 (Fourth Year)

Attainment of Cos for the Batch (AY:2022-2023)

SY: SEM-I						
Subject	CO1	CO2	CO3	CO4	CO5	CO6
Applied Mathematics	2.39	2.80	3.00			
Discrete Mathematics &	2.55	2.55	2.78	2.78	2.55	2.55
Data Structure	2.87	2.10	2.10	1.55		
Computer Network I	2.72	1.70	2.00	2.39	2.45	2.23
Microprocessor	2.04	2.32	2.10	2.10	2.10	2.10
C Programming	2.33	2.33	2.33	2.00		
Soft Skill	2.55	2.55	2.55			
SY: SEM-II						
Automata Theory	2.64	2.81	3.00	3.00	3.00	-
Computer Network II	2.26	2.26	2.13	2.13	1.10	2.00
Computer Organization &	1.95	1.95	2.10	1.99	1.20	1.20
Operating System - I	2.38	2.05	2.60			
Software Engineering	2.10	2.19	2.22	2.17	1.90	
Object Oriented Programming	2.30	1.70	2.20	2.30		
Mini Project	3.00	2.19	2.22	2.17		
Environmental Studies	2.10	2.10	2.10	2.10		

Table 3.2.5: Attainment of COs for the A.Y:2022-23(Second Year)

TY: SEM-I						
Subject	CO1	CO2	CO3	CO4	CO5	CO6
Information Security	2.13	2.14	2.00			
System Programming	2.67	2.73	2.78	2.78	2.70	2.70
Object Oriented Modeling & Design	1.85	1.63	1.90	1.50	1.88	2.00
Computer Algorithm	2.05	1.98	1.99	2.01	2.22	2.08
Internet of Things	2.45	1.94	1.25	1.70		
Java Programming	2.45	2.45	2.45	2.45	2.12	
Business English	2.10	2.10	2.00	2.10	2.10	
TY: SEM-II						
Compiler Construction	2.45	2.43	2.13	1.68	2.20	
Operating System II	2.62	2.45	2.10	2.10	2.10	2.10
Database Engineering	2.82	2.82	2.78	2.78	2.70	2.70
Machine Learning	2.91	2.64	2.91	2.46		
E-Commerce & Digital Marketing	2.39	2.34	2.90	2.90		
C# Programming	2.59	2.59	2.59	2.59	1.90	
Domain Specific Mini Project	2.55	2.55	2.55	2.55		

Table 3.2.6: Attainment of COs for the A.Y: 2022-23 (Third Year)

B Tech: SEM-I						
Subject	CO1	CO2	CO3	CO4	CO5	CO6
Advanced Computer Architecture	2.21	2.33	2.33	2.33	2.10	2.10
Artificial Intelligence	1.95	2.00	2.00	2.00		
Advance Database System	2.47	2.47	2.58	2.58	2.60	
Cloud Computing	2.72	2.72	2.68	2.45	2.25	2.90
Web Technology	2.60	2.60	2.60	2.60	2.64	
Internship	2.10	2.10	2.10	2.10	2.10	2.10
Project – I	3.00	3.00	3.00	3.00	3.00	
B Tech: SEM-II						
Big Data Analytics	2.08	2.08	2.58	2.58		
Natural Language Processing	1.54	1.54	1.45	1.45		
Deep Learning	2.46	2.46	2.25			
Block Chain Technology	2.75	2.75	2.80	2.80	2.90	2.80
Mobile Application Development	2.00	1.90	1.90			
Project – II	2.90	2.90	3.00	3.00		
Professional Skill	3.00	3.00	3.00	3.00		

Table 3.2.7: Attainment of COs for the A.Y: 2022-23 (Fourth Year)

Attainment of Cos for the Batch (AY:2023-2024)

SY: SEM-I						
Subject	CO1	CO2	CO3	CO4	CO5	CO6
Applied Mathematics	2.77	2.70	2.77			
Discrete Mathematics & Structures	2.69	2.66	2.68	2.45	2.45	2.00
Data Structure	2.30	2.24	2.21	2.33		
Computer Network I	2.50	2.56	2.45	2.68	2.00	2.45
Microprocessor	2.68	2.67	2.80	2.77	2.62	2.68
C Programming	2.70	2.70	2.70	2.70		
Soft Skill	1.65	1.65	1.65			
SY: SEM-II						
Automata Theory	1.92	1.90	1.68	1.90	1.70	
Computer Network II	2.66	2.72	2.62	2.60	2.60	2.45
Computer Organization &	2.55	1.90	2.10	2.55	1.65	2.55
Operating System - I	2.57	2.70	2.52			
Software Engineering	2.40	2.19	2.22	2.17	1.90	
Object Oriented Programming	2.60	2.50	2.48	2.48		
Mini Project	3.00	2.19	2.22	2.17		
Environmental Studies	2.40	2.40	2.40	2.40		

Table 3.2.8: Attainment of COs for the A.Y:2023-24(Second Year)

TY: SEM-I						
Subject	CO1	CO2	CO3	CO4	CO5	CO6
Information Security	1.67	2.13	2.00			
System Programming	2.34	2.45	2.36	2.38	2.30	2.30
Object Oriented Modeling &	1.66	1.52	1.68	1.99	1.80	1.70
Computer Algorithm	2.19	2.30	2.45	2.30	2.22	2.17
Internet of Things	2.02	1.90	1.79	1.90		
Java Programming	2.45	2.45	2.45	2.45	2.45	
Business English	2.10	2.10	1.90	2.10	2.10	
TY: SEM-II						
Compiler Construction	2.90	2.90	2.51	2.52	2.81	
Operating System II	2.78	2.62	2.62	2.52	2.34	2.70
Database Engineering	2.62	2.53	2.73	2.78	2.55	2.64
Machine Learning	2.00	2.30	1.95	1.70	-	-
E-Commerce & Digital	2.38	2.95	2.90	2.90		
C# Programming	2.59	2.59	2.59	2.59	1.90	
Domain Specific Mini Project	1.00	1.00	1.23	1.23		

Table 3.2.9: Attainment of COs for the A.Y:2023-24 (Third Year)

B Tech: SEM-I						
Subject	CO1	CO2	CO3	CO4	CO5	CO6
Advanced Computer Architecture	2.79	2.76	2.78	2.55	2.70	2.40
Artificial Intelligence	2.37	2.45	2.00	2.90		
Advance Database System	2.08	2.62	1.90	2.68	2.60	
Cloud Computing	2.82	2.84	2.90	2.90	2.70	2.90
Web Technology	2.80	2.80	2.80	2.80	2.90	
Internship	1.20	1.20	1.20	1.20	1.20	1.10
Project - I	3.00	3.00	3.00	3.00	3.00	
B Tech: SEM-II						
Big Data Analytics	2.47	2.47	2.58	2.58		
Natural Language Processing	2.82	2.82	2.78	2.72		
Deep Learning	2.69	2.55	2.70			
Block Chain Technology	2.54	2.63	2.68	2.52	2.68	2.23
Mobile Application Development	2.10	2.00	1.90			
Project – II	3.00	2.90	2.90	2.90		
Professional Skill	2.00	2.00	2.00	2.90		

Table 3.2.10: Attainment of COs for the A.Y:2023-24 (Fourth Year)

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

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

Assessment of program outcomes (POs) and program-specific outcomes (PSOs) is an essential part of the evaluation and improvement of academic programs. In outcome-based education, program outcomes (POs) serve as a guide for curriculum design, delivery, and assessment of student learning.

To ensure alignment, a "design down" process is employed, where outcomes are cascaded from POs to Course Outcomes (COs) and outcomes for individual learning experiences. To connect POs with course content, course outcomes, and assessment, there is a need to bring further clarity and specificity to the program outcomes.

PO (Program Outcomes) and PSO (Program Specific Outcomes) assessment tools are used to evaluate the overall effectiveness of a program and to ensure that it meets the required standards.

There are various tools and techniques that can be used to assess POs and PSOs, some of which include:

Direct assessment tools (90%): These tools assess the attainment of POs/PSOs through internal and external assessment. Internal assessment tools include CIE, assignments, quiz, Tutorial/Assignments. External assessment tools include university theory exams, oral examination, practical oral examination, and project.

Indirect assessment tools (10%): These tools evaluate the effectiveness of the program in terms of student satisfaction, feedback, and perception. Indirect assessment tools include surveys. Program exit surveys are conducted with graduating students to evaluate the overall effectiveness of the program. Exit surveys can provide feedback on areas of strength and areas for improvement.
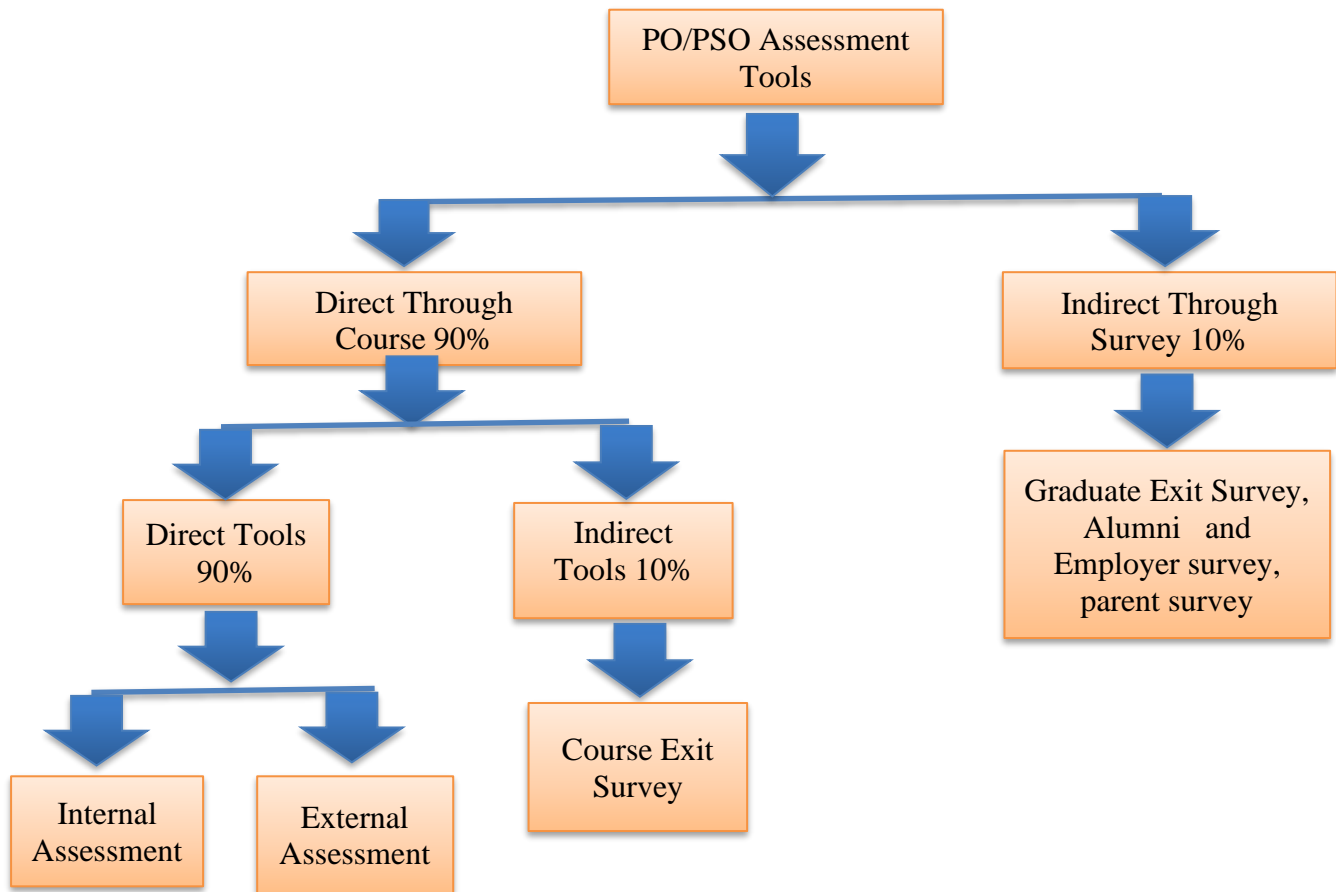
Figure 3.3.1: Assessment Tools and Weightage

3.3.2. Provide results of evaluation of each PO and PSO (40)

PO Direct Attainment (AY:2021-22)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO 8	PO9	PO 10	PO11	PO 12	PSO1	PSO2
C101	1.70	1.70	1.10	1.10					0.60	0.63				
C102	2.80	2.80	1.90											
C103	2.40	2.40	2.10	2.40						2.39				
C104	2.30	2.30				2.30	1.90	1.90	2.50		1.85	1.85		
C105	2.20	2.20	2.20	2.20										
C106					1.45				2.00	1.50	3.00	1.00		
II SEMESTER														
C107	2.40					2.40	2.60							
C108	2.80	2.80												
C109	2.80	2.80	1.90											
C110	2.40	1.50	1.50			1.80								
C111	2.10	2.10												
C112	2.60	2.60	2.75											

C113					1.90			2.00	2.00	1.45				
C114	2.40				2.40	2.60								
III SEMESTER														
C201	2.76	2.76	1.84											
C202	2.65	2.01	1.89	2.25									1.95	2.10
C203	2.58	2.15	2.52	2.52								1.72	1.72	2.30
C204	2.23	1.51	2.15	1.46	2.00	1.53	2.30					2.30		2.15
C205	2.45	2.25	1.85	2.55	1.90	2.35								
C206	2.60	2.40	2.00	1.80						1.70		2.30	2.50	1.95
C207								1.40	1.40	1.63		1.40		
IV SEMESTER														
C208	2.38	2.00	2.02	1.66	1.63									
C209	2.70	2.67	1.79	1.96	2.90	1.94						1.96		2.95
C210	2.75	2.92	2.60	1.79									2.69	2.75
C211	2.68	2.60	1.85	2.78									2.68	
C212	2.40	2.90	2.22	1.44	1.90			1.80						1.90
C213	2.00	1.60	2.00	2.00				1.30			1.30	1.30	2.00	1.30
C214	2.60	1.80	2.22	2.18	1.00			1.00	1.00		1.80	1.80	1.90	1.90
C215	1.29	1.66	1.29	1.11	1.48	1.85	2.22	2.03	1.85	1.48	1.11	2.03	1.66	1.85
V SEMESTER														
C301	2.45	2.90	2.90			0.90							1.75	
C302	1.74	1.77	2.64	1.73	1.40								2.33	2.19
C303	0.68	2.60	1.91	2.58	1.29								1.13	2.17
C304	1.92	2.55	1.80	2.10	1.70	1.68							1.65	2.15
C305	2.80	1.87	2.80	1.87	1.87	1.87	2.80		2.80		1.87	2.80		2.80
C306	2.20	2.20	2.45	1.66	2.45			2.45					1.80	1.70
C307								0.80	0.80	0.80		0.80		
VI SEMESTER														
C308	1.97	2.07	2.53	2.46	1.63			1.49					1.88	1.79
C309	2.80	2.80											1.80	2.90
C310	2.40	2.84	1.70	1.70	2.56	1.71							2.73	1.71
C311	1.76	2.15	1.65	1.85									2.55	1.98
C312	2.45	2.90	2.90	2.90	2.45	2.38							2.45	2.00
C313	1.93	2.90	2.50	1.80	2.40								2.30	2.19
C314	1.38	1.83	1.55	1.04	1.39	1.70	1.61	1.40	1.90	1.56	1.73	2.08	1.38	2.08
VII SEMESTER														
C401	2.40	2.22	2.28	1.73									2.11	1.80
C402	1.54	2.78	2.08	1.85	2.08	1.85							2.31	1.85
C403	1.67	2.73	2.79	1.89	1.93	1.93						1.93	2.48	2.22
C404	2.45	2.90	2.90	2.90	2.45	2.38							1.00	
C405	1.98	2.88	2.95	2.33	2.91								1.93	2.19
C406	1.93	1.93	1.93	1.93	1.93	1.93	2.18	1.93	2.18	1.93	2.26	1.93	1.93	1.93

Course														
C407	2.95	1.93	2.97	3.00	1.97	1.00		2.00	1.00	1.64	1.33	1.63	1.93	2.00
VIII SEMESTER														
C408	2.80	2.90	2.70	2.40	2.60								1.50	1.80
C409	2.82	2.65	2.76	1.78	1.82	1.88						1.77	2.67	2.82
C410	1.84	2.76	2.76	1.88	1.78	1.76						1.78	2.29	2.29
C411	2.34	2.07	1.73	2.85	1.45								1.80	2.07
C412	2.45	2.90	2.90	2.90	2.45	2.38							2.45	
C413	2.83	2.28	2.61	1.46	1.70	1.93	2.00	1.93	1.97	2.00	2.00	2.68	1.95	2.68
C414	2.25	2.32	1.95	2.22	2.35	1.90	1.92	1.98	2.40	2.38	2.45	1.85	1.98	2.69
	2.30	2.37	2.22	2.05	1.96	1.91	2.21	1.72	1.72	1.62	1.88	1.85	2.03	2.15
PO Attainment through Direct tool	2.07	2.14	2.00	1.84	1.76	1.72	1.99	1.54	1.55	1.46	1.69	1.66	1.83	1.94
PO Attainment through InDirect tool	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.50	2.50
Final PO Attainment	2.37	2.44	2.30	2.14	2.06	2.02	2.29	1.84	1.85	1.76	1.99	1.96	2.08	2.19

Table 3.3.2: Attainment of POs and PSOs for the AY 2021-22

PO Direct Attainment (AY:2022-23)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO 8	PO9	PO 10	PO11	PO 12	PSO1	PSO2
C101	2.19	2.19												
C102	2.76	2.76	1.84											
C103	2.47	2.47	2.19	2.47		2.47				2.47				
C104	2.50	2.43	2.00		1.90					1.90				
C105	2.20	2.20	2.20	2.20										
C106					1.35				1.90	2.35		0.96		
II SEMESTER														
C107	2.40					2.40	2.60							
C108	2.93	2.93	2.73	2.93		2.93				2.93				
C109	2.76	2.76	1.84											
C110	2.58	1.84	2.30			1.79								
C111	2.73	1.86	1.80	1.47		2.00	1.80	1.80	1.40	1.80	1.40	1.83		
C112	2.60	2.60	2.75											
C113					2.35			2.25	2.35	2.12				
C114	2.40					2.40	2.60							
III SEMESTER														
C201	2.76	2.76	1.84											

C202	2.55	2.55	2.78	2.66									1.07	0.90
C203	2.20	1.90	1.90	1.90								1.40	1.40	1.70
C204	2.14	1.51	2.34	1.52	2.45	1.49	2.23					2.23		2.34
C205	2.55	2.55	2.78	2.66	1.70	2.98								
C206	2.20	1.90	1.70	1.50						1.50		1.90	1.50	2.00
C207								1.70	1.70	1.98		1.70		
IV SEMESTER														
C208	3.00	2.80	3.00	2.25	1.70								2.67	2.45
C209	2.22	2.19	1.46	1.03	2.60	1.12						1.03		1.00
C210	1.95	1.95	2.02	1.35									2.02	1.95
C211	2.38	2.60	1.37	2.05									2.38	
C212	1.4	2.19	2.22	1.44	1.9									
C213	2.30	1.58	2.25	2.30						1.50		1.37	1.86	1.61
C214	2.1	1.46	2.22	2.17	1.1			1	1		1.7	1.8	1.9	1.8
C215	1.23	1.60	1.23	1.05	1.40	1.75	2.10	1.92	1.75	1.40	1.05	1.92	1.60	1.75
V SEMESTER														
C301	2.14	2.90	2.90			2.38							2.45	
C302	1.80	2.73	2.74	1.79	1.79								2.39	2.24
C303	0.60	1.85	1.85	1.50	1.69								1.40	1.63
C304	2.03	2.04	1.32	1.00	1.85	1.07							1.07	1.08
C305		2.55	2.78	2.66	1.70	2.98								
C306	2.04	2.04	2.45	1.66	2.45			2.45						
C307								1.40	1.37	1.40		1.38		
VI SEMESTER														
C308	1.78	1.91	2.43	2.16	1.42								1.64	1.62
C309	2.13	1.73											1.88	1.92
C310	2.82	2.80	1.85	1.80	2.70	1.80							2.78	1.80
C311	2.91	2.64	2.91	1.64	-	-							1.90	2.91
C312	2.45	2.90	2.90	2.45	2.38								2.45	
C313	1.93	2.59	2.59	1.9	1.9									
C314	1.70	2.27	1.91	1.28	1.70	2.13	1.98	1.70	2.34	1.91	2.13	2.55	1.70	2.55
VII SEMESTER														
C401	2.29	2.17	2.21	1.67									2.02	2.10
C402	1.76	2.64	2.02	1.78	2.07	1.87							2.24	1.74
C403	1.65	2.53	2.59	1.68	1.72	1.73						1.73	2.28	2.10
C404	2.45	2.90	2.90	2.90	2.45	2.38							1.00	
C405	1.73	2.61	2.60	2.02	2.61								1.74	2.04
C406	2.00	2.00	2.00	2.00	2.00	2.00	2.25	2.00	2.25	2.00	2.33	2.00	2.00	2.00
C407	2.10	1.40	2.10	2.10	1.40	0.70		1.40	0.70	1.17	0.93	1.17	1.40	1.40
VIII SEMESTER														
C408	1.90	2.58	2.41	1.72	1.72								1.73	2.41
C409	2.46	2.46	2.35	1.57	1.64	1.64						1.64	2.35	2.46

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO 8	PO9	PO 10	PO11	PO 12	PSO1	PSO2
C410	1.03	1.50	1.50	1.88	0.97	0.97						0.97	1.28	1.24
C411	2.33	2.75	2.32	2.90	1.40								1.86	2.15
C412	2.45	2.90	2.90	2.90	2.45	2.38							2.45	
C413	2.21	2.29	2.60	1.48	1.73	2.00	1.93	1.98	1.97	1.93	1.93	2.70	1.96	2.71
C414	2.60	2.52	2.30	2.90	2.00	3.00	2.80	3.00	3.00	1.95	1.90	3.00	2.80	2.55
	2.21	2.31	2.25	1.96	1.88	2.01	2.26	1.88	1.81	1.89	1.67	1.75	1.91	1.94
PO Attainment through Direct tool	1.99	2.08	2.02	1.76	1.70	1.81	2.03	1.69	1.63	1.71	1.50	1.58	1.72	1.74
PO Attainment through InDirect tool	2.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.00
Final PO Attainment	2.19	2.38	2.32	2.06	2.00	2.11	2.33	1.99	1.93	2.01	1.80	1.88	2.02	1.94

Table 3.3.3: Attainment of POs and PSOs for the AY 2022-23

PO Direct Attainment (AY:2023-24)

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO 8	PO9	PO 10	PO11	PO 12	PSO1	PSO2
C101	2.06	2.06							0.77	0.77		0.77		
C102	2.54	2.54	1.69											
C103	2.73	2.73	2.42	2.73						2.73				
C104	2.04	2.02	1.02		1.53					1.56				
C105	2.72	2.72	1.81											
C106					1.35				2.35	2.35		1.27		
II SEMESTER														
C107	2.40					2.40	2.60							
C108	2.69	2.69												
C109	2.54	2.54	1.69											
C110	2.11	2.11	2.85		2.17									
C111	2.87	2.75												
C112	2.30	1.80	2.30											
C113					2.35				2.35	2.25	2.35			
C114	2.40					2.40	2.60							
III SEMESTER														
C201	2.91	2.91	1.87											
C202	1.85	1.78	1.47	1.13									1.70	0.87
C203	2.27	1.76	2.26	2.26								1.51	1.51	2.00
C204	2.50	1.72	2.56	1.48	2.00	2.45	2.00					2.45		2.22

C205	2.65	2.72	2.73	2.80	1.74	1.34								
C206	2.70	2.40	2.10	1.80						1.80		2.40	1.80	2.40
C207							1.10	1.10	1.28			1.10		
IV SEMESTER														
C208	1.91	1.58	1.60	1.20	1.40								1.26	0.63
C209	2.60	2.66	1.76	1.68	2.60	1.75							1.68	1.22
C210	1.90	2.55	2.00	1.55									2.32	1.90
C211	2.57	2.52	1.80	2.70									2.57	
C212	1.4	2.19	2.22	1.44	1.9									
C213	2.60	2.08	2.48	2.48						1.65		1.66	2.09	2.09
C214	2.1	1.46	2.22	2.17	1.1		1	1		1.7	1.8	1.9	1.8	
C215	1.40	1.80	1.40	1.20	1.60	2.00	2.40	2.20	2.00	1.60	1.20	2.20	1.80	2.00
V SEMESTER														
C301	2.14	2.90	2.90			2.40							2.50	
C302	1.59	2.37	2.33	1.57	1.57								2.09	2.00
C303	0.58	1.66	1.67	1.99	1.90								1.31	1.56
C304	0.75	1.01	1.51	0.74	1.14	0.74							1.76	1.48
C305	1.95	1.23	1.95	1.26	1.19	1.26	1.78		1.78		1.91	1.90		1.90
C306	2.04	2.04	2.45	1.66	2.5		2.6							
C307							1.40	1.33	1.40			1.36		
VI SEMESTER														
C308	2.39	2.37	2.86	2.86	1.80								2.20	2.08
C309	2.46	2.01											2.17	2.24
C310	2.53	2.70	1.82	1.70	2.64	1.76							2.75	1.76
C311	1.64	2.47	1.91	1.15									1.70	2.09
C312	2.45	2.90	2.90	2.90	2.45	2.38							2.45	
C313	1.93	2.59	2.59	1.9	1.9									
C314	1.65	2.20	1.85	1.24	1.64	2.04	1.93	1.68	2.27	1.85	2.06	2.48	1.64	2.48
VII SEMESTER														
C401	2.66	2.47	2.61	1.97									2.35	2.40
C402	2.38	2.39	2.86	2.86	2.83	1.91							2.40	1.91
C403	1.75	1.99	2.25	1.59	1.79	1.76						1.73	1.96	2.20
C404	2.45	2.90	2.90	2.90	2.50	2.40							2.45	
C405	1.87	2.83	2.80	2.18	2.83								1.88	2.21
C406	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.25	2.00	2.33	2.00	2.00	2.00
C407	1.18	0.80	1.17	1.15	0.80	0.37		0.73	0.40	0.67	0.51	0.67	0.80	0.80
VIII SEMESTER														
C408	2.09	2.57	2.54	1.71	1.70								1.88	2.57
C409	2.55	2.69	2.62	1.80	1.75	1.70						1.79	2.69	2.55
C410	1.88	2.82	2.82	1.88	1.83	1.81						1.83	2.35	2.33
C411	2.16	2.00	1.58	2.68	2.23								2.32	2.00
C412	2.45	2.90	2.90	2.90	2.50	0.90							1.75	

C413	2.20	2.28	2.61	1.46	1.70	1.93	2.00	1.93	1.97	2.00	2.00	2.68	1.95	2.68
C414	1.29	1.66	1.29	1.11	1.48	1.85	2.22	2.03	1.85	1.48	1.11	2.03	1.66	1.85
	2.15	2.25	2.17	1.89	1.89	1.80	2.17	1.73	1.64	1.70	1.60	1.77	2.00	1.94
PO Attainment through Direct tool	1.93	2.03	1.95	1.70	1.70	1.62	1.95	1.56	1.48	1.53	1.44	1.59	1.80	1.75
PO Attainment through InDirect tool	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.50	2.50
Final PO Attainment	2.23	2.33	2.25	2.00	2.00	1.92	2.25	1.86	1.78	1.83	1.74	1.89	2.05	2.00

Table 3.3.4: Attainment of POs and PSOs for the AY 2023-24

CRITERIA 4

Student's

Performance

CRITERION 4	STUDENT'S PERFORMANCE	150

- **Student Admissions**

Items	CAY 2023-24	CAYm1 2022-23	CAYm2 2021-22	CAYm3 2020-21	CAYm4 (LYG) (2019-20)	CAYm5 (LYGm1) (2018-19)	CAYm6 (LYGm2) (2017-18)
Sanctioned Intake Strength in the program (N)	60	60	60	60	60	60	60
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)	60	60	60	54	54	59	52
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	6	6	6	12	11	7	17
Separate division students, if applicable (N3)	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total number of students admitted in the program (N1+N2+N3)	66	66	66	66	65	66	69

Table 4.1 Student Admissions

Year of entry	N1+N2+N3 (As defined above)	Number of students who have successfully graduated Without backlogs in any semester /year of study(Without Backlog means no compartment or failures in any semester / year of study)			
		I Year	II Year	III Year	IV Year
CAY (2023-24)	(60+0+0)	44			
CAYm1(2022-23)	(60+6+0)	12	16 (12+4)		
CAYm2 (2021-22)	(60+6+0)	60	39 (35+4)	36 (32+4)	
CAYm3 (2020-21)	(54+12+0)	52	64 (52+12)	60 (50+10)	60
(LYG) (2019-20)	(54+11+0)	32	41 (32+9)	41 (32+9)	40 (32+8)
(LYG m1) (2018-19)	(59+7+0)	44	51 (44+ 7)	51	51
(LYGm2) 2017-18	(52+17+0)	17	34 (17 +17)	34	34

Table 4.2 Number of students who have successfully graduated without backlogs in any semester/year of study

Year of entry	N1+N2+N3 (As defined above)	Number of students who have successfully graduated			
		I Year	II Year	III Year	IV Year
CAY (2023-24)	(60+0+0)	54			
CAYm1(2022-23)	(60+6+0)	43	47 (42+5)		
CAYm2 (2021-22)	(60+6+0)	60	60 (54+6)	56 (51+5)	
CAYm3 (2020-21)	(54+12+0)	54	66 (54+12)	66	66
(LYG)(2019-20)	(54+11+0)	54	65 (54+11)	65	65
(LYG m1)(2018-19)	(59+7+0)	59	59 (52+7)	s59	59
(LYGm2) 2017-18	(52+17+0)	39	56 (39+17)	56	56

Table 4.3 Number of students who have successfully graduated with backlogs

4.1 Enrolment Ratio (20)

Sl. No	Year	N	N1	Enrolment ratio (N1/N*100)	Marks Obtained
1	CAY(2023-24)	60	60	100	20
2	CAYm1(2022-23)	60	60	100	20
3	CAYm2 (2021-22)	60	60	100	20
Average				100	20

Table 4.1.1 Enrolment Ratio

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

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

Item	Latest Year of Graduation, LYG (2019-20:2022-23)	Latest Year of Graduation minus1, LYGm1 (2018-19:2021-22)	Latest Year of, Graduation minus2, LYGm2 (2017-18:2020-21)
Number of students admitted in the corresponding First Year + admitted in 2nd Year via lateral entry and separate division, if applicable	66	65	66

Number of students who have graduated without backlogs in the stipulated period	60	40	51
Success Index (SI)	0.90	0.61	0.77
Average SI	0.76		

Success rate without backlogs in any year of study = 25 ×0.76 = **19**

4.2.2. Success rate in stipulated period (15)

Item	Latest Year of Graduation, LYG (2019-20:2022-23)	Latest Year of Graduation minus1, LYGm1 (2018-19:2021-22)	Latest Year of, Graduation minus2, LYGm2 (2017-18:2020-21)
Number of students admitted in the corresponding First Year + admitted in 2nd Year via lateral entry and separate division, if applicable	66	65	66
Number of students who have graduated without backlogs in the stipulated period	66	65	59
Success Index (SI)	1	1	0.89
Average SI	0.96		

Success rate = 15 x 0.96 = **14.45**

4.3 Academic Performance in Third year (15)

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

Academic Performance	CAYm1 2022-23	CAYm2 2021-22	CAYm3 2020-21
Mean of CGPA or mean percentage of all successful students (X)	6.17	6.43	8.43
Total no. of successful students (Y)	56	66	65
Total no. of students appeared in the examination (Z)	60	66	65
API = X × (Y/Z)	5.75	6.43	8.43
Average API = (AP1+AP2+AP3)/3	6.87		

Academic performance = 1.5 × Average API (Academic performance Index)
= 1.5*6.87=10.31

4.4 Academic Performance in Second year (15)

Academic Performance	CAYm1 2022-23	CAYm2 2021-22	CAYm3 2020-21
Mean of CGPA or mean percentage of all successful students (X)	6.17	6.06	7.25

Total no. of successful students (Y)	47	60	66
Total no. of students appeared in the examination (Z)	49	66	66
API = X × (Y/Z)	5.41	5.50	5.39
Average API = (AP1+AP2+AP3)/3	5.43		

Academic performance = 1.5 × Average API (Academic performance Index)

$$= 1.5*5.43 = 8.15$$

4.5. Placement, Higher studies and Entrepreneurship (40)

Assessment Points = 40 × average placement

Item	CAY 2023-24	CAYm1 2022-23	CAYm2 2021-22	CAYm3 2020-21
Total No. of Final Year Students (N)	66	65	59	56
No. of students placed in companies or Government sector (X)	32	48	52	33
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent state or National Level Tests, GRE, GMAT etc.) (Y)	2	3	3	3
No. of students turned entrepreneur in engineering / technology (Z)	-	0	0	1
X+Y+Z=	34	50	55	37
Placement Index: (X+Y+Z)/N	0.48	0.78	0.93	0.66
Average placement = (P1+P2+P3)/3	**0.79**			
	0.73			

Assessment Points = 40 X Average placement = 40 X 0.79 = 31.60

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

Sr.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Kale Akash Vijay	2020081091	QSpiders Campus Connect	Tue 10/31/2023 3:34 PM
2	Chaitanya Suresh Dhang	2020080997	The Kiran Academy, Pune (Thundercube pvt ltd pune)	Date: 04/10/2023
3	Amey Sachin Kamat	2020081081	Cyber Success	Date: 19/10/2023

4	Harshad Madhukar Bujare	2020081089	Cyber Success	Date: 19/10/2023
5	Shreya Jaywant Thombare	2020081078	Palle Technologies	Fri 10/20/2023 3:00 PM
6	Avantika Dadasaheb pawar	2020079498	Palle Technologies	Fri 10/20/2023 3:00 PM
7	Khade Arati Gajanan	2020081106	The Kiran Academy, Pune (Thundercube pvt ltd pune)	Date: 04/10/2023
8	Milind Sanjaykumar Hodagepatil	2020081117	QSpiders Campus Connect	Tue 10/31/2023 3:34 PM
9	Akash Maruti Patil	2020081065	The Kiran Academy, Pune (Thundercube pvt ltd pune)	Date: 04/10/2023
10	Suyog Sunil Bawadekar	2020081114	The Kiran Academy, Pune (Thundercube pvt ltd pune)	Date: 04/10/2023
11	Vaishnavidevi Arvind Bhosale	2020081096	Palle Technologies	Fri 10/20/2023 3:00 PM
12	Mutalik Anushree Deepak	2020081017	QSpiders Campus Connect	Tue 10/31/2023 3:34 PM
13	Amruta Vijaykumar Patil	2020082152	Cyber Success	Date: 19/10/2023
14	Kundan Sudarshan Bhagat	2020081098	QSpiders Campus Connect	Tue 10/31/2023 3:34 PM
15	Rupesh Mahaveer Patil	2020081073	QSpiders Campus Connect	Tue 10/31/2023 3:34 PM
16	Reenal Chetan Shah	2020081088	The Kiran Academy, Pune (Thundercube pvt ltd pune)	Date: 04/10/2023
17	Deep Sachin Kamalakar	2020081110	Palle Technologies	Fri 10/20/2023 3:00 PM
18	Balaji Maruti Jare	2020081087	The Kiran Academy, Pune (Thundercube pvt ltd pune)	Date: 04/10/2023
19	Patil Aditi Ashok	2020081799	Cyber Success	Date: 19/10/2023
20	Bhakti Balavant Kulkarni	2020081082	The Kiran Academy, Pune (Thundercube pvt ltd pune)	Date: 04/10/2023
21	Pranav Garud	2020081162	Cyber Success	Date: 19/10/2023
22	Desai Shravani Baburao	2020082937	Cyber Success	Date: 19/10/2023
23	Pandey Abhishek Vijay	2020081366	Palle Technologies	Fri 10/20/2023 3:00 PM
24	Mallikarjun Mahadev Birajdar	2020081118	The Kiran Academy, Pune (Thundercube pvt ltd pune)	Date: 04/10/2023

25	Harshada Hanmant Patil	2020081104	The Kiran Academy, Pune (Thundercube pvt ltd pune)	Date: 04/10/2023
26	Tanmay Rhushikesh Patil	2020081099	Palle Technologies	Fri 10/20/2023 3:00 PM
27	Sujay Gavali	2020081085	QSpiders Campus Connect	Tue 10/31/2023 3:34 PM
28	Sudarshan Sanjay Patil	2021078411	Palle Technologies	Fri 10/20/2023 3:00 PM
29	Tanjila Jamir Shaikh	2021078413	The Kiran Academy, Pune (Thundercube pvt ltd pune	Date: 04/10/2023
30	Mane Nikita Satish	2021078415	Cyber Success	Date:19/10/2023
31	Shreya Raju Tambad	2021078418	Palle Technologies	Fri 10/20/2023 3:00 PM
32	Prasanna Chougule	2020081062	Cyber Success	Date:19/10/2023

Table 4.5.1 Placement Details for AY 2023-24

Sr.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Narute Kiran Rajindra	2019081371	Capgemini Technology Services India Limited	Email Dated 03.09.2023
2	Gidde Pranav Pradip	2019086697	KPIT Technologies Limited	Email Dated 17.09.2022
3	Bagwan Rija Kudartali	2019086741	KPIT Technologies Limited	Email Dated 23.08.2023
4	Lakhani Hasnain Rizwan	2019086747	Nihilent Limited	Email Dated 31.03.2023
5	Chandoba Harshal Rajgonda	2019086750	Acmegrade Pvt Ltd Pvt Ltd	Email Dated 23.3.2023
6	Malakar Bishal Benu	2019086754	Acmegrade Pvt Ltd Pvt Ltd	Email Dated 23.3.2023
7	Hogade Prem Subhash	2019086755	KPIT Technologies Limited	Email Dated 17.8.2022
8	Unde Abhishek Deelip	2019086758	TATA Consultancy Services Limited	Ref:TATA Consultancy Services LimitedL/CT20224007049/Pune
9	Shinde Harshwardhan Anandrao	2019086760	Nihilent Limited	Email Dated 31.3.2023
10	Shinde Tejas Adhik	2019086761	Nihilent Limited	Date: 31stJuly 2023
11	Kole Sourabh Bapuso	2019086762	TATA Consultancy Services Limited	Email Dated 21.9.2022
12	Jatrate,PratikRajendra	2019086763	Nihilent Limited Limited	Email Dated 31.7.2023

13	Jadhav PratikParashram	2019086764	Acmegrade Pvt Ltd	Email Dated 23.3.2023
14	Patil Jivan Ananda	2019086766	Capgemini Technology Services India Limited	Email Dated 9.3.2023
15	Bhanase Snehal Suryappa	2019086768	Chegg India Pvt. Ltd.	Email Dated 2.3.2023
16	DawareSaurabhShivaji	2019086769	KPIT Technologies Limited	Email Dated 17.9.2022
17	Jagdale Sakshi Balasaheb	2019086771	Nihilent Limited	Email Dated 31.7.2023
18	PatilIshaJayant	2019086772	Nihilent Limited	Email Dated 29.7.2023
19	Adgane Pournima Vidyasagar	2019086773	Acmegrade Pvt Ltd	Email Dated 23.3.2023
20	BhokareNishchayPradip	2019086774	TATA Consultancy Services Limited	Ref:TATA Consultancy Services Limited L/CT20224006615/Pune
21	Narute Manali Balasaheb	2019086776	Capgemini Technology Services India Limited	Email Dated 9.3.2023
22	Kesharwani Sourabh Shivkumar	2019086778	Chegg India Pvt. Ltd.	Email Dated 2.3.2023
23	Mahind Sonika Hanmantrao	2019087381	Chegg India Pvt. Ltd.	Email Dated 2.3.2023
24	Sawant Nutan Rajendra	2019087382	Chegg India Pvt. Ltd.	Email Dated 2.3.2023
25	Sawant Tanuja Shivaji	2019087383	Parentpay,Pune	Email Dated 12.12.2022
26	Kumbhar Aakanksha Bharat	2019087386	The Kiran Academy ,Pune.	Email Dated Thu 2.3.2023
27	Takale Purva Pandurang	2019087387	Chegg India Pvt. Ltd.	Email Dated 2.3.2023
28	Admuthe Vivek Sanjaykumar	2019087389	Nihilent Limited	Email Dated 31.7.2023
29	Kore Shraddha Rajendra	2019087392	TechMahindraLtd	Email Dated 15.11.2022
30	Kundale Siddhi Shrirang	2019087393	Capgemini Technology Services India Limited	Email Dated 9.3.2023
31	Patil Rutuja Vijay	2019087394	Nihilent Limited	Email Dated 1.8.2023
32	Patil Rutuja Uttam	2019087396	TATA Consultancy Services Limited	Email Dated 21.9.2022
33	Chavan Kshitija Sandip	2019087397	Nihilent Limited	Email Dated 1.8.2023

34	Patil Aditi Suresh	2019087399	Capgemini Technology Services India Limited	Email Dated 9.3.2023
35	Mohite Sonali Bhimrao	2019087400	Chegg India Pvt. Ltd.	Email Dated 2.3.2023
36	Dhok Komal Dewadas	2019087401	Nihilent Limited	Email Dated 1.8.2023
37	Patil Sakshi Anil	2019087402	Acmegrade Pvt Ltd	Email Dated 23.3.2023
38	Shaikh Joya Javed	2019087404	KPIT Technologies Limited	Email Dated 17.9.2022
39	Katekar Sankita Sunil	2019087405	TATA Consultancy Services Limited	Email Dated 30.9.2022
40	Gavali Pratiksha Popat	2019087419	Chegg India Pvt. Ltd.	Email Dated 2.3.2023
41	Patil Rushikesh Krishna	2019087495	Nihilent Limited	Email Dated 31.7.2023
42	Powar Pramod Vijay	2019088868	Chegg India Pvt. Ltd.	Email Dated 2.3.2023
43	Bamnale Priyanka Mahadev	2020079167	Acmegrade Pvt Ltd	Email Dated 23.3.2023
44	Patil Snehal Shivshant	2020079209	Nihilent Limited	Email Dated 31.7.2023
45	Patil Aishwarya Ashok	2020080692	Qspiders Campus Connect	Email Dated 18.11.2022
46	Bhosale Radhika Raosaheb	2020080696	Geny Soft Tech Solutions	Email Dated 4.9.2023
47	Wani Kranti Ajit	2020080697	Chegg India Pvt. Ltd.	Email Dated 2.3.2023
48	Bhosale Ruchita Uddhav	2020080706	TATA Consultancy Services Limited	Email Dated 30.9.2022

Table 4.5.2 Placement Details for AY 2022-23

Sr.No	Student Name	Enrollment No	Employee Name	Appointment No
1	Patil Sharvari Vilas	2018089409	Capgemini Technology Services India Limited	Email dated 15.11.2021
2	Patil Aakanksha Popat	2018091516	ICICISecurities Ltd.	Email dated 15.2.2022
3	Adesh Ganpati Medhe	2018089383	Capgemini Technology Services India Limited	Superset ID:1269502
4	Khedkar Bahar Shirish	2019088405	Capgemini Technology Services India Limited	Superset ID:1284848
5	Kale Apoorva Milind	2018089400	Wipro Limited Limited	Email dated 23.1.2022
6	Samruddhi Prashant Patil	2018089414	TATA Consultancy Services Limited	Ref:TATA Consultancy Services LimitedL/CT20213763200/Pune

7	Amit Shivaji Todakar	2018091521	Persistent Systems	Email dated 30.1.2022
8	Vaidehi Vaibhav Mhaiskar	2018089398	Wipro Limited	Email dated 23.1.2022
9	Suryawanshi Neha Jaywant	2018089379	Nihilent Ltd.	Email dated 5.4.2022
10	Shirote Sammed Babaso	2018089368	Qspiders Campus Connect	Email dated 8.12.2021
11	Srushti Sambhaji Shiudkar	2018089397	Capgemini Technology Services India Limited	Superset ID:1275484
12	Goutam Pooja Chhansing	2018089419	Infosys Limited	Email dated 19.08.2022
13	Konduskar Rohit Ravindra	2018089395	Acty System India Pvt. Ltd.	Email dated 13.10.2021
14	Omkar Yashwant Bujare	2018089385	Wipro Limited	Email dated 17.1.2022
15	Ghuge Pavan Panditrao	2018089369	Infosys Limited	Email dated 30.6.2022
16	Jalpure Monika Savakar	2018089457	Hexaware Technologies Ltd.	Email dated 14.1.2022
17	Patil Murgesh Mahesh	2018089416	ALarsen &Toubro Group Company	Email dated 20.2.2022
18	Mane Kajal Khandu	2018089378	Capgemini Technology Services India Limited	Superset ID:1277573
19	Patil Harshal Satish	2018089408	Vodaphone	Email dated 17.10.2022
20	Akshata Atul Babar	2018089370	Nihilent Ltd.	Email dated 5.4.2022
21	Kajal Bandu Jadhav	2018089381	Infosys Limited	Email dated 19.8.2022
22	Shreya Shekhar Koulage	2019088404	Capgemini Technology Services India Limited	Superset ID:1303656
23	Ashwini Sanjay Teli	2019088401	TATA Consultancy Services Limited	Ref:TATA Consultancy Services LimitedL/DT20218343134/Pune
24	Khorate Rushikesh Rajendra	2018089411	Quantiphi Analytics Solution Private Limited	Email dated 19.9.2022
25	Amanul Rahiman Shamshuddin Attar	2018089375	Wipro Limited	Email dated 21.1.2022
26	Magadum Pournima Sanjay	2018089376	TATA Consultancy Services Limited	Ref:TATA Consultancy Services LimitedL/CT20213746190/Pune
27	Choudhary Mahima Mahavir	2018089407	Wipro Limited	Email dated 27.1.2022
28	Deshpande Manasi Shirish	2018089425	Jade Global Software Pvt. Ltd	Email dated 8.8.2022
29	Kharade Nikita Manik	2018089401	Wipro Limited	Email dated 7.3.2022
30	Patil Nilesh Narayan	2018089365	Wipro Limited	Email dated 22.1.2022
31	Kotwal Nitin Gajanan	2018089372	Revature Consultancy Services Private Ltd	Email dated 30.12.2021

32	Kamble Sanket Shivaji	2018089388	Quantiphi Analytics Solution Private Limited	Email dated 10.11.2022
33	Mali Yuvraj Uttam	2018089394	KPIT Technologies Limited	Email dated 17.6.2022
34	Shubham P Patil	2018089402	Great Software Laboratory Pvt.Ltd.	Email dated 22.5.2022
35	Rushikesh Mahavir Kamble	2019088406	Infosys Limited	Email dated 19.9.2022
36	Minchekar Veda Sandeep	2018089382	Amdocs Development Centre India LLP.	Email dated 19.7.2022
37	Hrishikesh Gharge	2018089391	Wipro Limited	Email dated 21.1.2022
38	Kapase Omkar Pandurang	2018089461	Infosys Limited	Email dated 19.8.2022
39	Gavade Akshata Shivaji	2018089371	Infosys Limited	Email dated 19.8.2022
40	Bhagyashree Raju Kamble.	2018089454	Infosys Limited	Email dated 30.6.2022
41	Akil Bandgar	2018089384	Nihilent Ltd.	Email dated 5.4.2022
42	Prasenjeet Satish Gangawane	2018089421	Wipro Limited	Email dated 21.1.2022
43	Sejal Satish Jakanur	2018089521	Wipro Limited	Email dated 22.1.2022
44	Sayyad Rahuf Shoukatali	2018089426	TATA Consultancy Services Limited	Email dated 14.10.2021
45	Veturlekar Swarupa Gajanan	2019088400	Nihilent Ltd.	Email dated 5.4.2022
46	Dalvi Prasanna Vilas	2018089387	Qspiders Campus Connect	Email dated 8.12.2021
47	Bargir Namira Shakil	2018089377	TATA Consultancy Services Limited	Email dated 16.10.2021
48	Malikwade Viraj Sanjay	2018089413	Capgemini Technology Services India Limited	Superset ID:1277573
49	Jamadar Kayyum Alamgir	2018089405	KPIT Technologies Limited	Email dated 17.6.2022
50	Muskan Mustak Mujawar	2019088398	Infosys Limited	Email dated 19.8.2022
51	Ketkale Shradha Balasaheb	2019088396	DKTE YCP, Ichalkaranji	Joining Date:-June2023
52	Ayush Kamble	218089455	Qualitas Global,Pune	Emplyee ID :-1818

Table 4.5.3 Placement Details for AY 2021-22

4.6 Professional Activities (20)

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

Computer Society of India (CSI) I is a non-profit professional body to exchange views, information and share ideas. Society also encourages and assists professionals to maintain integrity and competence of the profession. Facilitate Research, Knowledge Sharing, Learning and Career Enhancement among all categories of IT professionals.

The Indian Society for Technical Education (ISTE) is the leading National Professional non-profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System.

Sr. No.	Topic	Resource Person	Date Conducted	Audience
1	Guest Lecture on "Curent Trends in AI& ML ".	Mr. Aditya Magdum	26/07/2023	TY CSE
2	Guest Lecture on " ChatGPT"	Mr. Abhay Chougule	18/08/2023	TY & BTech CSE
3	Teachers Day Celebration.	COMPESA & CSI Activity	05/09/2023	TY & BTech CSE
4	Engineer's Day Celebration.	COMPESA & CSI Activity	15/09/2023	TY & BTech CSE
5	TECHSOFT-2K23 (Aptitude Test & Interview)	COMPESA & CSI Activity	15/09/2023	TY & BTech CSE
6	Expert Lecture on "Project life cycle and project management".	Mr. Satish Sitaram Bharatiya Speridian Technology pvt.ltd.	16/09/2023	BTech CSE
7	Guest Lecture on " AI in Digital Marketing"	Mr. Akshay Pujari Founder Shivam Creations Miraj	26/09/2023	SY CSE
8	Guest Lecture on "Research Attachment Program at Malaysia".	Dr. U.B. Deshnnavar,Advisor DrJJMCOE,Jsp	04/10/2023	TY CSE
9	COMPESA Inauguration	COMPESA & CSI Activity	13/10/2023	TY & BTech CSE
10	IOT Project Exhibition.	COMPESA & CSI Activity	27/10/2023	TY & BTech CSE

11	Expert Lecture on " Pointer & Structure Implementation in C".	Prof. S. S. Satpute Kashibai Navale College of Engineering. Pune	27/10/2023	SY CSE
12	Mahaparinirvan Din.	COMPESA & CSI Activity	06/12/2023	TY & BTech CSE
13	"Winter Crash 2K24" Technical & Non Technical event.	COMPESA & CSI Activity	03/02/2024	TY & BTech CSE
14	Inauguration of "Google Developer Student Club."	COMPESA & CSI Activity	03/02/2024	TY & BTech CSE
15	Expert Lecture on " Real Life Applications of NLP"	Dr. P. J. Kulkarni Professor RIT Islampur	14/02/2024	BTech CSE

Table 4.6.1 Activities for the Academic Year 2023-24

Fig. 4.6.1 Expert Lecture on "Project life cycle and project management". Mr. Satish Sitaram Bharatiya on 16/09/2023

Fig. 4.6.2 Guest Lecture on " ChatGPT" on 18/08/2023

Sr.No.	Topic	Resource Person	Date Conducted	Audience
1	Guest lecture Trends of latest Technologies in IT	Mr. Nilesh Takale, ITnium Sangli	03/10/2022	TY
2	Guest lecture Computer Hardware and Networking	Mr.Akshay Mane, AM Computers Shirol	07/11/2022	SY
3	Quiz Competition	COMPESA & CSI Activity	09/11/2022	SY,TY,B.Tech
4	Inauguration of Coding Club	COMPESA & CSI Activity	10/11/2022	SY,TY,B.Tech
5	Expert lecture on Cyber Crime	Mr ,Vishwajit Patil , Cyber Expert at Maharashtra Cyber Mumbai	25/11/2022	SY,TY,B.Tech
6	Inauguration of COMPESA	COMPESA & CSI Activity	25/11/2022	SY,TY,B.Tech
7	One Day Workshop on Recent Trends in Cloud Computing	Mr. Amar Kalvikatte, Tech Lead AVIATRIX Netharlands	20/12/2022	TY,B.Tech
8	One Day Workshop on Amazon Web Services (AWS)	Mr.Shailesh H. Dinde	21/03/2023	TY,B.Tech
9	Guest Lecture on Introduction to Python	Mr.Vaibhav Sutar Director, Vishwa Technologies, Kolhapur.	27/03/2023	SY
10	Expert lecture on Full stack Development & AWS Cloud	Mr. Nilesh Takale ITnium Sangli	18/04/2023	TY
11	Guest lecture Recent trends in IT	Mr. Sourabh Deotale, CEO Acuratech Pvt.Ltd, Pune.	21/04/2023	TY & B.Tech

| 12 | Guest lecture Data Analytics & Text Analytics in Data Science | Mr. Y. L. Hakim A Corporate Trainer : Python , Data Science , ML & AI | 25/04/2023 | TY & B.Tech |
| 13 | National Level Event " ASHWAMEDH 2K23" | COMPESA & CSI Activity | 20/05/2023 | SY,TY,B.Tech |

Table 4.6.2 Activities for the Academic Year 2022-23
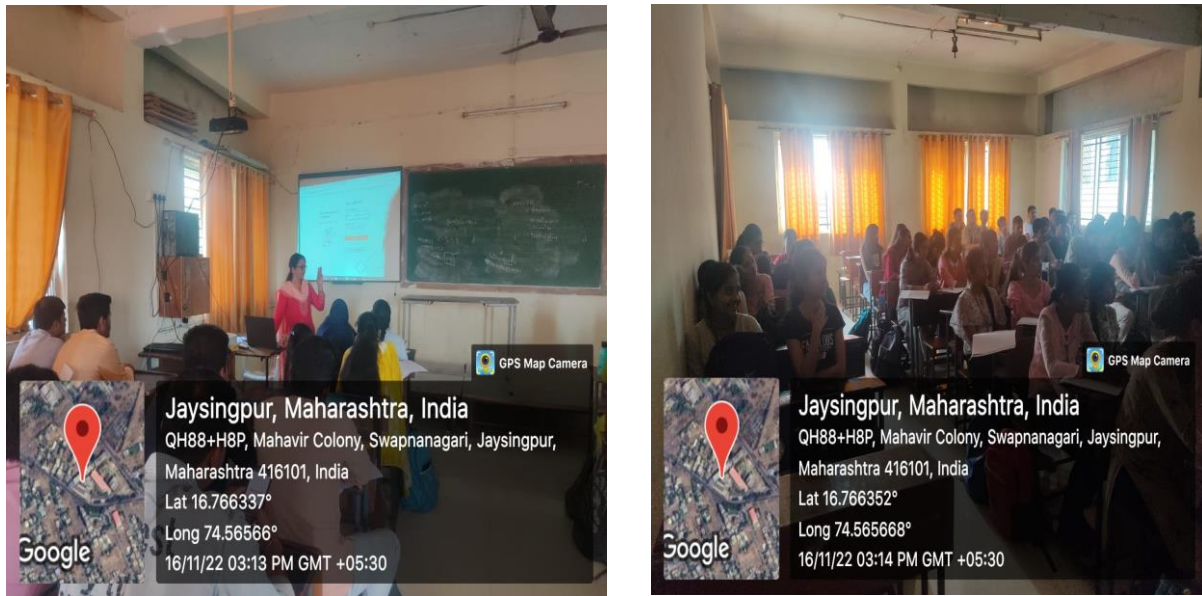
Fig. 4.6.3 Expert lecture on AWS Cloud conducted on 16/11/2022
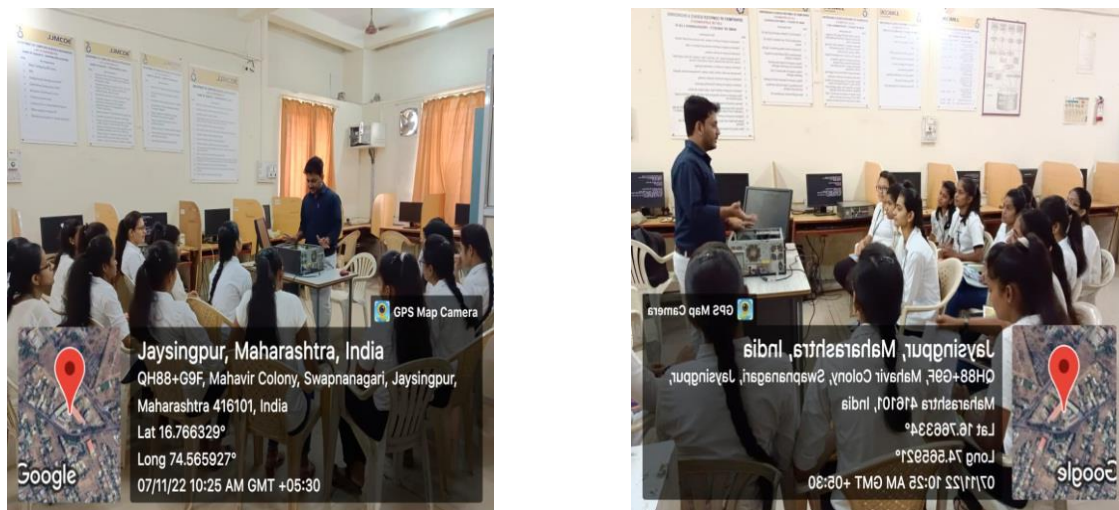
Fig. 4.6.4 Guest lecture on Computer Hardware and Networking conducted on 07/11/2022

Sr.No	Topic	Resource Person	Date Conducted	Audience
1	Guest Lecture on AWS Cloud	Mr. NileshTakale	21/10/2021	B.Tech
2	Guest Lecture on Computer Hardware and Networking	Mr.Akshay Mane	29/10/2021	SY
3	Guest Lecture on Ways to work or prepare for Campus Drive	Mr. AkshayRunval	25/11/2021	TY & B.Tech.
4	Guest Lecture on Opportunities in Abroad after Engineering	Mr. Rahul Gujar	26/11/2021	SY, TY & B.Tech.
5	Workshop on Python & its Libraries	Mr. Hrishekesh Gharge	26/11/2021	BE CSE
6	Workshop on App Inventor	Mr. Rohit S Barwade	03/12/2021, 04/12/2021	SY & TY
7	Guest Lecture on Corporate View after B. Tech.	Mr. Samki tKhot	17/12/2021	B.Tech .
8	Guest Lecture on Awareness of NPTEL courses and registration process	Mr.Surendra Ravindra Patil	20/12/2021-21/12/2021	SY,TY,B.Tech
9	Guest Lecture on Opportunities After BE	Mr. Rahul Gujar	23/12/2021	SY, TY & B. Tech.
10	Guest Lecture on Growing need for specialization: Technical and Techno management options in India and abroad	Mrs.Pallavi Desai	15/1/2022	B.Tech
11	Guest Lecture on Artificial Intelligence & Applications	Mr. A.B.Chougule	12/05/02022	SY,TY CSE
12	Practical approach to Computer Networks	Prof. Sharwari Satish Solapure	28/06/2022	S.Y. CSE
13	Study of basic services and multimedia protocols in Internet	Prof. Nandinee Mudegol	30/06/2022-01/07/2022	S.Y. CSE

Table 4.6.3 Activities for the Academic Year 2021-22

Fig. 4.6.5 Guest Lecture on Computer Hardware and Networking on 29/10/2021

Fig. 4.6.5 Guest Lecture on Ways to work or prepare for Campus Drive on 25/11/2021

4.6.2. Publication of technical magazines, Newsletters etc.

DEPARTMENT NEWSLETTER

Patron	:	Dr. Mrs. Shubhangi B. Patil
		Principal, Dr.J J Magdum college of Engineering.
		Jaysingpur.
Editor-in-Chief	:	Dr. Mrs. Dipali A. Nikam
		HOD, Department of Computer Science and
		Engineering
Editor		Asst. Prof. N.H. Sayyad.
Faculty Advisors	:	Asst. Prof. Gundavade .
		Asst. Prof. S.A. Narde.
		Asst. Prof. P.V. Kothawale
Student Editorial Board	:	Ms. Awale Rutuja Ravsaheb
		Mr. Godse Prathmesh Sadashiv
		Mr. Aryan B Chougule
		Mr. Patil Ritesh Shivaji
		Ms. Mohite Sanika Balu

Fig. 4.6.6 News letter Academic Year 2023-24
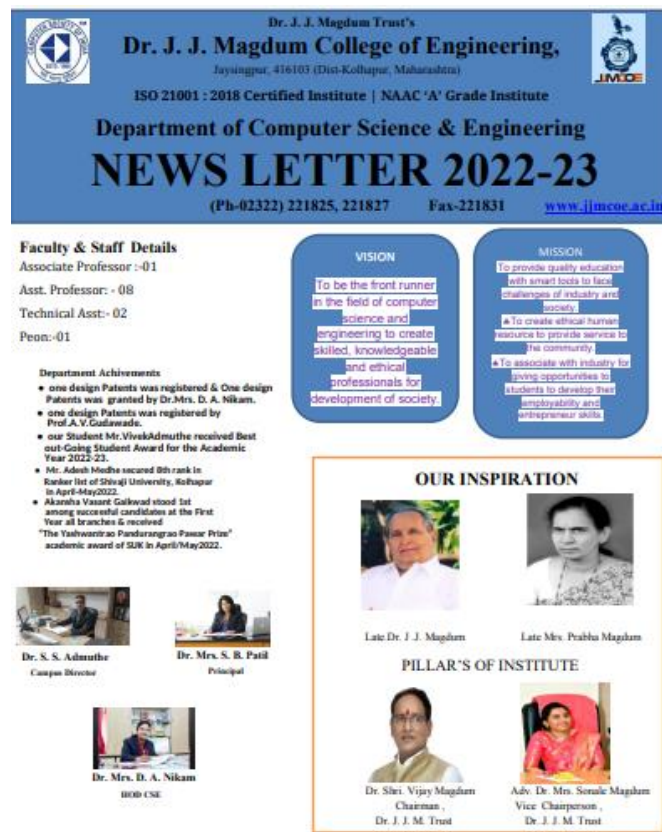
Fig. 4.6.7 News letter Academic Year 2022-23

Fig. 4.6.8 News letter Academic Year 2021-22

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

Participation of students in various inter-institute events is listed in Tables 4.6.4, 4.6.5, and 4.6.6 for the academic years 2023-24, 2022-23, and 2021-22 respectively.

Sr. No	Name of Students	College Name	Event	Date	Status
1	Aryan Gajanan Shinde	Hirasugar Institute of Technology,Nidasoshi.	Tecnovision	02/04/24	First Rank
2	Sahil Chandrakant Sutar	Hirasugar Institute of Technology,Nidasoshi.	Tecnovision	02/04/24	First Rank
3	Muddassir Momin	National level Online Art Competition	Creative designs 2k24	20/6/2024	Second Rank
4	Aryan Gajanan Shinde	Shard Institute of technology college of engineeing	IMPETUS- The National Level Event.	10/12/2023	Second Rank
5	Siddhi Shankar Mane	Dr.Ashok Gujar Technical Institute.Dr.Daulatrao Aher College of Engineering.Karad	Spectrum 2k24(Project Competition)	19/3/2024	Second Rank

6	Vishal Bhairavnath Dhaygude	Padmabhooshan Vasantraodada Patil Institute of Technology,Sangli (Budh gaon)	Brain it on 2.O	15/02/2024	Third Rank,
7	Sainath Atul Karawade	Padmabhooshan Vasantraodada Patil Institute of Technology,Sangli (Budh gaon)	Brain it on	15/02/2024	Third Rank
8	Muddassir Momin	Rajarambapu Institute of Technology	Ideathon	21/03/2024	Participated
9	Aryan Gajanan Shinde	Padmabhooshan Vasantraodada Patil Institute of Technology,Sangli (Budh gaon)	Brain It On-The National Level Event.	16/02/2024	Participated
11	Aryan Gajanan Shinde	Techno Bharti 2024	Project Expo	28/03/2024	Participated
12	Anisha Kuber Patil	Sanjeevan Engineering and Technology Institute, Panhala	Parikrama	28/03/2024	Participated
13	Vishal Bhairavnath Dhaygude	Bharati vidyapeeths college of engineering, kolhapur	TECHNO BHARATI 2024, project expo	28/02/2024	Participated
14	Vishal Bhairavnath Dhaygude	D Y Patil college of engineering, Kolhapur	TECHNOTSAV-2024, industrial ideathon	12/2/2024	Participated
15	Tanushree Sharad Shinde	Walchand college of engineering,sangli	Technocart'23 2.0	28/8/2023	Participated
16	Misba Moula Nadaf	Walchand College of engineering, sangli	LUMINOSPARK	29/12/2024	Participated
17	Tanushree Sharad Shinde	Shivaji UniversiTY CSE, Kolhapur	National service scheme	8/6/2024	Participated
18	Siddhi Shankar Mane	SANJEEVAN Engineering & Technology Institute,Panhala	Parikrama 2k24(Project Competition)	28 /3/2024	Participated
19	Siddhi Shankar Mane	Dr.Daulatrao Aher College of Engineering Karad	Spectrum 2k24	19/3/2024	Participated
20	Aditi Ganesh Dhavale	Sanjeevan Engineering and Technology Institute, Panhala	Parikrama 2K24(C codigo)	28/3/2024	Participated

21	Siddhi Shankar Mane	Sanjeevan Engineering & Technology Institute Panhala	PARIKRAMA 2024	28/3/2024	Participated
22	Shweta Suresh Chindage	Sanjeevan Engineering & Technology Institute, Panhala	C-codigo	28/3/2024	Participated
23	Shweta Suresh Chindage	Sanjeevan Engineering & Technology Institute, Panhala	Project Competition	28/3/2024	Participated
24	Rutuja Ankush Sawant	Walachand college of engineering sangil	Teasurhunt	29/10/2023	Participated
25	Rutuja Ankush sawant	Shard Institute of technology college of engineeing	Paper presentation	12/10/2023	Participated

Table 4.6.4: Participation in inter-institute technical events by the students in 2023-24

Sr. No.	Name of Student	College Name	Event Name	Date	Status
1	Pratiksha Gavali Neha Chavan Hasnain Lakhani Bishal Malakar	Sharad Institute of Technology , Yadrav	"INOVATION 2K23" National Level Technical Event	21-Mar-23	Participated
2	Snehal Shivshant Patil Vivek Sanjaykumar Admuthe Rushikesh Krishna Patil Nischay Pradip Bhokare	Dr. Doulatrao Aher College of Engineering, Karad	"Spectrum 2K23" Under Lead College SUK	21-Mar-23	Winner
3	Sanmay Anil Majlekar Prem Subhash Hogade Sourabh Shivkumar Kesharwani Vishwjeet Vijay Powar	Dr. Doulatrao Aher College of Engineering, Karad	"Spectrum 2K23" Under Lead College SUK	21-Mar-23	Participated
4	Mahesh Siddhu Dhangar Aniket Govind Todkar Pratik Rajendra Jatrate Sourabh Bapuso Kole	Dr. Doulatrao Aher College of Engineering, Karad	"Spectrum 2K23" Under Lead College SUK	21-Mar-23	Participated
5	Shraddha Rajendra Kore Sonika Hanmantrao Mahind Takshak Vikram Desai Komal Dewadas Dhok	Dr. Doulatrao Aher College of Engineering, Karad	"Spectrum 2K23" Under Lead College SUK	21-Mar-23	Participated
6	Manali Balasaheb Narute Sakshi Anil Patil Karan Pandurang Kumbhar Rija Kudartali Bagwan	Sharad Institute of Technology , Yadrav	"INOVATION 2K23" National Level Technical Event	1-Apr-23	Participated

7	Harshwardhan Shinde	Dr. Doulatrao Aher College of Engineering, Karad	"Spectrum 2K23" Under Lead College SUK	21-Mar-23	Participated
	Siddharth Ashok Khubikar				
	Abhishek Deelip Unde				
	Shreyas Haridas Shirke				
8	Priyanka Uttam Yedage	Sharad Institute of Technology , Yadrav	"INOVATION 2K23" National Level Technical Event	1-Apr-23	Participated
	Uttara Uday Repe				
	Rutuja Uttam Patil				
	Utture omkar anil				
9	Sadiya Ramjan Nadaf	Dr. Doulatrao Aher College of Engineering, Karad	"Spectrum 2K23" Under Lead College SUK	21-Mar-23	Participated
	Rutuja Tanaji Kamble				
	Dhanashri Nilkanthrao Ghatage				
	Pratiksha Rajendra Jangam				
	Vivek Sanjaykumar Admuthe				
	Rushikesh Krishna Patil				
	Nischay Pradip Bhokare				

Table 4.6.5: Participation in inter-institute project competitions by the students in 2022-23

Fig. 4.6.9 Sample Student Certificates of Participation in Project Competitions 2022-23

Sr. No	Name of Students	College Name	Event	Date	Status
1	Mallikarjun Birazdar	KLE .Dr.M.S.Sheshgiri college of Engineerin	Mini Project Exhibition	22/3/2022	Second Rank

		g and Technology ,Belgum			
3	Sujay Gavali	Sanjay Ghodawat University	International Workshop	28/12/2022 to 29/12/2022	Participated
4	Tanmay Patil	Sanjay Ghodawat University	International Workshop	28/12/2022 to 29/12/2022	Participated
5	Sahil Sutar	Sanjay Ghodawat University	International Workshop	28/12/2022 to 29/12/2022	Participated
6	Misba Nadaf	Ashokrao Mane College Vathar	REFLEX 2K22	4/6/2022	Participated
8	Sahil Sutar	Walchand College	ELECTOVERT 2K22	26/11/2022 to 27/11/2022	Participated
9	Amey Kamat	COE Vizianagram	National Level CODETHON		1 st Rank
10	Somesh Pargave	Walchand College	ELECTOVERT 2K22	26/11/2022 to 27/11/2022	Participated
11	Amey Kamat	Walchand College	ELECTOVERT 2K22	26/11/2022 to 27/11/2022	Participated
12	Pramod Pawar	ADCET Ashta	World Health Day		Participated
13	Bhakti Kulkarni	Walchand College	ELECTOVERT 2K22	26/11/2022 to 27/11/2022	Participated
14	Deep Kamalakar	Walchand College	ELECTOVERT 2K22	26/11/2022 to 27/11/2022	Participated
18	Prathamesh Kumbhar	Walchand College	ELECTOVERT 2K22	26/11/2022 to 27/11/2022	Participated
19	Aman Sutar	Walchand College	ELECTOVERT 2K22	26/11/2022 to 27/11/2022	Participated
21	Chaitanya Dhang	Walchand College	ELECTOVERT 2K22	26/11/2022 to 27/11/2022	Participated
22	Sahil Sutar	Bharati Vidyapith Kolhapur	TECHNOBHARA TI 2K23	2-Mar-23	First Prize Winner
23	Pranav Garud	Bharati Vidyapith Kolhapur	TECHNOBHARA TI 2K23	2-Mar-23	First Prize Winner
24	Aryan Shinde	Bharati Vidyapith Kolhapur	TECHNOBHARA TI 2K23	2-Mar-23	First Prize Winner
25	Aryan Shinde	Bharati Vidyapith Kolhapur	TECHNOBHARA TI 2K23	2-Mar-23	Third Prize Winner

28	Sahil Sutar	Bharati Vidyapeeth's College of Engineering	Techno Bharti	28/02/2023	1st Prize
29	Pranav Garud	Bharati Vidyapeeth's College of Engineering	Techno Bharti	28/02/2023	1st Prize
30	Aryan Shinde	Bharati Vidyapeeth's College of Engineering	Techno Bharti	28/02/2023	3rd Prize
31	Aryan Shinde	Bharati Vidyapeeth's College of Engineering	Techno Bharti	28/02/2023	1st Prize

Table 4.6.6: Participation in inter-institute technical events by the students in 2022-23

Fig. 4.6.10 Student Participation in Technical Events

Sr. No	Name of Student	College Name	Event	Date	Status
1	Balaji Jare	VSM'S Institute of Technolohgy,Nipani	Quizzlers	16/02/2021	Second Rank
2	Azhar Gadad	Dr. J. J. Magdum College of Engineering, Jaysingpur	Technical Workshop	03/12/2021 to 04/12/2021	Participated
3	Vaishnavdevi Bhosale	Gov of India	PMGDISA	Jan-22	Participated
4	Pramod Pawar	Dr. J. J. Magdum College of Engineering, Jaysingpur	TECHUTSAV 2K21	12/3/2021	Participated
5	Pratiksha Edake	Dr. J. J. Magdum College of Engineering, Jaysingpur	CodeTech2K22	12/2/2022	Participated
6	Pratiksha Edake	Dr. J. J. Magdum College of Engineering, Jaysingpur	Technical Workshop	03/12/2021 to 04/12/2021	Participated
7	Akash Kale	Dr. J. J. Magdum College of Engineering, Jaysingpur	Technical Workshop	03/12/2021 to 04/12/2021	Participated

8	Akash Kale	Dr. J. J. Magdum College of Engineering, Jaysingpur	CodeTech2K22	12/2/2022	Participated
9	Madhuri Shinde	Dr. J. J. Magdum College of Engineering, Jaysingpur	CodeTech2K22	12/2/2022	Participated
10	Madhuri Shinde	Dr. J. J. Magdum College of Engineering, Jaysingpur	Technical Workshop	03/12/2021 to 04/12/2021	Participated
11	Vaishnavdevi Bhosale	Dr. J. J. Magdum College of Engineering, Jaysingpur	CodeTech2K22	12/2/2022	Participated

Table 4.6.6: Participation in inter-institute technical events by the students in 2021-22

Fig. 4.6.11 Student Participation in NSS
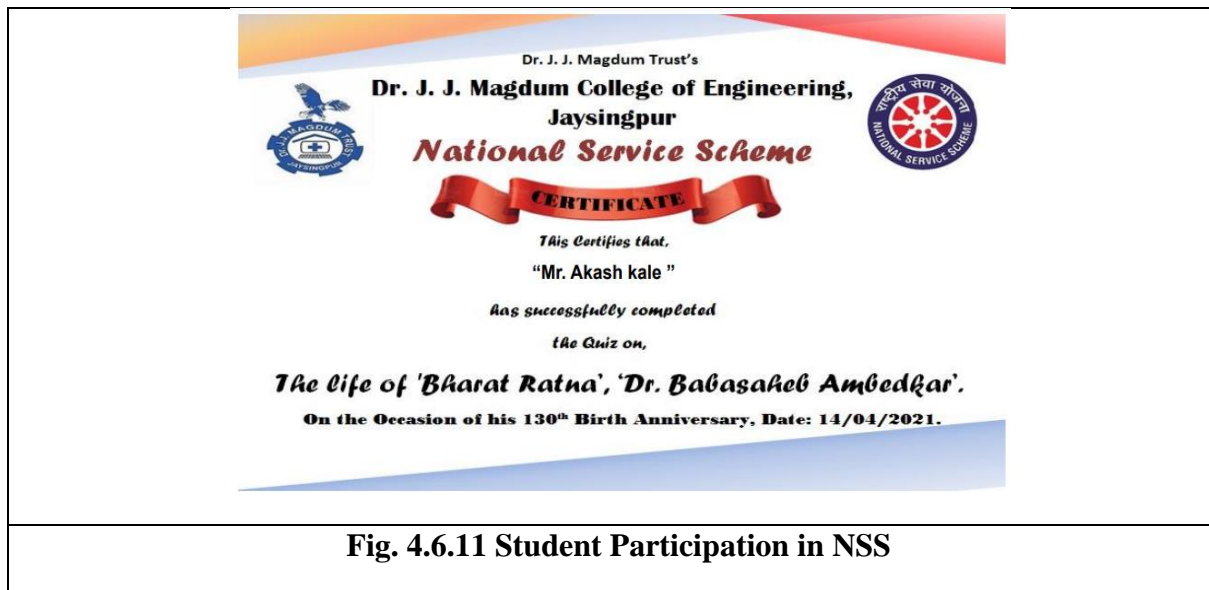
CRITERIA 5

Faculty

Information

and

Contribution

CRITERION 5	Faculty Information and Contributions	200

AY - 2023-24

Name of the Faculty	Qualification			Association with Institute	Designation	Date on which designated as professor or	Date of Joining Institute	Department	Specialization	Academic Research			Currently Associated (Y/N) Date of Leaving (In case Currently	Nature of Association
	Degree	University	Year of Attaining							Paper	Ph.D	Faculty		
Dr. D. A. Nikam	PhD	MUIT	2018	2007	Associ. Prof.	23/06/22	06/11/07	CSE	AI,ML	13	-	-	N 30/7/24	Regular
Prof. A. V. Gundvade	MTech	Shivaji	2018	2018	Asst. Prof.	NA	09/07/18	CSE	Database	8	-	-	Y	Regular
Prof. R. D. Mane	MTech	Shivaji	2017	2015	Asst. Prof.	NA	18/06/2018	CSE	Info. Security	5	-	-	Y	Regular
Prof. P. V. Kothawale	MTech	JNTU	2014	2021	Asst. Prof.	NA	20/12/2021	CSE	Java	5	-	-	N 30/7/24	Regular
Prof. S. A. Narade	ME	Shivaji	2016	2022	Asst. Prof	NA	30/08/2022	CSE	Micro.	3	-	-	Y	Regular
Prof. A. S. Ambupe	MTech	JNTU	2013	2013	Asst. Prof.	NA	30/08/2022	CSE	Comp N/W	1	-	-	Y	Regular
Prof. S. S. Chougule	MTech	Shivaji	2017	2023	Asst. Prof.	NA	17/08/2023	CSE	C, DS	1	-	-	Y	Regular
Prof. A. R. Dargad	MTech	Shivaji	2017	2023	Asst. Prof.	NA	30/08/2023	CSE	Data Scie.	--	-	-	N 6/1/2024	Regular
Prof. N. H. Sayyad	MTech	Shivaji	2018	2018	Asst. Prof	NA	05/07/2023	CSE	Big Data	1	-	-	Y	Regular
Prof.K.A. Bagade	M Tech	Shivaji	2023	2024	Asst. Prof	NA	1/2/2024	CSE	CN	02	-	-	Y	Regular
Dr. S.M. Lekshmi Sri.	PhD	Annamallia University	2017	2023	Associ. Prof.	NA	2/11/2023	CSE	Database	--	--	--	Y	Regular

AY - 2022-23

Name of the	Qualification			Association	Desig	Date on	Date of		Speci	Academic Research	Currently Assoc	Natur
	ree	U	Y	e								

Name	Degree	Uni	Year	Year	Designation	Date	Date of Joining	Dept	Speci	Paper Publication	Ph.D Guidance	Faculty Receiving	iated (Y/N) Date of Leaving (In case Currently Associated is ("No"))	Nature
Dr. D. A. Nikam	PhD	MUIT	2018	2007	Associ. Prof.	23/06/22	06/11/07	CSE	AI,ML	4	-	-	N 30/7/24	Regular
Prof. A. V. Gundvade	MTech	Shivaji	2018	2018	Asst. Prof.	NA	09/07/18	CSE	Database	1	-	-	Y	Regular
Prof. R. D. Mane	MTech	Shivaji	2017	2015	Asst. Prof.	NA	18/06/2018	CSE	IS	2	-	-	Y	Regular
Prof. P. V. Kothawale	MTech	JNTU	2014	2021	Asst. Prof.	NA	20/12/2021	CSE	Java	3	-	-	N 30/7/24	Regular
Prof. S. A. Narade	ME	Shivaji	2016	2022	Asst. Prof	NA	30/08/2022	CSE	Micro.	2	-	-	Y	Regular
Prof. A. S. Ambupe	MTech	JNTU	2013	2013	Asst. Prof.	NA	30/08/2022	CSE	Comp N/W	1	-	-	Y	Regular
Prof. S. S. Satpute	MTech	Shivaji	2016	2019	Asst. Prof.	NA	23/12/2019	CSE	C, Data structure	2	-	-	N 15/6/23	Regular
Prof. P. S Pathak	MTech	Shivaji	2017	2022	Asst. Prof.	NA	27/07/2022	CSE	Comp N/W, BigData	2	-	-	N 26/6/23	Regular
Prof. N. S. Kothiwale	MTech	Shivaji	2018	2018	Asst. Prof	NA	05/07/2023	CSE	Big Data	--	-	-	Y	Regular
Prof. S. B. Farande	MTech	Shivaji	2018	2022	Asst. Prof.	NA	30/08/2022	CSE	DMS	2			N 26/6/23	Regular

AY - 2021-22

Name of the Facult	Qualification			Assoc	Designation	Date on	Date of Joinin		Speci	Academic Research		Currently Assoc	Natur
	ree	Uni	Ye										

										Paper Publication	Ph.D Guidance	Faculty Receiving		
Dr. D. A. Nikam	PhD	MUIT	2018	2007	Associ. Prof./HOD	NA	6/11/**07**	CSE	AI,ML	3	-	-	N 30/7/24	Regular
Dr. C. S. Shinde	PhD	Kalinga University	2017	2006	Asst. Prof.		04/01/2006	CSE	Soft.Engg	-	-		N 12/7/22	Regular
Prof.A.H .Nadaf	M Tech	Shivaji University	2009	2009	Asst.Prof.	NA	7/6/2009	CSE	TOC,CC	--	-	-	N 13/01/22	Regular
Prof. A. V. Gundvade	MTech	Shivaji	2018	2018	Asst. Prof.	NA	09/07/18	CSE	Database	1	-	-	Y	Regular
Prof. R. D. Mane	MTech	Shivaji	2017	2015	Asst. Prof.	NA	18/06/2018	CSE	Info. Security	1	-	-	Y	Regular
Prof. P. V. Kothawale	MTech	JNTU	2014	2021	Asst. Prof.	NA	20/12/2021	CSE	Java	2	-	-	N 30/7/24	Regular
Prof. S. S. Satpute	MTech	Shivaji	2016	2019	Asst. Prof.	NA	23/12/2019	CSE	C, Data structure	4	-	-	N 15/6/23	Regular
Prof. G. I. Rathod	MTech	Shivaji	2017	2013	Asst. Prof.	NA	07/01/2013	CSE	Cloud Computing	--	-	-	N 30/4/22	Regular
Prof. R. S. Barwade	MTech	Shivaji	2013	2018	Asst. Prof	NA	07/01/2013	CSE	Big Data	--	-	-	N 30/4/22	Regular
Prof. N. S. Kothiwale	MTech	Shivaji	2018	2018	Asst. Prof	NA	05/07/2023	CSE	Big Data	--	-	-	Y	Regular

5.1   Student-Faculty Ratio (SFR) (20)

No. of UG Programs in the Department (n): 1

No. of PG Programs in the Department (m): 0

No. of Students in UG 2nd Year= **u1**

No. of Students in UG 3rd Year=

u2 No. of Students in UG 4th

Year= **u3** No. of Students in PG

1st Year= **p1** No. of Students in

PG 2nd Year= **p2**

Year	CAY(2023-24)	CAYm1(2022-23)	CAYm2(2021-22)
u1.1	66	66	66
u1.2	66	66	66
u1.3	66	66	66
UG1	**198**	**198**	**198**
Total No. of Students in the Department **(S)**	**198**	**198**	**198**
No. of Faculty in the Department **(F)**	**11**	**10**	**10**
Student Faculty Ratio (SFR)	**SFR1=198/11 = 18**	**SFR2= 198/10 = 19.8**	**SFR3= 198/10= 19.8**
Average SFR	**SFR=(18+19.8+22)/3= 19.93**		

5.1.1 The information about the regular and contractual faculty

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY (2023-24)	11	-
CAYm1(2022-23)	10	-
CAYm2(2021-22)	10	-

5.2 Faculty Cadre Proportion (25)

Cadre Ratio = (0+0.3+0.6) X 12.5
= 11.25

5.3 Faculty Qualification (25)

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2023-24)	1	0	2	2	6	9
CAYm1(2022-23)	1	0	2	1	6	9
CAYm2(2021-22)	1	0	2	0	6	9
Average Numbers	RF1=1	AF1=0	RF2=2	AF2=1	RF3=6	AF3=9

FQ =2.5 x [(10X +4Y)/F)] where x is no. of faculty with Ph.D., Y is no. of faculty with M.Tech. F is no. of faculty required to comply 20:1 Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)

Years	X	Y	F	FQ=2.5 x [(10X +4Y)/F)]
CAY(2023-24)	2	9	9	15.55
CAYm1(2022-23)	1	9	9	12.77
CAYm2(2021-22)	0	8	9	8.88
Average Assessment				12.40

5.4 Faculty Retention (25)

No. of faculty members in AY 2023-24 = 11, AY 2022-23 = 10, AY 2021-22 = 10

Item	2023-24	2022-23	2021-22
No of Faculty Retained	8	6	8
Total No. of Required Faculty in CAYm2	10	10	10
% of Faculty Retained	80	60	80
Faculty Retained	73.33		

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

Goals:-To enhance the student learning experience beyond traditional classroom instruction, the departmental faculties utilizes innovative concepts and implements them through measurable programs. Our ongoing commitment includes:

1. **Enriching Student Learning:** We foster a stimulating learning environment through the implementation of innovative practices.

2. **Developing Creative Expertise**: The department cultivates students understanding and proficiency in creative methods and strategies.

3. **Broadening Perspectives**: We employ innovative strategies to expand student's awareness of emerging technologies and tools relevant to academics, as well as contemporary and social issues.

4. **Motivating Student Innovation**: Through diverse club activities, we inspire students to develop their innovative thinking, formulation, and execution skills.

List of initiatives in teaching and learning process followed by the faculty members of department:

1. **Use for Vmedu ERP**: A facility for learning innovations, sharing knowledge across nations, reducing diversity and development for students benefits to uplift overall quality of education. Such online facilities are called as ERP, and are a part of an excellent innovative initiative taken by the department of Computer Science & Engineering.

Outcome: It enhances students' understanding and learning.

2.**Use of Animations/ Mini projects/CASE studies/Templates**:-The department offers IoT kits for developing mini-projects in Internet of Things (IoT) and digital electronics. Additionally, the department provides different types of software for application development. Faculty members actively engage in developing

applications and mini-projects alongside students with standard project document and templates .All classrooms are well-equipped with high-quality projectors, readily available for immediate use.

Outcome: Improve students' teamwork, understanding and learning

3. **Google Classroom**:-Faculty members have also created their own Google Classrooms. These platforms allow them to upload study materials relevant to their specific subjects. Students can freely access all uploaded content through shared links. During the pandemic, faculty effectively utilized Google Meet to conduct online lectures and Google Classrooms for assigning tasks, sharing resources and receiving online submissions.

Outcome: Outcome: Improve students' understanding and learning

4. Online quiz sessions: Faculty members prepare and Online quiz on Vmedu ERP and students can attempt it on Vmedu app using their mobile phones. These help in creating interest by breaking monotony of regular classes while enhancing the learning experience.

Outcome: Subject knowledge enhancement

5. Industry Visits: Department organizes industrial visits for the students every year. It helps to expose to the latest developments in the technology. Also Faculty members visit industries to gain the knowledge regarding modern tools and techniques.

6. Blogging:-**CSE department and Faculty members created blogs to share resources and innovative ideas for enhancing teaching learning process**.

Blog by CSE department has been created link for the same as below - https://jjmcse.blogspot.com/ (https://jjmcse.blogspot.com/)

Blog by Faculty member: https://techpravin.blogspot.com/ (https://techpravin.blogspot.com/)

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

Name of the Faculty	2023-24	2022-23	2021-22
Prof. Dr. Nikam D. A.	5	5	5
Dr. C. S. Shinde	-	-	5

Prof. Gundavade A.V	5	5	5
Prof. Mane R.D.	5	-	5
Prof. P. V. Kothawale	5	-	5
Prof. P. S. Pathak	-	5	-
Prof. P. S. Ambupe	5	-	3
Prof. R. S. Barwade	-	-	5
Prof. G. I Rathod	-	-	5
Prof. S. S. Satpute	-	-	5
Prof. S. B. Farande	-	-	5
Prof.S.A.Narde	5		
Prof.S.S.Chougule	5		
Prof.A.R.Dargad	-		
Prof.N.H.Sayyad	5		
Dr.S.M.Lakshmi Sri.	-		
Sum	40	15	48
RF = No. of Faculty required	9.90	9.90	9.90
Assessment = 3 × (Sum/0.5RF) (Marks limited to 15)	**24.24**	**9.09**	**29.09**
Average assessment over three years (Marks limited to 15) = 20.80			

5.7   Research and Development (30)

5.7.1 Academic Research (10)

2023-2024

Sr. No.	Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number
1	Stress Detection in Professionals by Face & Speech	Prof. R. D. Mane	IJSREM	Apr-24	2582-3930

2	Social Media Using Blockchain	Prof. P. V. Kothawale	IJIRSET	Mar-24	2319-8753
3	Social Media Using Blockchain	Prof. P. V. Kothawale	IJMRSET	Apr-24	2582-7219
4	UPI Fraud Detection Using Machine Learning	Prof. P. V. Kothawale	IJSREM	Apr-24	2582-3930
5	Institutional Social Media Application (ConNet)	Prof. Archana V. Gundavade	IJIRCCE	Apr-24	2320-9798
6	Image Separation and Sharing Application	Prof. Archana V. Gundavade	IJSREM	Apr-24	2321-9653
7	Load Distribution & Time Table Generation Software	Prof. Archana V. Gundavade	IJRASET	Apr-24	2582-7219
8	Network Lifetime and PDR Analysis of QoS Aware Routing Protocol for EH-WSN	Prof.KIRAN DOIPHODE	IJERA	Aug-23	2248-9622
9	LEAF DISEASE DETECTION SYSTEM USING DEEP LEARNING	Prof.KIRAN DOIPHODE	IJIRT	Apr-24	2349-6002
10	SKIN DISEASE DETECTION USING MACHINE LEARNING	Prof.KIRAN DOIPHODE	IJIRT	Apr-24	2349-6002
11	Malware Detection Using Machine Learning	Prof. S. A. Narade	IJSREM	Apr-24	2582-3930
12	AI Resume Analyzer	Prof. Shruti A. Narde	IJSREM	Apr-24	2582-3930
13	Brain Tumor Detection Using Machine Learning with CNN Algorithm	Prof. Shruti A. Narde	IJRASET	Dec-23	2321-9653
14	Smart Agriculture Automation System using ML	Dr. D. A. Nikam	IJRASET	Apr-24	2321-9653
15	Brain Tumor Detection Using Machine Learning with CNN Algorithm	Dr. D. A. Nikam	IJRASET	Dec-23	2321-9653

Sr. No.	Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number
16	Brain Tumor Detection Using Machine Learning with CNN Algorithm	Dr. D. A. Nikam	IJCSIT	Feb-24	0975-9646
17	Mart Billing System	Dr. D. A. Nikam	IJSREM	Apr-24	2582-3930

2022-23

Sr. No.	Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number
1	An Overview of Cyber bullying	Prof. R. D. Mane	International Journal of Research and Analytical Reviews (	Jan-23	2348-1269
2	Weather Forecasting and Air Quality Analysis	Prof. P. V. Kothawale	International Journal of Innovative Research in Computer and Communication Engineering	Mar-23	2320-9801
3	Activity Recognition System for Smart Campus	Prof. P. V. Kothawale	International Journal for Research in Applied Science and Engineering Technology	Mar-23	2321-9653
4	Video Summarization of Surveillance Camera Using MobileNet SSD Object	Prof. Prachi Pathak	Journal of Innovative Research in Computer and Communication Engineering	Mar-23	2320-9801

5	BASECAMP(Kanban Board)	Prof. Shruti A. Narde	International Journal of Scientific Development and Research	Apr-23	2455-2631
6	E-Prescription using Speech-Recognition	Prof. Prachi Pathak	Innovative Research in Computer and Communication Engineering	Mar-23	2320-9801
7	Customer Mall Segmentation	Dr. D. A. Nikam	National Conference on Emerging Trends in Engineering & Technology		978-93-91535-91535-44-5
8	Customer Mall Segmentation using K-means algorithm	Dr. D. A. Nikam	Innovative Research in Computer and Communication Engineering	Apr-23	2320-9801
9	Location Based Advertisement Using Geofencing	Prof. S. A. Narade	Innovative Research in Computer and Communication Engineering	Apr-23	2320-9801
10	Exploring DevOps Culture in Jewellery Web Application	Prof. Archana V. Gundavade	Innovative Research in Computer and Communication Engineering	Mar-23	2320-9801
11	Smart Electric Vehicle Charging Station	Prof. Sneha Satpute	Innovative Research in Computer	Apr-23	2320-9801

		and Communication Engineering		
12	Diabetes Prediction Using Machine Learning Techniques	Prof. Snehal Farande	Innovative Research in Computer and Communication Engineering	Apr-23	2320-9801
13	Thyroid Prediction Using Machine Learning	Prof. R. D. Mane	Innovative Research in Computer and Communication Engineering	Apr-23	2348-1269
14	Smart shopping trolley	Prof. A. V. Gundavade	Innovative Research in Computer and Communication Engineering	June 23	(ISBN : 978-93-95470 - 52-0)
15	E-healthcare cloud solution	Prof. Sneha Satpute	Innovative Research in Computer and Communication Engineering	June 23	(ISBN : 978-93-95470 - 52-0
16	Chattery the chatbot	Prof. A.V. Gundavade	Innovative Research in Computer and Communication Engineering	June 23	ISBN : 978-93-95470 - 52-0
17	Construction Site Inspection by using Drone or UAV	Prof. Dr. D. A Nikam	Innovative Research in Computer and Communic	June 23	ISBN : 978-93-95470 - 52-0

Sr. No	Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number
			ation Engineering		
18	Face recognition attendance system	Prof. P. S. Ambupe	Innovative Research in Computer and Communication Engineering	June 23	ISBN : 978-93-95470 - 52-0
19	Urban emergency event detection using social media	Dr. D. A. Nikam	Innovative Research in Computer and Communication Engineering	June 23	ISBN : 978-93-95470 - 52-0
20	Male Vikas Co-operative Society	Prof. P. V. Kothawale	Innovative Research in Computer and Communication Engineering	June 23	(ISBN : 978-93-95470 - 52-0)
21	Women security android application	Prof. Snehal Farande	Innovative Research in Computer and Communication Engineering	June 23	(ISBN : 978-93-95470 - 52-0)
22	Survey Paper on Stock Market Prediction	Prof. R. D. Mane	International Journal of Research Publication & Reviews	June 23	2581-7421
	AY: 2021-22				
Sr. No	Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number
1	Yoga Mentoring using AI	Dr. Prof. D A Nikam	International Journal of Modernization in	2022	2582-5208

			Engineering Technology and Science		
3	Voice assistant using Python	Prof. A V Gundavade	IJCRT- International Journal of Creative Research Thoughts.	2022	2320-2882
4	Music Recommendation System Using Facial Emotion	Prof. P. V. Kothawale	International Journal of Research Publication and Reviews	2022	2582-7421
5	IOT based Burglar notification system using image processing	Prof. S. S. Satpute	International Research Journal of Modernization in Engineering Technology and Science	2022	2582-5208
6	Mart video summarization using subtitles	Prof. S. S. Satpute	International Research Journal of Modernization in Engineering Technology and Science	2022	2582-5208
7	survey paper on stock market prediction	Prof. R D Mane	International Journal of Research Publication and Reviews	2022	2582-7421
8	Room light controller Using IOT	Dr. Prof. D A Nikam	International Research Journal of Modernization in	2022	2582-5208

			Engineering Technology and Science		
9	Survey Paper on Automatic Number Plate Recognition	Prof. S. S. Satpute	International Journal of Research Publication and Reviews	2022	2582-7421
10	Intelligent Crop And Pesticide Recommendation Portal Using Ml And Ai	Dr. D A Nikam	International Research Journal of Modernization in Engineering Technology and Science	2022	2582-5208
11	Data Storage and Billing System	Prof. P. V. Kothawale	International Journal of Research Publication and Reviews	2022	2582-7421
12	A Review on Symmetric Key Encryption	Prof. R. D. Mane	International Journal of Research & Technology	2022	2321-7529
13	Proposed System On Object Detection For Visually Impaired People	Prof. S. S. Satpute	IJRPR-International Journal of Research Publication and Reviews	2022	2582-7421

Books Published:

Sr.No.	Name of Author	Title of Book	ISBN/ISSN	Year of Publication	Publisher
1	Dr.Deepali A. Nikam	Artificial Intelligence	978-93-91472-40-5	June 2021	Tech-Neo Publication, Pune

| 2 | Dr.Deepali A. Nikam | Introduction of Artificial Intelligence | 978-93-91472-27-6 | July 2021 | Tech-Neo Publication, Pune |

5.7.2 Sponsored Projects -Nil-

5.7.3 Development activities (10)

5.7.3.1 Product Development – Patent / Copyright / Design

Sr.No.	Name of the Faculty	Title	Status	Date
1	Dr. D. A. Nikam	Customer Experience Monitoring Device, Design No. – 373934-001	Registered	14/09/2023
2		Construction Site Inspecting Robot Design No. – 394812-001	Registered	11/09/2023
3		Wave Energy Generating Machine Design No. – 394812-001	Registered	14/09/2023

Table 5.7. 3.1 Design Patents for AY 2023-24

Sr.No.	Name of the Faculty	Title	Status	Date
1	Dr. D. A. Nikam	Automatic Beam Controlling Headlight Design No. - 373934-001	Registered	11-11-2022
2		Smart Traffic Controller Using Arduino & Image Processing Application No – 202221064092	Published	18-11-2022
3	Dr. D. A. Nikam	Yoga Trainer Device Using Artificial Intelligence Design No – 373734-001	Registered	08-11-2022
4	Prof. A. V. Gundvade	Spectacles Application No – 373733-001,	Registered	08-11-2022

Table 5.7. 3.2 Patents for AY 2022-23

Sr.No.	Name of the Faculty	Title	Status	Date

| 1 | Dr. D. A. Nikam | RAT Catching Device For Car | Registered | 11-06-2022 |

Table 5.7. 3.3 Patents for AY 2021-22
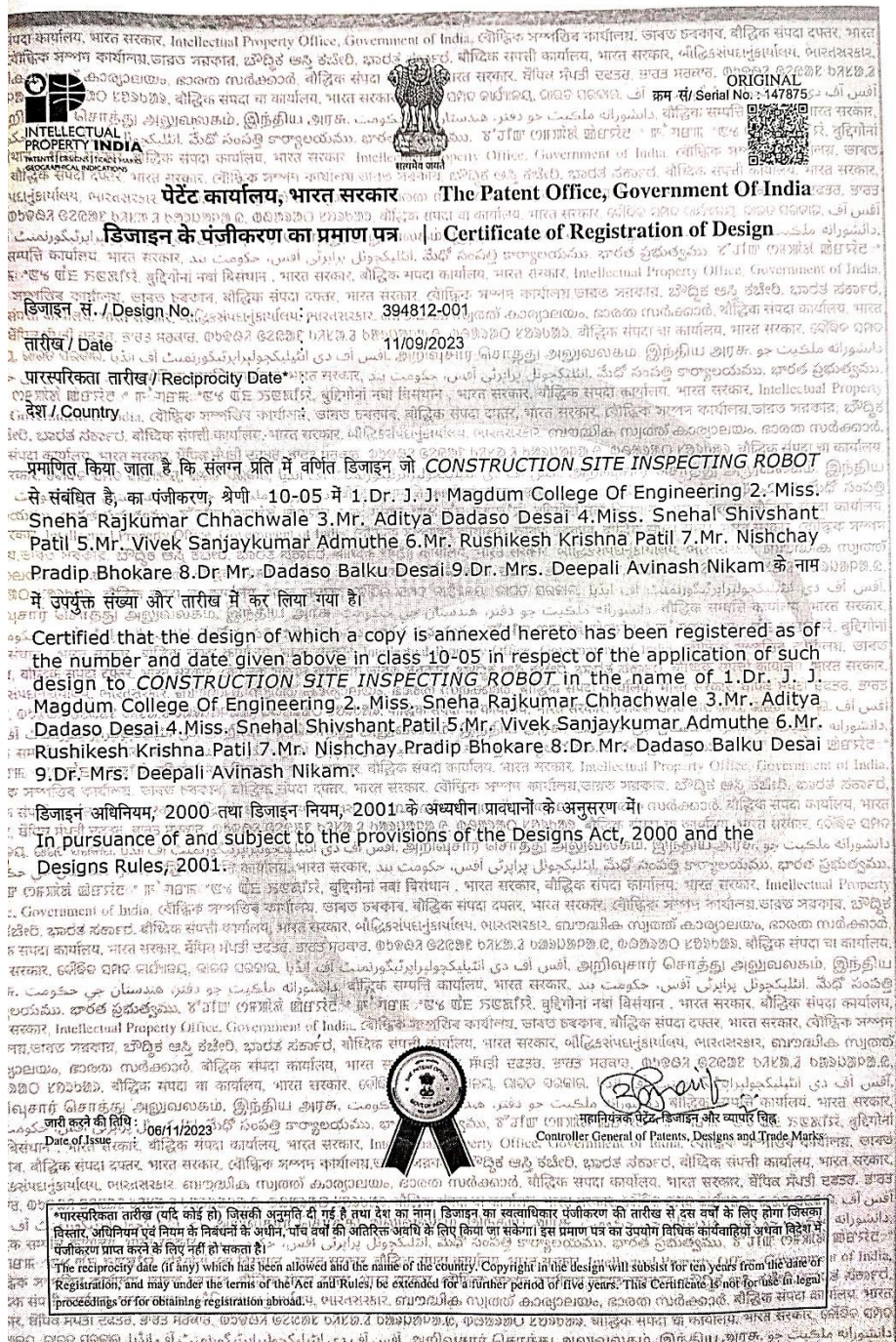
Fig. 5.7.3.1 Design Registration by Dr. Deepali Avinash Nikam

5.7.3.2   Research Laboratories

Research laboratories are useful to students, faculty members to carry out research and to work on different problem statements. The department has the facility to conduct UG research in various labs of the department. Laboratory equipped with all facilities required for the project work. All PCs having internet connection and Wi-Fi facility is also provided in a Lab. It is maintained by the respective Lab Assistant under the guidance of Lab In charge. The Project Laboratory has a key role in promoting practical learning experience, where students develop creative proposals and execute their final projects. For this reason, the Department of Computer Engineering has a separate Project laboratory. Professional personnel are always available to give help and support to students in projects and Experiments. Hence a free access policy beyond the regular lab hours in a safe and secure facilities and utilizations is available.

5.7.3.3 Instructional materials

Faculty members have created Lab Manuals for each subject which help students to perform practical during Laboratory hours. Instructional materials may aid a student in concretizing a learning experience so as to make learning more exciting, interesting and interactive. These are the tools used in instructional activities, which include active learning and assessment. Instructional materials used by faculties of the department as a part of teaching learning are classified as: Prints - Textbooks, handouts, study guides, Lab manuals. Audiovisual - Slides, video, multimedia. Electronic Interactive Instructional Materials (Computers, tablets, mobiles) all faculty members of department developed their own course materials for course allotted to them. Faculty members used to share this material through blogs and Google classroom.

5.7.3.4 Working models/charts/monograms etc.

In some subjects faculty members use models to increase student's interest and level of learning. The main goal of this is to engage students in an active learning environment.

5.7.4   Consultancy (from Industry) (5)

Department provides consultancy in terms of infrastructure facility provided for conduction of Online exams of TCS, CTET, IBPS BOB, CRP and VM InfoTech.

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

Performance Based Appraisal System (PBAS) exists in the institute and is done for each

assessment year. The PBAS details are submitted by each faculty at the end of each year via Head of Department to Dean, FDC. The performance is assessed by Dean, FDC. The performance of the teachers shall be evaluated in the following three categories:

1. Teaching, Learning and Evaluation Related Activities.

2. Co-Curricular, Extension and Professional Development Related Activities.

3. Research and Academic Contributions.

4. For Categories I, II and III the maximum scores that a teacher can record is 120, 75 and 215 respectively

Dr. J. J. Magdum College of Engineering, Jaysingpur-416101
PBAS Performa for Promotion under CAS
Academic Year 2023-24
PART A: GENERAL INFORMATION AND ACADEMIC BACKGROUND

1. Name (in Block Letters): DR.MRS.DIPALI AVINASH NIKAM

2. Fathers' Name/ Mother's Name: MR.ANIL MAHADEV KALE

3. Department: COMPUTER SCIENCE AND ENGINEERING

4. Current Designation and Grade Pay: ASST PROF. AND 7000/-

5. Date of Last Promotion: JUNE2023

6. Which Position and Grade Pay are you an Applicant under CAS?: ASSO.PROF. AND 37,400/- AGP-7000/-

7. Date of Eligibility for Promotion: 1/7/2023

8. Date and Place of Birth: 03/04/1983, ICHALKARANJI

9. Sex: FEMALE

10. Marital Status: MARRIED

11. Nationality: INDIAN

12. Indicate whether belongs to SC/ST/OBC category: NT2

13. Address for Correspondence   (with Pin Code)
: AMRITVEL,SHIKSHAK COLONY,AASARA NAGAR,ICHALKARANJI 416115.

14. Permanent Address: AMRITVEL,SHIKSHAK COLONY,AASARA NAGAR,ICHALKARANJI 416115.

15. Telephone Number: R - Nil
                          M - 9763998242

16. e-mailid: Official – deepali.nikam@jjmcoe.ac.in
              Personal – d_a_kale@yahoo.co.in

Figure 5.8.1: Sample PBAS first page

Sr No	Name of Faculty	Designation	Category I Score	Category II Score	Category III Score	Total	Remark
1	Dr. D. A. Nikam	Asso. Prof.	120	66	95	284	Eligible
2	Prof. A. V. Gundvade	Asst. Prof.	81	20	66	168	Eligible
3	Prof. P. V. Kothawale	Asst. Prof	110	10	45	165	Eligible
4	Prof. S. A. Narde	Asst. Prof	110	10	44	164	Eligible

Table 5.8.2: Sample PBAS Scores

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

Professor / Industry experts are invited by the department to give lecturers/ sessions or conducting Add-on courses.

1. Institute has a policy to invite or appoint Visiting/Adjunct/Emeritus faculty as and when demanded by head of the department to cater academic needs.

2. Industry experts and Senior Academician are invited as adjunct faculties in association with the institute and program.

3. On of the key objectives to engage Visiting/Adjunct/Emeritus Faculty is to have a strong and robust collaboration between the educational institution and industry.

4. Such involvement helps in bringing practical perspective to theoretical teaching, which makes classes more interesting and enriching for students as well as faculty.

5. The purpose behind this invitation is to give an industrial insight, industrial exposure to the students. It is aimed at enhancing the knowledge of the students in project selection, execution, product design and development, communication and soft skills and entrepreneurship development

6. The department also has provision of the soft skill training every year from the outside agencies. The department conducted soft skill training for S.Y., T.Y. & Final Year Students of Computer Science & Engineering

Year	Name	Contributions	Hours
2023-24	Mrs. Pragati Kadolkar	Soft Skills, Business English	50

| 2022-23 | Mrs. Pragati Kadolkar | Soft Skills, Business English | 50 |
| 2021-22 | M. V. Kalawate | Soft Skills, Business English | 50 |

Table 5.9 Visiting Faculty

CRITERIA 6

Facilities and Technical Support

CRITERION 6	Facilities and Technical Support	(80 Marks)

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

The department is well established with necessary infrastructure, the details of laboratories and technical manpower are given in Table 6.1.1.

Sl. No.	Name of the Laboratory	No. of Students per setup (Batch Size)	Name of Important Equipment	Weekly Utilization Status (all courses for which lab is utilized)	Technical Manpower Support		
					Name of Technical Staff (s)	Designation	Qualification
III To VIII Semester							
1	Operating System & S/W Development Tools Lab. 87.77 Sq. M.	20	**Computers** - HP Compaq Intel Core 2 Duo @ 3.00 Ghz 4 GB RAM, 300 GB HDD, Printers and UPS	Sem. – I 28 h. Sem. – II 40 h	Mr. C. A. Mane	Technical Assistance	D.C.S.
2	Project Lab. 67.43 Sq. M.	20	Computers - Dell Optiplex 380 Core 2duo 2.93 ghz.Motherboard with parallel port 2GB DDR3 RAM,320 GB Sata HDD, Printers and UPS HCL Core 2 Deo @ 2.4 Ghz. 1 GB DDR2 RAM ,160 GB SATA HDD. Keyboard, Mouse	Sem. – I 14 h. Sem. – II 14 h	Mr. C. A. Mane	Technical Assistance	D.C.S.
3	Computer Network Lab. 67.27 Sq. M.	20	Dell Optiplex 7010 SFF(Ci5/4.5/16GB/256GB SSD/ 3 Yrs) 19.5" Dell LED Monitor, Keyboard , Mouse	Sem. – I 18 h. Sem. – II 14 h	Mr. S. M. Swami	Technical Assistance	P.G. D.C.S.

4	Web. Technology Lab. 67.90 Sq. M.	20	Dell Optiplex 380 Core 2 Duo @ 2.93 Ghz. 2 GB DDR3 Ram,320 GB SATA H.D.D.,	Sem. – I 12 h. Sem. – II 18 h	Mr. S. M. Swami	Technical Assistanc e	P.G. D.C.S.
5	Database Lab. 68.47 Sq. M	20	Intel Core i-5,16 GB DDR4 RAM,512 GB HDD,	Sem. – I 20 h. Sem. – II 20 h	Mr. C. A. Mane	Technical Assistanc e	D.C.S.
6	Programmin g Lab. 84.59 Sq. M	20	Dell OptiPlex 3000 T 12th Gen. Intel Core – i5 – 12500 @ 3.00 Ghz., 8 GB (1X8 GB) DDR4 Non –ECC Memory, 256 GB SSD,	Sem. – I 8 h. Sem. – II 12 h	Mr. S. M. Swami	Technical Assistanc e	P.G. D.C.S.

Table 6.1.1: Details of Laboratories

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

Sr. No.	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	LCD Projector	Dell 1210-1	Presentation	Students & faculty utilizing all the Classrooms /Seminar Hall	Clarification of the Concepts with better vision	PO1 / PO2/PO3
2	Microsoft Cloud Campus	Office365, Visual Studio Pro MSDN,SQL Server	Practical	Students & faculty utilizing Labs.	Practical Based subjects	PO5

| 3 | Open-Source software | Python, MySQL, Anaconda, JDK, VSCode etc. | To make students aware of Latest technology | Students | Technical Knowledge | PO7/PO10/PO12 |
| 4 | Department Library | Reference Books, Journals, Project Report etc. | Resources for Teaching and Learning | Students & faculties | Knowledge Improvement | PO7 / PO8/PO12 |

Table 6.2.1: List of additional facilities created

6.3 Laboratory Maintenance and overall ambiance (10)

Maintenance of Laboratory Equipment:

- Regular maintenance is carried out at the end of each semester.
- Breakdown register is maintained in the laboratories.
- Computers are installed with antivirus software.
- Regular cleaning and maintenance of computers is done.
- Major repairs are outsourced by following the procedure of the institute.

Overall Ambience:

- All laboratories are equipped with state-of-the-art equipment to meet the requirements of the curriculum.
- All laboratories have adequate lighting and ventilation.
- All the Laboratories are maintained clean.
- Sufficient space is available for accommodating all students.
- Sufficient furniture is available.
- Basic amenities are provided.

6.4 Project Laboratory (5)

Implementation plays an important role in the educational experience and provides practical skills to students. The objective of this lab is to motivate and encourage students to do their major and mini project. This lab provides a place where the students can make projects while working in groups and as an individual. Laboratory equipped with all facilities required for the project work. All PCs having internet connection and Wi-Fi facility are also provided in a Lab. It is maintained by the respective Lab Assistant under the guidance of Lab In charge. Hardware maintenance is done. The project laboratory of the department offers the opportunity to gain valuable hands-on experience where students become proficient in Technical Training, Mathematical Skills, Problem-Solving, Decision-Making skills etc needed in the field of Computer Engineering. The Project Laboratory has a key role in promoting practical learning experience, where students develop creative proposals and execute their final projects. For this reason, the Department of Computer Engineering has a separate Project laboratory within its premises. Professional personnel are always available to give help and support to students in projects and Experiments. Hence a free access policy beyond the regular lab hours in a safe and secure. Facilities and Utilizations is available in Table 6.4.1.

Name of the Facilities	Utilization
Turbo C	4th ,6th,7th ,8th Semester students
JDK	
Eclipse, Net Beans IDE	
Oracle 10g	
Adobe Reader	
Linux	
Apache Tomcat	

Table 6.4.1: Details of laboratory facilities for project work

6.5 Safety Measures in laboratories

Details of safety measures are tabulated in Table 6.5.1

Sl. No.	Name of the Laboratory	Safety Measures
1	Operating System & S/W Development Tools Lab	● Safety Instructions ● Safety Charts ● Fire extinguisher ● First Aid Kit ● Antivirus ● Firewall
2	Project Lab	
3	Computer Network Lab	
4	Web. Technology Lab	
5	Database Lab	
6	Programming Lab	

Table 6.5.1: Details of safety measures

CRITERIA 7
Continuous Improvement

CRITERION 7	Continuous Improvement	(50 Marks)

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

Identify the areas of weaknesses in the program based on the analysis of evaluation of POs & PSOs attainment levels. Measures identified and implemented to improve POs & PSOs attainment levels for the assessment years. Actions to be written as per table in Table 7.1.1

Course	PO1	PO2	PO 3	PO 4	PO 5	PO 6	PO7	PO 8	PO9	PO 10	PO 11	PO 12	PSO 1	PSO 2
Target Level	2.40	2.35	2.30	2.40	2.51	2.14	2.32	2.50	2.39	2.14	2.2	2.36	2.16	2.26
Attainment Level	2.23	2.33	2.25	2.00	2.00	1.92	2.25	1.86	1.78	1.83	1.74	1.89	2.05	2.00

Table 7.1.1 POs Attainment Levels and Target levels CAY (2023-24)

Actions for improvement – CAY (2023-24)

PO	Target Level	Attainment Level	Observations
PO1:<u>Engineering Knowledge</u>: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems			
PO1	2.40	2.23	Attainment level is 83% of Target value. The courses which required more efforts are Discrete Mathematic Structure, Automata Theory, Operating System-II, Computer Organization and Architecture, Microprocessor. 1. Solving problems was difficult.2. Basic knowledge of Discrete Mathematic Structure, Automata Theory and Microprocessor was not well understood.
Action 1: Expert Lectures will be conducted by the industry experts and alumni, to strengthen the basic concepts and fundamentals. Action2: Planned to solve additional practice problems for numerical subjects.			

Action3: Students will be given more Tutorials and Assignments to enhance their understanding and skills.

Action 4: Conduction of activities like quiz and use of National Programme on Technology Enhanced Learning video lectures during teaching.

PO2: <u>Problem Analysis</u>: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO2	2.35	2.33	Attainment level is 98% of Target value. The courses Discrete Mathematic Structure, Automata Theory, Microprocessor, Soft Skill, Business English have further scope of improvement.

Action 1: Students will be motivated to participate in technical events & competitions.

Action 2: Use of NPTEL and Edu Skills video lectures to enhance student's analytical skills.

Action 3: Students will be directed to utilize online educational platforms like MOOCs and Coursera courses to access additional study materials.

Action 4: Students will be encouraged to cultivate the practice of conducting literature surveys by recommending that they consult a minimum of 6 research papers pertinent to their project.

PO3: <u>Design/Development of Solutions</u>: 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.

PO3	2.30	2.25	Attainment level is 95% of Target value.The courses Data structure, Computer Algorithm, Object Oriented Modelling and design required more efforts. students find it difficult to applyengineering fundamentals to solve complex engineering problems

Action 1: Implementating projects that involve solving real-world design problems.

Action 2: Students will be encouraged to do industrial training and internships to identify complex engineering problems.

Action 3: A specialized session on project guidance is arranged to enhance students' skills in identifying, formulating, and analyzing engineering problems.

PO4: <u>Conduct Investigations of Complex Problems</u>: 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.

PO4	2.40	2.00	Attainment level is 60% of Target value.Target is attained. Students requiring additional supportfor Subjects Project, Mini project, Information Security, Machine Learning, Deep Learning. There was a need to enhance the students' data analytical and interpretation skills..

PO5: <u>Modern Tool Usage</u>: 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.

PO5	2.51	2.00	Attainment level is 59% of target value.The courses which need attention are Artificial Intelligence, Internet of Things, Cloud Computing, Mobile Application Development. Students lack in practicing the Modeling Simulation and Analytical tools.

Action 1: Students will be motivated to enroll in various courses such as the National Programme on Technology Enhanced Learning and Spoken Tutorial.

Action 2: Students will be urged to participate in internships and industry training.

Action 3: A specialized session will be scheduled to inform students about advanced tools utilized in the IT industry.

PO6: <u>The Engineer and Society</u>: 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.

PO6	2.14	1.92	Attainment level is 78% of Target value. Students encountered difficulties in applying engineering practices effectively in society.

Action 1: Students will be encouraged to participate in NSS activities and social welfare activities.

Action 2 Students are encouraged to participate in professional society chapters' events to improve professional engineering practices.

PO7: <u>Environment and Sustainability</u>: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO7	2.32	2.25	Attainment level is 90% of Target value. Efforts were made to raise awareness among students about the environment and sustainability.

Action 1: Promotion of tree plantation in college premises to create a sense of inclusion towards environment and sustainability.

Action 2: Students will be encouraged to do their project and mini project work which will be beneficial for society and helpful in an environmental context.

Action 3: A expert session will be organized to address environmental and sustainability issues in engineering.

Action 4: More activities will be organized for Plastic free campus, e-waste collection and No vehicle Day.

PO8: <u>Ethics:</u> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO8	2.50	1.86	Attainment level is 36% of Target value. Students exhibited a deficiency in adopting a multidisciplinary approach.

Action 1: More activities will be organized to help the students better understand professional ethics and responsibilities.

Action 2: Students will be made aware of Intellectual property rights, corporate etiquette.

Action 3: A specialized session will be scheduled to inform students about advanced AI tools for plagiarism.

PO9: <u>Individual and Team Work</u>: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO9	2.39	1.78	Attainment level is 59% of Target value. There were fewer multidisciplinary projects found.

Action 1: : Students are motivated to participate in team activities like Group discussion, Quiz, Project Competitions, Sports, Cultural events.

Action 2: Students will be encouraged to organize various events, activities.

Action 3: Students will be encouraged to engage in multidisciplinary projects

PO10: <u>Communication</u>: 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.

PO10	2.14	1.83	Attainment level is 69% of target value. It is observed that there is scope of improvement in soft skill..

Action 1: Mock interviews, group discussion will be planned for students.

Action 2: The students are encouraged to participate in competitive events like essay writing, debate events.

PO11: <u>Project Management and Finance</u>: 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.

PO11	2.2	1.75	Attainment level is 30% of target value. It has been observed that there is a need to place more emphasis on engineering economics and financial analysis

Action 1: Students are encouraged to develop projects in a multidisciplinary team.

Action 2: Students are being encouraged to take part in technical competitions like project exhibition, paper presentation, hackathon to enhance their project management skills.

PO12: <u>Life-Long Learning:</u> 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.

PO12	2.36	2.05	Attainment level is 68% of Target value. Students demonstrated adequate utilization of new technological development tools, knowledge of new products, and the use of ICT facilities. Students face challenges in identifying real life problem

Action 1: Students will be encouraged to enroll for various certification courses through online platforms like Swayam, Coursera, Udemy, NPTEL.

Action 2: Awareness on latest technologies and trends will be created through expert lectures and Industrial visits.

PSO1:- Learn and apply latest Software Technologies in the field of Computer Science & Engineering.

PSO1	2.16	2.05	Attainment level is 89% of Target value. Students had limited opportunities to practically design for actual or industrial projects.

Action 1: Students will be encouraged to use features of open-source tools.

Action 2: Students will be motivated for learning advance technologies in Natural Language Processing, Artificial Intelligence, Cloud computing, Machine learning.

PSO2:- Identify real time problems and deliver innovative Software solutions for the development of society.

PSO2	2.26	2	Attainment level is 74% of target value. Students encountered challenges when working in a multidisciplinary environment.
Action 1: Students will be encouraged to carry out their projects as per society's needs. Action 2: Students will be encouraged to participate in various online certification courses on the latest technologies.			

Table 7.1.2: Actions taken Details

7.2. Academic Audit and actions taken thereof during the period of Assessment (10)
(Academic Audit system/process and its implementation in relation to Continuous Improvement)

- Academic audit of departments in the college have put sufficient quality assurance mechanisms in terms of strategies, procedures that ensure quality inputs and finally quality outputs

- The files of the department activities are audited once at the end of each academic year internally by Internal Quality Assurance Cell (IQAC).

- The schedule of the IQAC audit is informed well in advance to the HoD's and department coordinators. They are in turn intimate the schedule to the faculty members.

- The auditors (verification team) who are the coordinators of any other department deputed by IQAC audit thoroughly by going through each and every document and not by sample. This enables the department to assess itself and ensure continuous improvement.

- All the files verify according to the checklist prepared by IQAC.

- Noncompliance found, if any, (and also suggestions, updates etc.,) are recorded and the same are informed to the Head of the department and Head of the IQAC. The recommended suggestions and updates are carried out and they are verified by the same verification team.

- For each course, before the commencement of classes, the faculty members who handle the course prepare the following:

- Lecture Plan, Vision, Mission of the Institute and Department, PEOs, POs and PSOs, Course Outcomes (COs), Mapping of COs with POs/PSOs, Previous year university question papers, Lecture notes for all five units (hand written/PDF/PPT) and Content Beyond Syllabus (CBS). The prepared course material is verified meticulously by the Academic coordinator. The material is further reviewed and approved by HOD.

- Based on the number of co-curricular activities conducted during the previous year 2020-21, the target for the next year 2021-22 is fixed.

The academic audit details and its implementation to improve the audit assessment criteria are presented in table below.

Audit assessment Criteria	Implementation/ Conduct Mechanism	Frequency of assessment	Actions Taken
Continuous Evaluation	CIE-I & CIE-II Performance &Analysis	Twice every semester	Tutorial classes are engaged if required.
University Exams	Result Analysis	Once every semester	Remedial classes are conducted if required.
Feedback	Student Feedback Analysis	Twice in every semester	Faculty are addressed if required.
	Parents Feedback Analysis		Issues are conveyed to the department.

Table 7.2.1: Academic Audit and actions taken

Certificate of Academic Audit

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

Many students are placed in companies and others are admitted to higher degree programs. The table below summarizes the data (as per criterion 4):

Item	2019-20 (LYG:2023-24)	2019-20 (LYG:2022-23)	2018-19 (LYG:2021-22)
Total No. of Final Year Students (N)	66	65	59
No. of students placed in companies or Government sector (X)	32	48	52
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent state or National Level Tests, GRE, GMAT etc.) (Y)	2	3	3
No. of students turned entrepreneur in engineering / technology (Z)	-	0	0
X+Y+Z=	34	50	55
Placement Index: (X+Y+Z)/N	0.48	0.78	0.93
Average placement = (P1+P2+P3)/3	0.73		

Table 7.3.1: Improvement in Placement, Higher Studies, and Entrepreneurship

Assessment Year	Package
2023-24	3.395 LPA
2022-23	3.91 LPA
2021-22	4.17 LPA

Table 7.3.2 Average package for three assessment year

Name of Company	Package
Chegg India, Delhi	3.60 LPA
Acmegrade, Bangalore	4 LPA
Ujjvilas Technologies & Software Pvt. Ltd,sangli	2.5 LPA
Nihilent, Pune	4 LPA
Parentpay, Pune	4 LPA
Kpit,Pune	4.50 LPA

Capgemini,Pune	4.25 LPA
Tcs, Pune	3.36 LPA
Seaquid Technology India Pvt Ltd,Kolhapur.	1.80 LPA
Palle Technologies, Bangalore.	3 LPA
Tech Mahindra Ltd,Pune.	3.25 LPA
Acty System India Pvt. Ltd,Pune.	3.65 LPA.
Intellipaat, Pune.	3.62 LPA
Geny Soft Tech Solutions, Kolhapur	2LPA

Table 7.3.3 Company wise Package for AY 2023-24

Name of Company	Package
Nihilent Ltd.,Pune	4 LPA
Wipro, Pune	3.50 LPA
Atos, Pune	3.40 LPA
Hexaware Technologies, Nagpur.	4 LPA
Tcs, Pune	3.36 LPA
Revature, Pune	6 LPA
Infosys, Bangalore.	3.6 LPA
Kpit, Pune	4 LPA
Capgemini, Pune	4 LPA
Qunatiphi, Mumbai.	8.50 LPA
Acty System India Pvt. Ltd.,Pune.	3.65 LPA
Fourcebolt, Noida	4.20 LPA
Vodaphone, Pune.	4.75 LPA
Amdocs, Pune.	5 LPA
Mindtree A Larsen & Toubro Group Company,Pune	4 LPA
Icici Securities Ltd.,Mumbai.	3.80 LPA
Great Software Laboratory Pvt. Ltd.,Pune	1.80 LPA
Persistent Systems,Pune	4.71 LPA
Tech-Mahindra, Hyderabad.	3.25 LPA

Table 7.3.4 Company wise Package for AY 2022-23

Name of Company	Package
Tcs, Pune	3.60 LPA
Cognizant, Pune	4 LPA
Capgemini, Pune.	2.5 LPA

Amdocs, Pune.	4 LPA
Infosys, Bangalore.	4 LPA
Kpit,Pune	4.50 LPA
Accenture, Pune	4.25 LPA
Persistent, Pune.	3.36 LPA
Emtec Technologies Pvt. Ltd, Pune	1.80 LPA
Wipro, Pune.	3.25 LPA
Yardi Software Pune,	3.65 LPA.
Jade Global, Pune.	3.62 LPA

Table 7.3.5 Company wise Package for AY 2021-22

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

Item		2023-24	2022-23	2021-22
National Level Entrance Examination (JEE)	No. of Students admitted	8	9	7
	Opening Score/Rank	75	73	67
	Closing Score/Rank	63	60	50
State/University/Level Entrance Examination/Others (CET)	No. of Students admitted	60	58	59
	Opening Score/Rank	87	92	91
	Closing Score/Rank	8	7	4
Name of the Entrance Examination for Lateral Entry or lateral entry details Direct Second Year	No. of Students admitted	10	9	14
	Opening Score/Rank	83	89	93
	Closing Score/Rank	7	75	83
Average CBSE/Any other Board Result of admitted students (Physics, Chemistry &Maths)				

Table: 7.4.1: Improvement in the quality of students

CRITERIA 8
First Year Academics
(CSE)

CRITERION 8	First Year Academics(CSE)	50

8. FIRST YEAR ACADEMICS (50)

First year faculty information considering load for the particular program

Name of the faculty member	PAN No.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching Load (%)			Currently Associated (Yes / No)	Nature Of Association (Regular / Contract)	Date Of leaving(In case Currently Associated is 'No')
							CAY 23-24	CAY 22-23	CAY 21-22			
Dr.D.B. Unde	AACPU5081H	M.Sc., PhD	1/12/1993	Mathematics	Professor	7/7/1995	50	50	50	Yes	Regular	
Ms. M.R. Naik	AOGPN2461N	M.Sc	1/4/2009	Mathematics	Assistant Professor	1/7/2011	50	50	50	Yes	Regular	
Mrs. A. A. Ainapure	BEDPA2524P	M.Sc	13/6/2008	Mathematics	Assistant Professor	8/1/2021	100	100	100	Yes	Regular	
Mr.P.P. Patil	AHAPP2825K	M.Sc	1/7/1994	Organic Chemistry	Assistant Professor	1/8/1997	100	100	100	Yes	Regular	
Mrs A.T.Pawar	CXNPP5415L	M.Sc	28/7/2011	Chemistry	Assistant Professor	8/1/2021	0	100	100	No	Regular	26/6/2023
Mr.B.N. Shinde	AOGPS9127Q	M.Sc	1/7/1992	Physics	Assistant Professor	1/8/1997	100	100	100	Yes	Regular	
Mr. J.S. More	EJJPM7561L	M.Sc	18/6/2015	Physics	Assistant Professor	8/1/2021	100	100	100	Yes	Regular	
Dr. S.M. Attar	ADSPA6809Q	M.A , Ph.D	14/11/2017	English	Associate Professor	1/8/1997	100	100	100	Yes	Regular	
Dr. A.M. More	AVUPM3365K	M.A , Ph.D	1/12/2020	English	Assistant Professor	8/1/2021	100	100	100	Yes	Regular	
Dr. U.B.Koli	CWCPK3764K	M.A , Ph.D	10/9/2014	English	Assistant Professor	8/1/2021	100	100	100	Yes	Regular	
Mr.M.B. Bhilawade	AMKPB7030K	M.E	1/4/2008	Electrical Control System	Assistant Professor	2/7/2007	100	100	100	Yes	Regular	

Name	PAN	Qualification	Date	Specialization	Designation	Date of Joining						
Ms. B. R. Miniyar	BNLPM0264R	M.E	23/6/2020	Electronics	Assistant Professor	8/1/2021	0	100	100	No	Regular	26/6/2023
Mr.P. L. Gavade	AEFPG7067L	M.E.	27/5/2014	Electronics	Assistant Professor	8/1/2021	0	100	100	No	Regular	26/6/2023
Mr.A.A. Mahajan	CQJPM9058B	M.E	14/7/2017	Structural Engineering	Assistant Professor	1/6/2021	0	0	100	No	Regular	26/06/2023
Mr.R. H. Yadav	AASPY9743N	M.E.	17/09/2007	Heat Power	Assistant Professor	7/3/2001	0	50	50	Yes	Regular	
Mr. P. P. Malage	AJFPM5052L	M.Tech.	19/03/2018	Energy	Assistant Professor	3/7/2003	0	0	50	Yes	Regular	
Mr. M. V. Kharade	ANIPK9114E	M.E.	19/10/2007	Machine Design	Assistant Professor	1/9/2003	0	0	50	Yes	Regular	
Mr. A. N. Kurane	AOVPK6348A	M.E.	7/9/2012	Structural Engineering	Assistant Professor	8/1/2022	0	100	0	No	Regular	26/6/2023
Ms. P.S.Karke	EAPPK5471N	M.E.	26/2/2006	Environmental Engineering	Assistant Professor	8/1/2022	0	100	100	Yes	Regular	
Mr. Y. R. Patil	AJUPP0053F	M.E.	7/2/2009	Machine Design	Assistant Professor	30/7/1998	100	100	0	Yes	Regular	
Mr. S. M. Shaikh	BFSPS9125L	M.E.	25/1/2012	Heat Power	Assistant Professor	8/8/2005	0	100	0	No	Regular	25/9/2023
Mrs. C. D. Patil	EVIPP1637K	M.Sc	21/6/2014	Organic Chemistry	Assistant Professor	8/1/2023	100	0	0	Yes	Regular	
Mrs. M. R. Jadhav	AQPPJ8041D	M. E.	6/3/2017	ETC	Assistant Professor	8/1/2023	100	0	0	Yes	Regular	
Mr. V. T.Kamble	AVTPK7539E	M.E	27/5/2016	ETC	Assistant Professor	8/1/2023	100	0	0	Yes	Regular	
Mr. R. S. Pawar	BJMPP5377E	M.E	27/1/2020	Structure	Assistant Professor	8/1/2023	100	0	0	Yes	Regular	
Mr. S. V. Mane	AVXPM5802G	M.E	25/5/2021	Construction	Assistant Professor	8/1/2023	100	0	0	Yes	Regular	
Dr P R Kulkarni	ACCPK6278N	M.E Ph D	1/8/2021	Heat Power	Assistant Professor	7/1/1994	100	100	100	Yes	Regular	
Mr. V J Khot	AKTPK9649J	M . E	7/2/2009	Machine Design	Assistant Professor	6/1/1997	100	100	100	Yes	Regular	

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

The data related to first year courses namely number of students, number of faculty and the firstyear student's faculty ratio given in table 8.1.

Table. 8.1: First Year Student's Faculty Ratio

Year	Number of Students (Approved Intake Strength)	Number of Faculty Members (Considering fractional load)	FYSFR	Assessment= (5 x20)/ FYSFR (Limited to Max. 5)
CAY (2023-24)	360	17	21.17	4.72
CAYm1(2022-23)	360	19	18.94	5.27
CAYm2(2021-22)	360	18	20	5
Average	360	18	20.03	4.99
Average assessment				**5.0**

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

Assessment of qualification = (5x +3y)/RF, x= Number of Regular Faculty with Ph. D,

y = Number of Regular Faculty with Post-graduate qualification RF= Number of faculty members required as per SFR of 20:1.

The qualification details of faculties who are involved in handling first year common courses aregiven in table 8.2.

Table 8.2: Qualification of Faculty Teaching First Year

Year	X	Y	RF	Assessment of faculty qualification (5x + 3y)/RF
CAY (2023-24)	4	13	18	3.27
CAYm1(2022-23)	4	15	18	3.61
CAYm2(2021-22)	4	14	18	3.44
			Average Assessment	**3.44**

8.3. First year Academic Performance (10)

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

Formula used for evaluating academic performance is shown in the below example.

Academic Performance = (Mean of the percentage of marks in First Year of all successful students/10)) x (number of successful students/number of students appeared in the examination)

First year academic performance for the three assessment years are presented in the below table. B.8.3.

Table .8.3 First Year Students Academic Performance for the year 2022-23, 2021-22, 2020-21

AcademicYear	Branch	Appeared for Examination	No. Successful Students	Mean of the percentage of marks in First Year of all successful students	API	Average API
CAY (2022-23)	All	276	214	67.20	6.72	7.81
CAYm1(2021-22)		162	162	82.06	8.21	
CAYm2(2020-21)		92	92	84.90	8.49	

8.4. Attainment of Course Outcomes of first year courses (10)
8.4.1Describe the assessment processes used to gather the data upon which the

eva1uation of Course Outcomes of first year is done (5)

Assessing courses effectiveness and measuring its achievement of intended goals depends on the evaluation of course outcomes. This evaluation involves both direct & Indirect tools using well defined rubrics:

A) List of assessment processes:

Assessing courses effectiveness and measuring its achievement of intended goals depends on the evaluation of course outcomes. This evaluation involves the following steps:

Course outcomes: The first stage involves adopting the course outcomes mentioned in the university curriculum, which involves identifying the specific knowledge, skills, and abilities students are expected to gain by the end of the course. Typically, four to six course outcome statements are mentioned for each course.

Develop assessment tools: After adopting the course outcomes, the subsequent step involves establishing assessment tools designed to measure the extent to which students have attained these objectives.

List of tools used to assess the attainment of COs:

• Internal Assessments.

• End Semester Examination

B) Quality/Relevance of assessment processes and tools used

Internal Assessments:

Continuous Internal Evaluations (CIE): Two CIEs are conducted during every semester. Final assessment marks are awarded as per university guidelines. These tests will prepare the students for the university examination.

Continuous Laboratory assessment: At the end of each laboratory session, laboratory test conduction and evaluation are done as per the rubrics. This test will enhance the confidence of students to face university practical examinations.

Project evaluation: Evaluation is done in phases by a department research committee.

End Semester Examination: University conducts both theory and practical/project examination as per the calendar of events announced. Evaluation and declaration of results is done by the university with a scope to apply for revaluation.

Assessment Tools

The evaluation of the Course Outcomes (COs) involves the use of both direct and indirect assessment tools, with greater weightage assigned to the former. Specifically, 90% weightage is given to direct assessment tools, which include both internal assessments and external assessments. Meanwhile, indirect assessment tools are assigned a weightage of 10%. CO is assessed through a combination of direct and indirect methods.

Fig 8.4.1.1.: Assessment tools and Weightage

Direct Assessment Tools:

To assess the attainment of Course Outcomes (COs), a range of assessment tools are used at different intervals throughout the course. Table 8.4 presents a comprehensive overview of these assessment tools, including the frequency at which they are administered. By utilizing a variety of methods to evaluate learning outcomes, course teachers can gain a more complete understanding of students' knowledge, skills, and ensure that the curriculum is meeting the desired standards.

Table 8.4 **Assessment Tools**

Sr. No.	Assessment Tool	Description	Evaluation of Course Outcomes	Related PO & PSO	Frequency of Assessment
Internal Assessment Tools					
1	Assignments	Set of question to solve	Questions in the assignment are mapped against two CO of the respective course.	Corresponding mapped POs/PSOs with the COs	For each assignment
2	Project Presentation	Progress Presentation	Presentations are mapped with CO of course.	Corresponding mapped POs/PSOs with all COs	For each project group
3	Quizes	Online MCQ	Questions in the quiz are mapped against the CO of respective course.	Corresponding mapped POs/PSOs with all COs	For each quiz
4	Continuous Internal	Written examination	Questions in the exam are mapped	Corresponding mapped	For each CIE

			against COs corresponding to the first three units of the respective course.	POs/PSOs with all COs	
	Evaluation (CIE)				
5	Term Work	Based on the continuous assessment during regular sessions	Based on the COs mapped with the experiments / Assignments	Corresponding mapped POs/PSOs with the COs	On end of term

			External Assessment Tools		
5	End Semester Examination	Written examination	Questions in the exam are mapped against COs corresponds to complete syllabus of respective course	Corresponding mapped POs/PSOs with all COs	On end of term
6	POE	Based on the experiments / assignment performed during practical session	Based on the COs mapped with the experiments / Assignments	Corresponding mapped POs/PSOs with the COs	On end of term

Indirect Assessment Tools:

• Course Exit Survey.

• A course exit survey is a feedback tool used to gather information from students at the end of a course. Its purpose is to assess the effectiveness of the course.

• Typically administered in the final week of the course, the survey covers course content in the form of CO statements. To be effective, course end surveys are well-designed and focused on relevant and meaningful questions. Course teachers carefully analyze the results of the survey and make necessary changes to their course design and teaching methods based on the feedback received.

• The weightage assigned to the indirect assessment tool in CO attainment highlights its importance in evaluating the effectiveness of the course design and teaching methods. By using this feedback to make informed decisions about course improvements, Course teachers ensure that future iterations of the course are even more effective in helping students achieve their learning goals.

8.4.1. *Record the attainment of Course Outcomes of all first year courses. (5)*

Following Procedure is followed for the assessment of attainment of COs through internal assessment marks and end semester marks.

Evaluation of CO Attainment:

The evaluation of course outcome (CO) attainment by assessment tool involves a systematic process of collecting and analyzing data to determine the extent to which the course objectives have been met.

The following steps are taken for this evaluation:

a) Choose an appropriate assessment tool: There are various internal and external assessment tools that are used. The choice of tool is aligning with the objectives and course outcomes of the course.

b) Determine assessment criteria: The assessment criteria are clearly defined and communicated to students. This will help to ensure that students understand what is expected of them and how their performance will be evaluated.

c) Administer assessment: The assessment tools are administered in a fair and consistent manner.

d) Analyses results: The results of the assessment should be analysed to determine the extent to which the course objectives have been met. This analysis should take into account the strengths and weaknesses of the students and the course. This analysis can be used to inform future instructional strategies and to improve the course content.

e) Evaluate the effectiveness of the assessment: It is important to evaluate the effectiveness of the assessment to determine if it has been successful in achieving its intended purpose. This evaluation may involve soliciting feedback from students or conducting a review of the assessment process Internal assessment tools consist of Test, Assignment, Continuous to evaluate CO attainment level.

Following Procedure is followed for the assessment of attainment of COs through internal assessment marks and end semester marks.

Setting of attainment levels

Attainment levels for Course Outcomes (COs) are a measure of students achievement in meeting the course objectives. These levels are assessed using a variety of tools, and the attainment level may be stated as a percentage of students expected to achieve a certain threshold of marks. The attainment level is then measured as the actual percentage of students who meet or exceed the set threshold. For every course attainment level is varied depending upon difficulty of subjects.

For example the defined attainment levels for subject are;

Attainment Level 1: Average students, scoring 40 % to 45 % marks out of the relevant maximum marks.
Attainment Level 2: Average students, scoring 46 % to 60 % marks out of the relevant maximum marks.

Attainment Level 3: Average students, scoring more than 61% marks out of the relevant maximum marks.

Step 1: Course Outcome attainment levels:

The CO attainment levels are set for each course .For every course attainment levels are set by teacher depending upon difficulty level of subject. Accordingly the target levels for CO attainment are set.

Step 2: Criteria for setting and improvement of the target levels:
For every course the target level for an assessment year is set on the basis of the target achieved in the previous year.

Step 3: Weightage and CO attainment achieved:

As per the University curriculum, the total marks for the theory courses is 100, which is split into 70 marks (70%) for University examination and 30 marks (30%) for Continuous Internal Assessment. Accordingly the weightage adopted for the program are:

50% weightage for University examination and

50% weightage for Internal assessment.

The Course outcomes attained through Internal Assessment and University examinations are calculated and same is presented in Table 8.4.1.1

Course Outcome attainment Target levels for all first year courses 2022-23

Table 8.4.1.1: Assessment target for Course Outcomes Evaluation (2022-23)

	Course outcome Attainment			
Sl.No	**Assessment Method**	**Maximum Marks**	**Course outcome Target**	
			Percentage	Marks
1	Continuous Internal Evaluation(CIE)	30	40%	12
2	Semester End Examinations(SEE)	70	40%	28
3	Lab Assessment(Internal)	25	40%	10

Set attainment level for above course outcomes targets are:

Attainment Level 1: Average students, scoring 40 % to 45 % marks out of the relevant maximum marks.

Attainment Level 2: Average students, scoring 46 % to 60 % marks out of the relevant maximum marks.

Attainment Level 3: Average students, scoring more than 61% marks out of the relevant maximum marks.

Table 8.4.2: Attainment of Course Outcomes of all first year courses for the academic Year
CAY 2022-23

		Attainment of Course Outcomes [2022-23 Batch]		
		CO Attainment of 1st year course		
Sr No.	**CourseCode**	Title of the Course		F.Y.
1	C-101	Engg. Physics		2.19
2	C-102	Engg. Maths-I		2.77
3	C-103	Basic Electrical Engineering		2.47
4	C-104	Basic Civil Engineering		2.93
5	C-105	Engineering Graphics		2.15
6	C-106	Professional Communication-I		1.76
7	C-107	Engg. Chemistry		2.93
8	C-108	Fundamentals Of Electronics & Computer		2.30
9	C-109	Applied Mechanics		2.73
10	C-110	Basic Mechanical Engineering		2.60
11	C-111	Engg. Maths-II		2.77
12	C-112	Professional Communication-II		2.27

| 13 | C-113 | Workshop Practice-I | 3.00 |
| 14 | C-114 | Workshop Practice-II | 3.00 |

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

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

Figure 8.5.1: Results of evaluation of each relevant PO
PO attainments of First year courses of three assessment years

Course-PO Matrix[2022-2023] - ISE												
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	P09	PO10	PO11	PO12
C-101 Engg. Physics	2.19	2.19										
C-102 Engg. Maths-I	2.76	2.76	1.84									
C-103 Basic Electrical Engineering	2.47	2.47	2.19			2.47				2.44		
C-104 Basic Civil Engineering	2.5	2.43	2		1.9					1.9		
C-105 Engineering Graphics	2.2	2.2	2.2	2.2								
C-106 Professional Communication-I					1.35				1.9	2.35		0.96
C-107 Engg. Chemistry	2.93	2.93	2.73	2.93		2.93				2.93		
C-108 Fundamentals Of Electronics & Computer	2.58	1.84	2.3		1.79							
C-109 Applied Mechanics	2.73	1.86	1.8	1.47		2	1.8	1.8	1.4	1.8	1.4	1.82
C-110 Basic Mechanical Engineering	2.6	2.6	2.75									
C-111 Engg. Maths-II	2.76	2.76	1.84									
C-112Professional Communication-II					2.35			2.25	2.35	2.12		
C-113 Workshop Practice-I	2.47					2.47	2.47					
C-114 Workshop Practice-II	2.47					2.47	2.47					

Actual AveragePO Attainment												
	2.56	2.4	2.18	2.2	1.85	2.47	2.25	2.03	1.88	2.26	1.4	1.39

Over all Attainment											
Expected Attainment	2.44	2.33	1.65	1.75	2	1.78	2	2	1.82	2.26	1.4	1.3
Actual Average Attainment	2.56	2.4	2.18	2.2	1.85	2.47	2.25	2.03	1.88	2.26	1.4	1.39

8.5.2   *Actions taken based on the results of evaluation of relevant POs (5)*

PO Attainment Levels and Actions for improvement for CAY (2022-23) Mention for relevant POs.

CAYm1 (2022-23)			
POS	**Expected PO Target Level (Avg)**	**Attained PO Target Level (Avg)**	**Observations**
PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an Engineering specialization to the solution of complex engineering problems.			
PO1	**2.44**	**2.56**	PO Attained: Tutorial sessions for the courses on mathematics were enhanced
Action 1:) Plan to give assignments to all courses e.g Physics, Applied Mechanics etc.			

PO2: Problem analysis...			
PO2: Problem analysis: Identify, formulate, review research literature, and analyse complex engineeringproblems reaching substantiated conclusions using first principles of mathematics, natural sciences, and Engineering sciences.			
PO2	2.33	2.40	PO Attained: Seminars were organized using resource persons from other engineering colleges.
Action 1. Plan to take more mini projects on engineering and natural sciences.			
PO3: Design/development of solutions: Design solutions for complex engineering problems and design systemcomponents or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.			
PO3	1.65	2.18	PO Attained: More interactive sessions were arranged by professionals from various industries in order to expose the industrial / societal problems.
Action 1: Plan to give expert sessions on these to study the latest scenario of the environment.			
PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including designof experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			
PO4	1.75	2.20	PO Attained : Project Based Learning on research were conducted

Action 1: Plan to conduct more Project Based Learning researches

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of thelimitations.

PO5	**2**	1.87	PO Attained: C - programming course were conducted

Action 1: Plan to conduct more software programmes.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO6	1.78	**2.36**	PO Attained: Students were participated in cultural events.

Action 1: Plan to allow students to participate in extracurricular activities like blood donation , societal awareness programmes etc.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in Societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO7	**2**	2.25	PO Attained : Students participated in poster presentation on environmental issues like pollution, deforestation etc.

Action1: Plan to organize more environmental awareness programmes by applying engineering solutions

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice

PO8	2	2.03	PO Attained :Induction programme on ethics were conducted

Action 1: Plan to conduct professional skill course on Ethical and Moral responsibility.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse Teams, and in multidisciplinary settings.

PO9	1.82	1.88	PO Attained: Students participated in various technical and non-technical events, in house as well outside colleges.

Action 1: Motivating them to participate in the events at state and national level.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and designdocumentation, make effective presentations, and give and receive clear instructions.

PO10	**2.26**	**2.26**	PO Attained: Students actively performed the activities like speech, extempore , report writing presentations etc.

Action 1. Guiding them to participate in intercollegiate events

PO11: **Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projectsand in multidisciplinary environments.			
PO11	**1.4**	**1.4**	PO Attained: Participated in PBL
Action1: Guiding for more participation on PBL, mini projects. etc.			

PO12 : **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.			
PO12	**1.3**	**1.39**	PO Attained: Faculty guided about the importance of lifelong learning
Action1: Plan to conduct guest lectures on the subjects. . **Action 2:**Encouraging them to participate in various clubs under lifelong learning			

CRITERIA 9
Student Support Systems

Criterion 9	Student Support Systems	50

9. STUDENTSUPPORTSYSTEMS(50)

9.1.Mentoring System to help at Individual level(5)

A. Details of Mentoring System that has been developed for the students for various purposes and also state the efficiency of such system:

1. Mentoring System

Our institute has institutionalized the Tutor- Mentor system since many years. In the system the student is termed as **ward** and the faculty member as **Proctor**.

The Issues being discussed:

- Academics (regarding the status of classes, attendance, course progress, difficulties in understanding the subjects of study, registration, marks etc.)

- Career (issues relating to placement / higher studies / entrepreneurship)

- Emotion (issues relating to anyone in family/friends or a person whom he/she gives the utmost importance, quarrel/misunderstandings, money, recent happenings etc.)

- Discipline (altercations/fights, threats, bunking, fines, complaint from the hostel/teachers etc)

- Grievances (regarding any problem faced by the student during and/or after the classes which may not be addressed properly)

- Any other issue(s) not coming under the above categories.

The role of the faculty as a mentor (Proctor) is one of nurturing and providing support for a student during the transition period in academic, professional as well as personal augmentation. In all departments of the Institution, mentoring is a continuous process where faculty mentors serve as a resource who will respond to many questions, trivial or complex, that the student might pose; support students in choosing course work that meets their needs and interests; encourage students to actively participate in seminars and laboratory work that are realistic in scope; and counsel the students on any other academic, professional, personal growth, etc., for necessary advice/guidance/help.

Role of a Mentor:

- Each faculty acts as a mentor in the counseling & mentoring process.

- A mentor is responsible for guiding about 15 to 20 students of a class depending on class strength.

- To conduct the meeting once in the month within department and maintain the minutes.

- Monitor the records of absentees, problems/issues

- Explains to students the academic rules and regulation.

- Examines the results of the students and counsel for poor results within a week after the results is published.

- Communicates with parents of students to discuss students' performance, any attendance issues and future plan.

- Gives specific guidance to students in the emotional or personal/General issues.

- To help the student to overcome their weaknesses and strengthen the abilities to excel in his/her defined objectives.

- In the mentoring sessions, students raise their difficulties/problems regarding academics/general facilities/other facilities with their respective mentors.

- Gives guidance and information to plan for industry interaction.

- Reports Unresolved cases of students to HOD and if HOD require further attention to resolve the issue, the unresolved cases can be brought to the attention of higher authorities.

Post Mentoring process:

1. Minutes of proctor meeting are submitted to Head of the department by each proctor.

2. Head of the department prepares the common report and forward it to chief Proctor co-ordinator.

3. Chief proctor prepares consolidated reports from all departments and submit to head of institution.

4. The issues at department level are resolved by HoDs wherein central issues are taken care by head of the institution.

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.	Placement's 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 behavioral traits

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

A Methodology being followed for analysis of feedback and its effectiveness:

Feedback collected for all courses: YES (Twice a year)

Average Percentage of students participate in the feedback process: 80-90%

The feedback form is designed to collect information on the curriculum, attributes of teachers and their teaching learning methodologies and effectiveness of the methodology.

Feedback has following processes:

--Feedback collection

--Feedback Analysis

--Corrective measures

Feedback is collected at various levels:

1. Through Course Monitoring Committee (CMC) at department

2. Through Online mode through ERP by department

3. By IQAC in online mode

4. By Dean Academics and Principal

9.2.1 Feedback Collection Process:

The institute has a well-defined process for feedback collection with respect to all the courses, which is required to ensure continuous improvement and refinement of teaching learning process and curriculum.

The detail of feedbacks collected from the students and the process of collection is given below.

Type of feedback collected	Feedback on Curriculum, Teaching & learning
Process of collection	Online /Offline/Oral submission
Frequency of collection	Once in a semester
Department responsible for collection, analysis and action taken	Respective department/IQAC

To enhance the teaching learning process and enrich the academic performance feedback is collected manually or online from the all stakeholders of the institute at department level and centrally.

A) Feedback collected by the Department

1. **Through Course Monitoring Committee:**

--To improve the teaching-learning process every class has Course Monitoring Committee

(CMC)

--It consist of HOD, Academic Coordinator, and the class coordinator of respective class,

and student representatives.

--Monthly CMC meetings are conducted to collect feedback from students

--Every teacher will be informed about the issues if any .

--Dean Academics will collect the CMC reports of all departments .

2. **Through ERP system**

--Students feedback about teaching a course is taken in a semester through the ERP system.

--Turn-1 feedback is taken after the first 30 to 40 days of teaching. Corrective actions are taken after this feedback.

Following questionnaire is set for feedback.

Q.1	Has the teacher given you the lesson plan for the entire semester in the first week of teaching?	Yes/No/ Don't Know
Q.2	Has the teacher given you question bank for the forthcoming class- test, in advance?	Yes/No/Don't Know
Q.3	Does the teacher conduct the class exactly as per the time table?	Always/Manytimes/some times
Q.4	Does the teacher engage all classes regularly?	Always
Q.5	How is the handwriting / drawing of the teacher on the blackboard?	Good
Q.6	Does the teacher interact with you in the class?	Always
Q.7	Is the teacher audible in the class?	Verymuch/ ok/ poor
Q.8	Does the teacher explain the concepts to you properly?	Always
Q.9	Has the teacher completed lessons as per the plan given to you?	Yes/No/ Don't know
Q.10	How do you rate his / her teaching?	Good/ Average/ Poor

--Analysis of Collected online feedback by Calculation of Performance Index (PI)

--The first column of answers to each question has 5 marks, middle column 3 and last column 1

--If a teacher gets 5 out of 5, then his/ her performance (the satisfaction of the student) is 100%,

however if he/she gets 3, it will be 60%.

--Average of performance of a teacher for all 10 questions will be his/her overall Performance

Index (PI), for a student.

B) Feedback collected at central level:

The Committee consisting Principal and Academic Dean collects feedback from students per semester for all courses. And they discuss the issues if any with respective HOD.

Parameters considered for oral feedback are:

1. Planning & Organization

2. Presentation/Communication

3. Students Involvement

4. Use of Media/Methods

5. Class Management

C. Feedback collected by Internet Quality Assurance Cell(IQAC)

Sample form is shown below,

Name of the student:

Department:

Class:

Academic Year:

Kindly rate the metrics from 1 to 5.

1-Not Agreed, 2 - Partially Satisfied, 3 – Satisfied, 4 – Agree, 5 – Strongly Agreed)

Sr. No	Particulars	Marks
1	Howwillyouratethedistributionofthecontacthours(Lecture–Practical–Tutorial) among the course components	
2	How do you rate the organization of the courses in the curriculum?	
3	How will you rate the activities (Augmentation courses, VAC, GuestLecture,andIndustrialVisit)organizedhelpedtobridgethegapbetweenacademic and industrial needs.	
4	Howwillyouratetheassessmentpatternofthecourse(Examination-CIE-I,CIE-II, University exam)	
5	Electivesofferedinthecurriculumareinrelationtothetechnologicaladvancements	
6	Experiments in the lab courses are related to the real life/time applications	
7	Howdoyouratethebookslistedasreferencematerialsarerelevant,updated and appropriate?	
8	Isthecurriculumsufficienttomakeyouanalyzeengineeringproblemsand its suitable solution	

9.2.2 Feedback Analysis Process

--All the parameters mentioned in the feedback form are analyzed by CMC, IQAC and academic Dean.

--Course related feedback form analysis is done at department level and central level.

--Difficulties in course understanding are solved by required actions like expert lectures, innovative concepts etc.

--Following is the sample report of analysis of curriculum feedback

Sr. No	Particulars	1– Not agreed	2 - Partially Satisfied	3 – Satisfied	4 – Agree	5 – Strongly Agreed
1	How will you rate the distribution of the contact hours(Lecture – Practical – Tutorial) among the course components	3.658537	1.219512	13.41463	42.68293	30.4878
2	How do you rate the organization of the courses in the curriculum?	6.097561	1.219512	10.97561	35.36585	36.58537
3	How will you rate the activities (Augmentation courses, VAC, Guest Lecture, and Industrial Visit) organized helped to bridge the gap between academic and industrial needs.	6.097561	4.878049	14.63415	36.58537	32.92683
4	How will you rate the assessment pattern of the course(Examination- CIE-I,CIE-II, University exam)	4.878049	3.658537	13.41463	30.4878	37.80488
5	Electives offered in the curriculum are in relation to the technological advancements	4.878049	4.878049	13.41463	37.80488	31.70732
6	Experiments in the lab courses are related to the real life/time applications	3.658537	4.878049	13.41463	40.2439	29.26829
7	How do you rate the books listed as reference materials are relevant, updated and appropriate?	3.658537	3.658537	9.756098	41.46341	31.70732
8	Is the curriculum sufficient to make you analyze engineering problems and its suitable solution	3.658537	0	12.19512	41.46341	29.26829

B. Record of corrective measures taken

--Based on the consolidated feedback reports the faculty members are appraised about their performance.

--The faculty members who follow good and innovative teaching pedagogies are appreciated

--Necessary corrective actions are taken for the faculty members who score less than the institution standard, are followed as given below.

1) Head of the department advise the faculty about handling and monitoring the class.

2) Encouraging faculty to attend more seminars, workshops and Faculty Development Programs (FDPs).

3) Suggestions are given to enhance their academic skill set with the peer support within a stipulated time period.

The performance is reviewed by the head of the department regularly.

9.3. Feedback on facilities(5)

A) Feedback Collection, analysis and corrective action

A standard procedure of feedback on facilities demonstrates a commitment to excellence in the planning and provision of services across different departments of the institute. The feedback is collected from the students on the facilities available in the Institute such as class room infrastructure, library, laboratories etc. The feedback on facilities is taken up as per the following steps:

1) Feedback collection
2) Feedback analysis
3) Corrective measures

Feedback Collection:

A formal feedback is gathered, at least once during every semester, about the use and satisfaction with a variety of facilities and services which are categorized as

1) General Facilities &Services
2) Technology Services
3) Specialized Services

Following steps are executed for the feedback collection:

1. Prepare Feedback question on 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 department also conducts feedback from different stake holders like Parent, Teachers, Alumini and in proctor meeting as well .
4. Central Library collects feedback from students per semester.
5. Analyze the feedback using the Metrics as: 1 - Not Agreed, 2 - Partially Satisfied, 3 – Satisfied ,4 – Agree ,5 – Strongly Agreed
6. Additional suggestion box is given in feedback for the students to share any view points as their perspective.

Following questions are included in feedback

1	Number of the hours and credits allocated to the courses are appropriately in all semesters
2	Scope is provided for improvement in teaching practice using modern pedagogy tools
3	The books prescribed/listed as reference materials are adequate and map onto the syllabus.
4	Classrooms are equipped with LCD projectors to facilitate teaching and learning.

5	Are the laboratories properly maintained for healthy teaching and learning
6	Dothelabspossessallthenecessarysoftware/testingmaterials/equipment'stoco verthesyllabus?
7	The Seminar Halls are well spaced, well equipped and well maintained.
8	All the Computer labs are easily accessible as and when required?
9	Library and Canteen facilities are appropriate.
10	There is cleanliness and proper maintenance of classrooms/ washrooms/ common areas.

Feedback Analysis Process

1. All the parameters mentioned in the feedback form are analyzed.

2. Facilities related feedback form analysis is done by Department, IQAC and report is forwarded to higher authority for further action.

Corrective Measures:

1. A proctor and IQAC submits the analysis report to HOD for immediate attention towards a problem and the necessary actions are taken by the HOD or HOD informs about the problem to the higher authority.

2. The modifications required are suggested by the department head to the principal and necessary requirements are fulfilled.

9.4. Self-Learning(5)

Self-Learning: It is a process by which individuals take the initiative, with or without the assistance of others, in diagnosing their learning needs, formulating learning goals, identifying human and material resources for learning and evaluating learning outcomes.

A)   Scope of self-Learning-

Self-learning is the method of gathering, processing, and retaining knowledge without the help of another person. Any knowledge you get outside of a formal educational setting, such as through self-study or experience, is self-driven learning.

As the world gets more competitive, knowing how to educate yourself gives a significant advantage. You can learn to grasp complex subjects, move with the times, and gain other benefits of self-learning like: Increasing competence, growing confidence, Increasing awareness and Better quality of life.

Students can assess the current situation and decide the best, credible resources to start learning journey. This may include free online courses from open online communities and platforms like Coursera and Udemy or MOOCs (massive open online courses) from higher education institutions specializing in your interest.

Start with the free resources and grow into buying or borrowing anything else you need. Invest your time and effort first before spending money on self-learning. Libraries are an excellent resource for this, online and offline.

B) Self-learning facilities

- Library
- Digital Library
- Professional bodies ,Student Clubs and departmental association activities
- Industrial visits
- Technical talks & workshops
- Language Lab
- Online resources
- Assignment

- Research Publications

- Wi-Fi enabled campus

- Availability of SWAYAM,NPTL platforms

- Internships

Sr. No.	Self-learning process	Description
1	Library	· The college library is enriched with vast collection of books, journals, periodicals, research articles, Proceedings, Journal Bound Volumes, GATE Preparation Books, Dictionaries and Encyclopedias of subjects..
2	Digital Library	· Thelibraryisequippedwith15systemswithinternetfacility. · We have developed a well-equipped Digital Library with 15 computers to provide access to electronic resources such as e-journals, e-books, digitized question papers etc. The students and faculties can search, browse, download or print the article from e-journal or apportion from e-book, subject to copyright restrictions.
3	Professional Bodies, Student Clubs, other Association activities	· It is one of the most important section in student career. · Various technical and Non-technical activities are conducted for the overall development of the student. College is a registered member of following professional · bodies. · ISTE, CSI, Institution of Engineers India (IEI) & IEEE, ISHRAE. · Student clubs like Book club, Cultural Club, Music Club, Coding Club, TPC club, SORT etc. are available. · Each department this their own student organizations.
4	Industrial Visits/ Internships.	· It is being organized to give more practicalexperience aboutcompanies and to get insightregarding the internal working environment of aindustry. It helps students to gain first-handinformation regarding functioning of the industry.It Provides an opportunity to plan, organize · andengageinactivelearningexperiencesbothinsideand outside class room. · Assist them for future placement. .

5	Technical Talks & workshops	· A Technical Talk is a group meeting led by an expert that focuses on specific topic or discipline such as emerging technologies and job opportunities. · Attending Technical Talks will have numerous benefits to a student for improving communication skills and gaining domain knowledge. · Technical Talks are conducted frequently at the department level and offer students to interact with industry experts, research persons, entrepreneurs and small business partners. · Workshops allow a student to further develop market able business and technical skills in a focused interactive environment.
6	Assignments /Tutorials	· It enables students to go through the topics in a more elaborative manner in order to explore the academictopic, which lead to an overall better learning experience. · It help the students to understand the subject in a more detailed pattern. · Faculty give assignments/Tutorials on regular basis and they are assessed.
7	Language Lab	· Technical English software has been installed in the Language lab. · Students and Staff make use of this lab for improving there communication skills.
8	Web based learning .	· The internet is an open information system in whichvarious sources of information, media and materials such as text, images, video sequences can belinked together in diverse ways to form so called self-learning environment. · Institute has provided 300MBPS Wi-Fi facility to provide hassle free internet facility. · Students use Wi-Fi facility which offers new possibilities to structure, represent, adapt and integrate various learning content and materials.
9	Research Publications	· Expands the knowledge of students in various fields and increases visibility, credibility andcompetitiveness of students. Helps in presenting papers in conferences

10	Online resources	· e-Books: www.k-hub.in (http://www.k-hub.in/) · DELNET: http://delnet.nic.in (http://delnet.nic.in/) · National Digital Library: · INFED (Shivaji University Kolhapur: www.idp.unishivaji.ac.in(http://www.idp.unishivaji.ac.in · /) SWAYAM, NPTLlike platforms

9.5. Career Guidance, Training, Placement (10)

DRJJMCOE offers career guidance, Training and placement on all aspects of career planning, job searching and post-graduate studies. College provides counseling for all the students towards reaching goals.

A:Availability of Career Guidance facilities(2)

The college has career guidance and placement cell with 9 full time staff members, headed by Head– Training. & Placement.

The team fine tunes the students by providing insights into the complex dynamics of the corporate world and the current critical industrial & business scenarios.

Campus Recruitment Training program grooms the students in various areas like Quantitative Ability, Verbal Ability, Reasoning Ability, Group Discussion, Personality Development, Attitude and Behavioral Development and Facing Interview.

Domain and technical training is provided based on the industry requirement.

Mock interviews and GDs are conducted on a regular basis to equip final and prefinal students to face the challenges of recruitment scenario. The placement cell organizes on-campus and off-campus recruitments.

In addition to the training conducted by the placement division the department organizes training on technical aspects like Data Structures, Java, C, C++ and Python.

The College has created the following infrastructure facilities to conduct training program and campus recruitment e.g. Office, Seminar hall, Rooms for Group Discussion, Interview Rooms, Computer Centers for Online Test.

The college also has a placement committee that ensures that the needs of the students belonging to different branches of engineering are addressed and all are given equal opportunities.

B: Counseling for Higher Studies (GATE/GRE, GMAT etc.) (2):

Expert Lectures

Expert Lectures by the Industry Persons, Alumni, HR regarding Career guidance, opportunities in the Industry organized.

Higher Studies

One of the primary role of the Higher Studies Cell is to provide guidance and counseling to students about the higher education opportunities available in their field of engineering.

It ensures that students are well-informed about various postgraduate programs, research opportunities, and career paths available to them.

By observing the various needs of students pursuing higher studies, the cell not only contributes to individual growth but also plays a pivotal role in promote the overall standards of the institution.

Also higher studies cell informed to the students about the available scholarships financial aid opportunities for higher studies. It helps to avoid financial barrier of economical weaker students and encourage worthy students to pursue higher education.

Higher studies cell keep informed to the students about the exams, application deadlines, and required documentation.

An MOU was signed between Dr. J.J. Magdum college of engineering and Path Seeds, Gate Tutor and Mahalaxmi Academy

Sr. No.	Industry/Academy Name	Title of Session	Type	Date
1	Mahalaxmi Academy	Counselling session for MS	Counselling session	19/01/2024
2	AECC, Pune	GRE Mock and discussion	Mock Test	26/10/2023
3	ACE Academy, Hyderabad	Gate Exam and opportunities	Expert Talk	14/09/2023
4	AECC, Pune	Career path in Abroad Education	Expert Talk	07/09/2023
5	Abroad XEdtech	Career development opportunities	Expert Talk	15/11/22
6	GateTutor	Introduction of Gatetutor	Online	8/10/2022

7	ACE Engineering	Gate Exam importance and opportunities	ExpertTalk	12/04/2022
8	Path Seeds	MoUSigning	MoU	8/3/2022
9	GateTutor	MoUSigning	MoU	10/03/2022
10	IMS, Pune	Scope of MBA	Webinar	25/02/2022
11	Gate forum, Kolhapur	MockTestGate22	MockTest	04/02/2022
12	Path Seeds	Abroad study opportunities and process	Webinar	10/01/2022
13	Sparachen Institute	Opportunities for higher studies	ExpertTalk	23/11/2021

Table: Activity Details of higher studies

No. of students for Higher Education	2021-22	2022-23
MS/ M Tech	06	06

Table: No. of students opted for Higher Education

3) Competitive Examination:

Eminent / Successful candidates are invited at department as well as college level to address and enlighten students on various competitive exams like MPSC,UPSC etc. , career opportunities and promising areas / avenues to be chosen as career option.

Students are trained for skills / competencies required to pursue their career.

C: Pre placement training (3):

Training Activities:

- Training and Placement cell of Dr. J.J. Magdum College of Engineering is always have made Soft Skill Training Mandatory to all the students.

- Training as additional subject in all semesters.

- Training through professional Partners.

- For the First Year and Second Year Students English Communication, Grammar Review, Writing Skills, E-mail writing, For Third Year Students Quantitative Aptitude Tests, Puzzles, Reasoning, Verbal Aptitude, Group Discussion. Resume Writing, For Final Year Students Mock Tests, E-mail writing, Group Discussion, HR / Personal Interview.

Technical Training:

Short term capsule training, tailor made or company specific Training for individual companies.

D: Placement process and support (3)

The Placement Activities will be generally having following parameters.

Eligibility & Registration

At our college, campus placement is a facility provided for the students. Students Needs to register for the placement drive. Registration is not compulsory. Students opting for higher education or Entrepreneurship are advised not to register for placement.

Students are informed to go through the Eligibility criteria, Job Profile, Service conditions etc.

Preparation of Students Details like personal details and academic details along with any course, certification or internship done.

Resume

Students are advised to read the announcements made, go through the company website and apply only if interested.

Students have to upload and submit their resumes on the registration link provided by the individual companies or TPO cell well before the deadline. Resume once submitted cannot be modified.

Pre-Placement Talks (PPT)

- Notices of the PPT will be published in the students groups well in advance. Students should be available 15 minutes before the scheduled start of the PPT. Students registered and interested in a particular company drive, can attend its PPT.

- Any clarification regarding salary break-up, job profile, place of work, bond details etc. shall be sought from the companies during PPT or interview

Attendance & Punctuality:

- A student who applies and gets shortlisted is bound to go through the entire selection process unless rejected midway by the company. Any student who withdraws deliberately in the middle of a selection process will be disallowed from placement for the rest of the academic year.

- Late comers for company test or Group discussion or Interview will not be allowed to appear for the selection process.

Discipline:

Students should maintain discipline and show ethical behavior in every action they take during the placement process. Any student found violating the discipline rules set by the company or defaming the Institute's name will be disallowed from the placements.

Job Offers

Placement Offers: The following rules are applicable to companies that make Placement Offers through the TPO Office. The offer of Placement by the company and its acceptance by the student shall be through TPO office only.

Once a student accepts a Placement Offer, he / she shall not attend the next placement drives.

Multiple Offers: Each student is eligible for one CORE and one NON-CORE job offer only.

Release of Offer: All companies are requested to release the Offer and hand over to TPO office after the completion of the recruitment session.

Offer Acceptance: The students should inform the acceptance/rejection of offer in said period.

The company shall be intimated of the offer acceptance/rejection within said period of time.

Offer of Job: Offers received from companies must be collected as per timings in circular / notice. The responsibility of going through the offer letter and taking actions therein such as submission of documents lies entirely with the student.

Second option is given to selected student if forthcoming offer is doubled the existing package.

Student Club

Students having Training and Placement Club which is very useful to develop leadership qualities amongst the students. It organizes various guest lectures, career oriented seminars, contest based on mock interviews.

9.6. EntrepreneurshipCell(5)

A) Initiatives -

        The Entrepreneurship Development Cell aims to nurture and inspire the young entrepreneurial brains of the Institute to peruse innovations, start-ups and entrepreneurship by creating a vibrant and conducive ecosystem in the Institute. We aim to empower Startups to grow through innovations & design in order to provide economic augmentation and employment opportunities.

Functions of the Entrepreneurship Cell:

● To organize Entrepreneurship Awareness Camps, Entrepreneurship Development Programs, Faculty Development Programs and Skill Development Programs in the Institute/institution.

●   To arrange interaction with entrepreneurs and create a mentorship scheme for student entrepreneurs.

● To disseminate knowledge and insights in entrepreneurial theory and practise through lectures activities and workshops.

● Be motivated to start their own companies after graduation or after a few years of gaining industry experience

B) **Data on Students benefitted:**

The cell polishes the entrepreneurial skills into a student needed to establish his/her ideas and vision into reality. It initiates programs and participation in activities creative in nature to transform ideas into solutions.

Technical sessions-

Sr. No.	Name of Activity	Date	Class	Department
1	One day workshop on "Innovation and project based Learning using moderns kills"	29th April2022	First Year	All Branches
2	MoU signed with SIBIC Incubation for start-up Activities	25-09-2022	-----	------
3	Workshop on "Innovation and Startup activities"	06-10-2022	Second Year	All Branches
4	Innovative Project Idea Presentations (Best five projects)	31-10-2022	Final Year	All Branches
5	Workshop on "Recent development in Robotics and project based Learning"	02-12-2022	First Year	All Branches

6	Workshop on "Recent development in Robotics and project based Learning"	06-12-2022	Second Year	All Branches

7	One day workshop on "Steps for startup innovation and design thinking"	18-01-2023	Final Year	All Branches
8	One day workshop on "Innovation and project based Learning using modern skills"	21-01-23	First Year	All Branches
9	Workshop on "Recent development in Robotics and project based Learning"	4-02-23	First Year	All Branches
10	Workshop on "Innovation and Startup activities"	06-3-2023	Second Year	All Branches
11	Project based Learning	29-4-2023	FY,SY	All Branches
12	Workshop on "Innovation and Startup activities"	26/10/2023	First Year	All Branches

Benefits for the students

- Become a leader- manage a student organization, illustrate abilities in planning, logistics, marketing, and advertising, create visibility for future employers.

- Build a network- make contacts with entrepreneurs, professionals and academics who can help with recommendations, network and start a venture withpeers.

- Initiate innovative activities- invite business leaders to campus, plan new and exciting events for students to kick-start learning about new industries and different aspects of business planning.

9.7. Co-Curricular and Extra-Curricular Activities(10)

The Institute strongly supports students in co-curricular and extra-curricular activities as the role of these activities is very crucial in the all-round development of the students. Institute always aims to have holistic development of students by providing opportunities to explore their interests, develop their skills and foster their personal growth. Each department has its student association and Professional chapters through which various technical and non-technical events are organized

like technical competitions, events such as quizzes, technical paper presentations, model making, and non-technical competitions. Such are integral parts of the educational experience. Students actively participate at various levels and win prizes continuously in all technical and non-technical events organized by other organizations also. Lectures by experts and alumni are organized for the benefit of students under co-curricular activities.

A) Availability of Sports and Cultural facilities:
Sports:

Sports at JJMCOE are played with much fervor and passion with an emphasis on regular exercise and physical fitness. The annual sports Ranbhoomi' is the most awaited event for students. Equal importance is given to sports and always encouraged to participate in various college, and university levels i.e. zonal, inter-zonal tournaments. The college provides sports facilities to create true sportsmanship and team spirit in students.

Table No: 9.7.1 Sports and Games Facilities

Sr.no	Name of the event	Mode of game
1	TableTennis	Indoor
2	Basketball	Outdoor
3	Volleyball	Outdoor
4	Kabbadi	Outdoor
5	Kho-Kho	Outdoor
6	Chess game boards	Indoor
7	Carrom	Indoor
8	Gymnasium	Indoor
9	Cricket	Outdoor

Table No: 9.7.2 Sports Activities under Shivaji University, Kolhapur zonal (2023-24)

Name Of The Student	Sports	University/state Level	Name Of The Award	Team /Individual	Year
Babar Pooja Popat	Volley ball	Zonal University	Participation	Team	2023-24
Patil Shena Ganpati	Volley ball	Zonal University	Participation	Team	2023-24
Pathan Shahin Hakeemasab	Volley ball	Zonal University	Participation	Team	2023-24
Awale Manali Sudhir	Volley ball	Zonal University	Participation	Team	2023-24
Sankapal Sanika Pandurang	Volleyball	Zonal University	Participation	Team	2023-24
Salunkhe Akshta Rajendra	Volley ball	Zonal University	Participation	Team	2023-24
Rode Shravni Vijaykumar	Volley ball	Zonal University	Participation	Team	2023-24
Karawade Shreya Atul	Volley ball	Zonal University	Participation	Team	2023-24
Patil Roshan Balvant	Basket ball	Zonal University	Participation	Team	2023-24
Kothari Sarthak Sudarshan	Basket ball	Zonal University	Participation	Team	2023-24
Chavan Vaibhav Rajendra	Basket ball	Zonal University	Participation	Team	2023-24
Gulmare Rudra Prashant	Basketball	Zonal University	Participation	Team	2023-24
Kachare Aditya Shankar	Basketball	Zonal University	Participation	Team	2023-24
Waijchal Varad Girish	Basket ball	Zonal University	Participation	Team	2023-24
Sid Aditya Santosh	Basket ball	Zonal University	Participation	Team	2023-24
Patil Mahesh Chandrakant	Basket ball	Zonal University	Participation	Team	2023-24
Chikhalkar Shrihari Sandip	Chess	Zonal University	Participation	Team	2023-24
Thorat Rajvardhan Dhanajiro	Chess	Zonal University	Participation	Team	2023-24
Umesh Nilkanth Anshul	Chess	Zonal University	Participation	Team	2023-24
Kaji Shabbir Yasmin	Chess	Zonal	Participation	Team	2023-24

		University			
Gaikwad Shreyash Santosh	Chess	Zonal University	Participation	Team	2023-24
Thipkurle Ashish Shashikant	Chess	Zonal University	Participation	Team	2023-24

Shaikh Ayeshasiddiqa Mehboob	Chess	Zonal University	Participation	Team	2023-24
Mane Gauri Ganesh	Chess	Zonal University	Participation	Team	2023-24
Mohite Saiddhrth Ulhas	Badminton	Zonal University	Particiation	Team	2023-24
Kazi Sayyadhahas Hussainbasha	Badminton	Zonal University	Particiation	Team	2023-24
Ashtekar Shantun Prashant	Badminton	Zonal University	Particiation	Team	2023-24
Pathan Shahin Hakeemasab	Badminton	Zonal University	Particiation	Team	2023-24
Pol Mansi Sudhakar	Badminton	Zonal University	Particiation	Team	2023-24
Awale Manali Sudhir	Badminton	Zonal University	Particiation	Team	2023-24
Mohite Saiddhrth Ulhas	Badminton	Inter Zonal University	Particiation	Individual	2023-24
Todkar Vaishnavi Umesh	Swimming	Zonal University	Particiation	Individual	2023-24
Parte Sudesh Machindra	Athletics, 400 & 800 mtr	Zonal University	Particiation	Individual	2023-24
Hajare Sumit Shivaji	Athletics 5000 & 10000 mtr	Zonal University	Particiation	Individual	2023-24
Ghodake Dhanashree Tanaji	Athletics	Zonal University	Particiation	Individual	2023-24
Awale Manali	Athletics	Zonal University	Particiation	Individual	2023-24
Rode Shravni Vijaykumar	Athletics	Zonal University	Particiation	Individual	2023-24
Birnale Kirtikumar Ashok	Cricket	Zonal University	Particiation	Team	2023-24
Bhosale Sahil Aarvind	Cricket	Zonal University	Particiation	Team	2023-24

Cultural Activities:

The Institute has an energetic cultural team to develop an understanding and appreciation of different cultures, languages and traditions. This fosters a sense of inclusivity and respect for diversity. 'Mrudhgandha is the Annual Social Gathering and is the most awaited cultural event of the student as it is the opportunity to showcase hidden talent and creativity beyond academics, fostering holistic development. The cultural committee every year organizes various events which involve teamwork, leadership, and coordination which are the most valuable skills for students. So overall cultural events enrich the college experience of the students and contribute the overall development.

Table No: 9.7.3 Cultural Activities Conducted by various Departments

Sr. No.	Name of Activities	Date of Activity	Name of Department	Year
01	Social Annual Gathering	20 & 21 / 02/2024	Cultural Committee	2023-24
02	Ch. Shivaji Maharaj Jayanti	19/02/2024	Cultural Committee	2023-24
03	Celebration of DANDIA	18/10/2023	Cultural Committee	2023-24
04	Ganesh Utasav	20/09/2023	Cultural Committee	2023-24
05	Engineers Day Celebration	15/09/2023	Cultural Committee	2023-24
06	Celebration Of Teachers Day	05/09/2023	Cultural Committee	2023-24
07	Dr. J. J. Magdum Death Anniversary	14/08/2023	Cultural Committee	2023-24
08	Teachers day celebration	05/09/2023	CSE	2023-24
09	Celebration of Dr. Babasaheb Ambedekar Jayanti	14/04/2023	CSE	2023-24
10	Engineer's day	15/09/2023	IT	2023-24
11	Teachers Day Celebration	05/09/2023	IT	2023-24
12	Hindi Din	14/09/2023	ETC	2023-24
13	Teachers Day	05/09/2023	ETC	2023-24

14	Debate competition/single	**06/09/2022**	Cultural Committee	2022-23
15	Rangoli Competition	06/09/2022	Cultural Committee	2022-23
16	Debate competition/Two persons	06/09/2022	Cultural Committee	2022-23
17	Organized event plastic free campus	28/01/2023	CSE	2022-23
18	Birth anniversary celebration of Swami Vivekananda and Jijau.	12/01/2023	CSE	2022-23
19	Celebration of Mahaparinirvan Din	06/12/2022	CSE	2022-23
20	Felicitation of ladies faculties under navratriustav	26/09/2022	CSE	2022-23
21	Engineers Day Celebration	15/09/2022	CSE	2022-23
22	Celebration Of guru Pournima	05/09/2022	CSE	2022-23
23	Lecture on Full tension to cool tension	29/09/2022	IT	2022-23
24	Celebration of Engineers day	15/09/2022	ETC	2022-23

NCC, NSS and other clubs:

NSS Activities:-

A strong unit of NSS of the Institute organizes various activities to develop the personality and character of the students through voluntary community service. The Institute has also adopted a few villages in nearby areas where the NSS team works as instrumental. The focus of activities are like energy saving, environmental protection, rural development, sanitation, conservation of natural resources, womens health etc. Volunteering and community service activities provide students with opportunities to give back to society and develop a sense of social responsibility.

Sr. No.	Name of Activities	Date of Activities Conducted	Year
01	Celebration of World Environment Day	5th June,2023	2023-24
02	Celebration of International Yoga Day	21st June,2023	2023-24
03	Celebration of Shahu Maharaj Jayanti	26th June,2023	2023-24
04	Celebration of Anna Bhau Sathe Jayanti	1st August,2023	2023-24
05	Celebration of Mahsul Week	3rd August,2023	2023-24
06	Tree Plantation Program at Dharangutti Tal-Shirol	5th August,2023	2023-24
07	Panchpran Oath under Meri Mitti Mera Desh Campaign	9th August,2023	2023-24
08	Celebration of Yuva Sawand	11th September,2023	2023-24
09	Celebration of Independence Day	15th August,2023	2023-24
10	Celebration of Ecofriendly Ganesh Festival	23rd September,2023	2023-24
11	Kalash Poojan Program under Meri Mitti Mera Desh Campaign	25th September,2023	2023-24
12	Celebration of "Ek Tarikh, Ek Ghanta, Ek Saath"Campaign..	1st October,2023	2023-24
13	Celebration of Mahatma Gandhi and Lal Bahaddur Shastri Jayanthi	2nd October,2023	2023-24
14	Celebration of National Unity Day	31st October,2023.	2023-24
15	Celebrating of Indian Constitution Day	26th November,2023	2023-24
16	Celebration of Mahaparinirvan Din	6th December,2023 .	2023-24
17	Celebration of The birth anniversaries of Rajmata Jijauand Swami Vivekananda	12th January,2024	2023-24
18	Celebration of National Voters Day	25th January,2024	2023-24
19	Celebration of Republican Day	26th January,2024	2023-24
20	Blood Donation Camp	14th February,2024	2023-24

Table No: 9.7.4 Regular Activities of NSS. (2023-24)

| 01 | NSS Special Camp at Jambhali Tal-Shirol for7days | 8th to 14th January, 2024 | 2023-24 |

Table No: 9.7.5 Special NSS camp at adopted village (2023-24)

Various Clubs:

      Club activities as extracurricular activities play a major role in the holistic development of the students. These club activities provide with opportunities to develop wide range of skill set among students. Club activities allow students to explore their interest, passion, and skills apart from the regular activities. Keeping this view in the mind the Institute initiated various clubs like Google Developer club, Coding Club, Environment Club, Cultural Club, Business Club, Music Club etc.to cater to overall development of the students like personal, social etc.

Sr. No.	Name of Club	Name of Activity	Date of Event
01	Google Developers group	Organized Technical Event	03/02/2024
02	Coding Club	Online quiz on C language	7/2/2024
		Online quiz on C++ language	19/08/2023
03	Music Club	Visit Malhar Recording Studio, Jaysingpur	02/03/2024
04	Business Club	Workshop on Startup Innovation and Design thinking	26/10/2023
		Expert session on Industry 5.0 and entrepreneur development	18/10/2023
05	SORT	Innovate Technical Event	29/02/2024
		Innospark	09/02/2024

Table No: 9.7.6 Various Clubs Activities

Annual Students Activities:

Institute strongly supports students in co-curricular and extra-curricular activities as the role of these activities is very crucial in the all-round development of the students. Institute always aims to have holistic development of students by providing opportunities to explore their interests, develop their skills and foster their personal growth.

Each department has its student association and Professional chapters through which various technical and non-technical events are organized like technical competitions, events such as sizes, technical paper presentations, model making, and non-technical competitions. Such are integral parts of the educational experience. Students actively participate at various els and win prizes continuously in all technical and non-technical events organized by other organizations also. Lectures by experts and alumni are organized for the benefit of dents under co-curricular activities.

Sr. No.	Name of Event/Activity	Date	Dept.	Year
01	WinterCrash2K24 National Technical Event	03/02/2024	CSE	2023-24
02	Inauguration of Google developers Group	03/02/2024	CSE	2023-24
03	IOTLINK project exhibition	19/10/2023	CSE	2023-24
04	OrganizedTechsoft2K23	15/09/2023	CSE	2023-24
05	Chandrayan3	25/08/2023	E&TC	2023-24
06	Techvision	30/03/2024	E&TC	2023-24
07	Robovedia	16/03/2024	E&TC	2023-24
08	Expert lecture by SaiCAD	17/3/2024	Civil	2023-24
09	Webinar on- Unlocking design excellence with 3DExperience platform & simulation using solid works	14/10/2023	Civil	2023-24
10	BIM for Civil Engineers	14/10/2023	Civil	2023-24
11	Expert session on "Engineers to Entrepreneurs"	15/9/2023	Civil	2023-24
12	Introduction to ISHRAE	5/9/2023	Civil	2023-24
13	Organized quiz competition on IT fundamentals	09/11/2022	CSE	2022-23
14	Organized inauguration ceremony of Coding club	10/11/2022	CSE	2022-23
15	Organizeddepartmentalevent"Sankalp2K23"under COMPESA	15/03/2023	CSE	2022-23

16	Organized National level event Ashwamedh collaborate with and COMPESA departmental event as CODE BASH	20/05/2023	CSE	2022-23
17	Android Development	12/12/2022	IT	2022-23
18	Coding Club	21/11/2022	IT	2022-23
19	CRACKER 2K22	13/10/2022	IT	2022-23
20	C and C++ programming Test	15/09/2022	IT	2022-23
21	Ashwamedh2k23	20/05/2023	E&TC	2022-23
22	HORIZON 2K22	23/11/2022	E&TC	2022-23
23	Coded Electronics	12/10/2022	E&TC	2022-23
24	ETESAFEST2K22	29/09/2022	E&TC	2022-23
25	Quizika2k22	15/09/2022	E&TC	2022-23
26	Organized coding competition "CODETECH"	10/02/2022	CSE	2021-22
27	Celebration of NGO & science day	28/02/2022	CSE	2021-22
28	Recent trends in IT Industry	27/04/2022	IT	2021-22

Table No: 9.7.7 Technical Events/Activities organized by Students organization

Sr. No.	Topic	Resource Person	Date of event	Name of Department	Year
01	Cyber Security	Ms. Vanshree Akkalkot Domain Computer Sangli	28/02/2024	CSE	2023-24
02	Real Time Application of NLP	Dr. P. J. Kulkarni	14/02/2024	CSE	2023-24
03	Implementation of pointers and structures in C language	Ms. S. S. Satpute Assistant Professor SCES Smt Kashibai Navale College Of Engg. Vadgaon, Pune	27/10/2023	CSE	2023-24
04	"Project Life Cycle and Project Management"	Mr. Satish Sitaram Bharadwaj	16/09/2023	CSE	2023-24
05	"Basic Financial Concepts"	Mr. Malagouda J. Mukund, Assistant Professor, Ideal Institute of Management, Kondigre.	13/12/2023	IT	2023-24
06	"File handling in C"	Mr. Kedar Kulkarni Software Developer, An Ar Solutions Pvt Ltd, Pune.	30/11/2023	IT	2023-24

07	"Web mining & Advanced transaction processing"	Mr. Umesh Annegirikar Application Lead, ATOS Eviden Ltd., Pune.	27/10/2023	IT	2023-24
08	"Linker"	Mrs. A. G. Shahane DKTE, Ichalkaranji.	16/10/2023	IT	2023-24
09	Recent applications of NLP	Dr. P. J. Kulkarni, RIT Islampur	14/02/24.	E &TC	2023-24
10	Electronic Wave Shapers	Mr. Shrirang S. Pandit, Executive Director, SIR Einstein Academy, Satara.	02/12/23.	E &TC	2023-24
11	Recent Trends in Network and system'	Dr. S. S. Sankpal, Retired from DYPCOE, KOP	18/10/23.	E &TC	2023-24
12	SCADA Programming techniques	Mr. Ashwin S. Gadgil HEM Electronics, Miraj.	09/10/23.	E &TC	2023-24
13	Recent trends in Optical communication	Prof. Raste M. M. PVPIT, Budhgaon	25/08/23.	E &TC	2023-24
14	Guest Lecture (FM-II on Impact of Jet)	Dr. AR Thorvat	22/5/2023	Civil Engg.	2023-24
15	Webinar on-"How to write research or conference paper"	Dr. R Sugumar	1/5/2023	Civil Engg.	2023-24
16	Guest Lecture on "Career opportunities in Engineering"	ArjunChhabra (ACE Pune)	24/3/2023	Civil Engg.	2023-24
17	IEI Inauguration and expert lecture on career opportunities	S.B. Khot IEI Kolhapur centre	14/3/2023	Civil Engg.	2023-24
18	"Career opportunities in Civil Engineering"	Er. Swapnil Waghmode	13/3/2023	Civil Engg.	2023-24
19	Expert lecture on Tunneleng in eering	Prof. AB Khemlapure	21/12/2022	Civil Engg.	2023-24
20	Real time applications ofNaturalLanguageProcessing	Prof. P. J. Kulkarni Professor, RIT Islampur.	14/02/2024	AI &DS	2023-24

21	Expert lecture on" Introduction to	Prof. P. R Desai,	02/12/2023	AI &DS	2023-24

		JJMCOE, Jaysingpur			
	Deadlock and Synchronization"				
22	Exploring Network Devices and Components	Mr. R. S. Magdum, System Admin, JJMCOE	31/10/2023	AI &DS	2023-24
23	Expert lecture on "Implementation of pointers and Structures in C Language"	Prof. S. S. Satpute, SKNCOE, Pune	27/10/2023	AI &DS	2023-24
24	Guest lecture on "AI in Digital marketing"	Mr. Akshay A. Pujari, Shivam Creations	26/09/2023	AI &DS	2023-24

Table No: 9.7.8 Expert Lectures for Students

CRITERIA 10

Governance, Institutional Support and Financial Resources

CRITERION 10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120

10. GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

10.1 Organization, Governance and Transparency (40)

10.1.1 State the Vision and Mission of the Institute (5)

Vision:

> To be a leading academic organization creating skilled and ethical human resource by leveraging technical education for sustainable development of society.

Mission:

- To produce competent technocrats to meet modern societal and industrial challenges
- To create ethical and skilled human resources through quality education and various extension activities and outreach programs
- To leverage technical expertise to solve societal issues for its sustainable development

10.1.2 Governing body, administrative setup, functions of various bodies, service rules,procedures, recruitment and promotional policies (10)

The Governing Body

Dr. J. J. Magdum College of Engineering has well established organizational structure to execute out smooth functioning of administrative and academic processes. Various bodies are formulated which constitutes the organization chart. The governing body is the highest decision making body constituting members of the management, Principal and nominated faculty members. College Development Committee (formerly Local Management committee) includes representatives of members of society, Principal, three members elected from teaching faculty and one member of non-teaching staff.

The constituents of the organization structure are as follows: Every department has Department Advisory Board (formerly

Department Advisory Committee) to direct policies to excel students in academics and in work environments. It comprises one member each from industry, research establishment, and academic institute of repute, alumni, student, and parents and from management. The organizational structure of the institute is shown in attachment1:

"Board of Governors (BoG)"

- The "Board of Governors (BoG)" is the superlative administrative body of the college, It is constituted as per the norms given by AICTE, New Delhi.

- The BoG overseas the growth of the college and set the framework of governance and approves strategic set to achieve the mission and vision of the institution, long term academic plans and annual budgets in accordance to meet the desires of the stakeholders.

- The principal is appointed as Member secretory by BoG as system of control to monitor overall performance and ensure growth of the institute to higher level.

- The BoG ensures that the principal maintains accountability including financial & operational and risk assessment; and also set procedure for handling internal grievances.

- BoG monitors overall activities of the institutions performance as per approved plans and sets the benchmarks for future academic plans and research activities by providing direction of implementation wherever possible to ensure the achievement of the mission and vision of the organization;

- BoG approves the budgetary allocation , recruitment process that support the head of the institution for smooth execution of the programmes.

- Frequency of meeting of the BoG is minimum two times a year or whenever needed.

List of BoG members is shown in following table.

Sr. No.	Category	Name	Designation
1	Chairman (Trust)	Dr. Vijay J. Magdum	Chairman, Dr. J. J. Magdum Trust, Jaysingpur
2	Vice – Chairperson (Trust)	Adv. Dr. Mrs. Sonale Vijay Magdum	Vice – Chairperson, Secretary, Dr. J. J. Magdum Trust, Jaysingpur
3	Trust Nominees	Dr. H. K. Abhyankar (Ex Director, VIT, Pune)	Educationalist
4		Dr. N. B. Pasalkar (Former Director, DTE, Maharashtra)	Academician
5		Mr. Kishore Shitole (M/C Member, Dr. BAMU, Aurangabad)	Academician & Social
6		Mr. R S Kulkarni (GM, KPT, Jaysingpur)	Industrialist
7		Mr. Ajaysinh Desai	Industrialist
8		Dr. V. A. Raikar Former Vice Chancellor, SGU, Atigre	Academician
9		Dr. Sunil Admuthe	Campus Director
10	DTE nominee	Dr. D. V. Jadhav	Joint Director, DTE, Pune RO
11		Dr. M. S. Sutaone	Director,IIIT,Alahabad
12	University Nominee	Dr. V. R. Naik	DKTE, Ichalkaranji
13	Teacher Nominee	Dr. D. B. Unde	Professor
14		Prof. A. S. Sajane	Astt Professor
15	Member Secretary	Dr. Mrs. S. B. Patil	I/C Principal

Table .10.1.2.1: List of BoG members

Missing

Table 10.1.2.2 Sample Minutes of Meeting of BoG

COMMITTEE- GOVERNING BODY

MEETING No. - 01/2022-23.   DATE – 30th November, 2022

MINUTES OF MEETING

The meeting of the GOVERNING BODY of the DR.J.J.MAGDUCM COLLEGE OF ENGINEERING, JAYSINGPUIR was held on Wednesday the, 30th November, 2022 at 12.15 p.m. in offline mode. The following points/items were discussed as per the agenda.

ITEM No. : 01-

TO CONFIRM THE MINUTES OF THE LAST MEETING.

The minutes of the last meeting of the Governing Body were read-out by the Member Secretary. After noting, all the minutes were confirmed.

ITEM No: 02

TO DISCUSS PLANS FOR THE ACADEMIC YEAR,2022-23.

The matter of plans for the on-going semester-I (2022-23) was discussed. It was also discussed to carry-over routine academic smoothly and department wise activities for the Semester-I and Semester- II. IT WAS RESOLVED THAT,

1. AIDS and MCA courses to be started full-fledged with academic and extracurricular activities.

2. Proposal for continuation and extension of affiliation be submitted to Shivaji University, AICTE and DTE in time & status report be presented before this committee in next meeting. Also suggested that University Act 2016 must be revealed to get more information if any suggestive changes are given in accordance with affiliation related to MCA.

3. NAAC and autonomy should be completed at earliest.

ITEM No.: 06

TO TAKE NOTE OF STATUS OF PROPOSAL SUBMITTED FOR STUDENTS FEES REIMBURSEMENT AGAINST EBC, PUNJABRAO DESHMUKH HOSTEL SCHEME AND SOCIAL WELFARE, KOLHAPUR, 2022-2023

The scholarship section is looking reigoursaly documents submitted by students and accordingly submitting the details to scholarship section of Kolhapur Office and Income certificates must be verified at college end.

IT WAS RESOLVED THAT, the all forms should be scrutinized either offline or online and take a certain final look over the documents before submitting the proposals.

ITEM NO.:07

TO TAKE A NOTE ON ACTIVITIES EXECUTED IN AY 2021-22 AND PLANNING FOR AY 2022-23.

Principal took a note on all activities conducted for the students for the Academic year 2021-22. The future plans were discussed related to Value Added Courses, Quizzes and NPTEL lecture series. Minimum 02 titles should be done by students and faculties in reputed journals in this regard. The Campus Director, Principal & Member Secretary presented all details and submitted for approval sought thereof for 2022-23.

IT WAS RESOLVED THAT Induction Programs, Value added courses, Quiz and NPTEL series will be added in the Term work Policy of institution. So that it will enable students to go for proper techniques to present their ideas with the available resources in the institute.

ITEM No: 08

TO TAKE A NOTE ON STATUS OF NAAC.

The Member Secretary presented the current status of NAAC work and presented all reports. Two rounds of NAAC expert reports presented and were discussed. The Campus Director's instructions and notes were followed to improve the SSR report to be submitted.

IT WAS RESOLVED THAT, the matter is pursued at NAAC, AICTE and University level enabling to go for further process & status be reported in next coming meeting.

ITEM NO.9

TO TAKE A NOTE ON INTERNSHIP AND PLACEMENT DETAILS OF AY 2021-22 AND PROJECTIONS FOR AY 2022-23.

The Member Secretary presented all reports/evidences related to Internships done in last year of 2021-22.

SIBIC Labs are going to start from the academic year.

Placement coordinator presented the detailed placement scenario for 2021-22

IT WAS RESOLVED THAT, TPO should plan Pre-Placement activity

aggressively and should increase the placement in core branches.

ITEM No.:10

TO TAKE REVIEW OF ADMISSION STATUS OF AY 2022-23 AND DECIDE FURTHER STRATEGY OF THE DISCIPLINES WHERE LESS/ ON STUDENTS ADMITTED.

Admission status was presented by Member Secretary and congratulated by all members for accomplishing full admissions in circuit branches. For civil engineering, Dr. Raikar suggested getting more consultancies to enhance the admissions and try to elevate the major project of constructions at college end so that students will get an opportunity to get practical knowledge.

Mechanical Department admission- if faculties of mechanical department are not working in the positive directions to survive mechanical branch , apply and take strict action on them was suggested by members. It is their survival with the institute as well. Load of the same need to be calculated and accordingly decrease the no of faculties for next year, if the admissions are again less in coming year.

IT WAS RESOLVED THAT, every faculty should work for the admissions to their department. It is very vital for them as their survival is also depending on the no. of admissions. Also need to enhance them to give better knowledge to the students. If any faculty is trying to demotivate the others and harass the system by any means, suspension or by any other way, make necessary arrangements to stop him/her in the activity.

ITEM No.: 11-12

TO APPROVE ANNUAL BUDGET FOR 2022-2023 and TO CONSIDER THE RECOMMENDATIONS OF FINANCE COMMITTEE

The annual budget for 2022-23 was approved. For the NAAC purpose major requirements related to Construction and equipment's, purchases were mentioned by Campus Director which was approved. Also the financial constraints were discussed due to very less students due to fewer admissions at Civil engineering and Mechanical Engineering. Finance committee reports were learned and it was recommended to think on reduce salary and shrinking down the Gratuity amount of faculties.

IT WAS RESOLVED THAT, looking at financial constraints and annual budget, salary and gratuity amounts can be revised in the coming year and accordingly, after admission scenario of next year, decisive action could be

taken.

ITEM No.13

ANY OTHER POINT WITH PRIOR PERMISSION OF THE CHAIR.

No points were raised.

ITEM No.: 14- VOTE OF THANKS.

---Sample BoG meeting attendance is attached in attachment.

Collage Development Committee (CDC):

Functions of the College Development Committee:

i. 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 extracurricular activities

ii. Decide about the overall teaching programs or annual calendar of the college

iii. Recommend to the management about introducing new value added courses and the creation of additional teaching and administrative posts;

iv. Take review of the self-financing courses in the college & make recommendations for their improvement;

v. Make specific recommendations to the management to encourage and strengthen research culture, consultancy and extension activities in the college;

vi. Make specific recommendations to the management to foster academic collaborations to strengthen teaching and research;

vii. Make specific recommendations to the management to encourage the use of information and communication technology in teaching and learning process;

viii. Make specific recommendations regarding the improvement in teaching and suitable training programs for the employees of the college; Prepare the annual financial estimates (budget) and financial statements of the college or institution and recommend the same to the management for approval; Make recommendations regarding the students and employees welfare activities in the college.

ix. Discuss the reports of the IQAC and make suitable recommendations;

x. Frame suitable admissions procedure for different programs by following the statutory norms.

xi. Plan major annual events in the college, such as annual day, sports

events, cultural events, etc.;

xii. Recommend the administration about appropriate steps to be taken regarding the discipline, safety, and security issues of the college;

xiii. Consider and make appropriate recommendations on inspection reports

The Governing Council meets regularly twice in a year. All the activities of the Institute, the performance of students, academic matters, research progress and strategic plans for the overall development will be presentedby the Principal / Member Secretary. All the matters will be reviewed and suitable suggestions for improvementwill be sought from the Honourable members of the Governing Council. Minutes of the Governing Council meeting will be circulated to all the members after taking approval from Chairman of Governing Council. The Governing Council meeting details are presented in the Table B.10.1.2b. A sample of minutes of meeting is shown in figure 10.1

NAME OF THE MEMBER NOMINATIONED/ ELECTED	DESIGNATION	PROVISIONS OF MU ACT 2017
Shri. Veejhay J. Magdum	Chairman	Chairman of the Trust
Adv. Mrs. Sonale V. Magdum	Member	Vice- Chairperson/ Secretary of the Trust
Dr Sunil Admuthe	Member	Field of Research
Prof M B Bhilawade	Member	One Head of Development (Nominated by the Principal)
1.Prof R H Yadav 2.Prof K G Ghodkae 3.Mr D R Mane 4.Prof P P Patil	Member	Teachers in the college
Shri. V.S. Chavan	Member	One non-teaching employee
Dr. Suhas Deshmukh	Member	In field of education
Shri. R.S. Kulkarni	Member	In field of Industry

Dr P R Khatawkar	Member	In field of Social Service
Dr.S B Patil	Member Secretary	Principal, President, College Student Council
Awaiting	Member	Secretary, College Student Council

Table 10.1.2.3.: College Development Committee (CDC) List

Frequency of Meetings: BoG and CDC meetings are conducted Twice in a year.

Service Rules:

The service rules, policies and procedures are well defined by our institute and documented. The service rules is approved by Governing Council. Same is communicated to employees on Joining to the institute. Rules and Regulations are modified as and when needed. Important information is communicated through circulars or in meetings to faculty and staff members

Employee Welfare is regarded by JJMCOE as a necessary component of the institute. Employee morale is maintained by an institutes welfare practices. They enhance the quality of their performance, as they feel contented, comfortable, and enthusiastic to work for the organization. The Institute offers a variety of benefits to its whole teaching/non-teaching and administrative employees like Provident Fund, Gratuity Fund, Group Insurance, Medical Insurance, Promoting them for higher education, leaves, helping them in patent filing etc.

Recruitment and Promotion Policy:

1. Advertisement for the recruitment of staff in the leading newspapers.

2. Short-listing of the candidates for the interview by the respective departments.

3. Interview by the expert committee and selection of candidates.

4. Approval and appointment of the selected candidates by the management.

5. The promotion policy is as per the Trust guidelines confirming to AICTE norms.

Name	Category of Nomination	Status of Nomination	Contact no.	Mail ID
Dr.Mrs.D.A.Nikam	Teacher	Presiding Officer/ Head	9763998242	deepali.nikam@jjmcoe.ac.in
Mrs. Nilam Ramesh Mangave	Social Service	Member	9421200421	nilammangave@gmail.com
Adv. Premlata Botangale		Member	9423275808	botangalepremlata@gmail.com
Mrs. P. P. Magdum	Staff	Member	9028077521	pratiksha.magdum@jjmcoe.ac.in
Mrs. V. S. Patil		Member	9975031658	veena.patil@jjmcoe.ac.in
Mr. Balaji Jare BTech CSE	Students	Member	9552777566	balaji.jare@jjmcoe.ac.in
Ms.Juveriya Rafik Mujawar B.Tech Civil		Member	8485816517	juvimujawarafik@gmail.com
Ms.Anna Raju Bandi BTech IT		Member	9511880641	Anabandi2002@gmail.com
Prof. B.N. Shinde	Teacher	Member-Secretary	9421175569	balbhim.shinde@jjmcoe.ac.in
Prof.S.S.Karadge		Member	8983626193	supriya.karadge@jjmcoe.ac.in

Table10.1.2.4 Sexual Harassment Prevention cell/ Internal Complaint Committee 2023-24

Working Internal Complaint Committee

The cell facilitates women's empowerment through expert lectures, seminars, awareness programs and other welfare activities to uplift them.

Role and Responsibilities of Internal Complaint Committee

- Enhance the understanding of female related issues.
- Make the college campus a safe place for women.
- Avoid cases related to gender discrimination and sexual harassment.
- Stop offensive, hostile, intimidating, humiliating and exploitative language, gestures and conduct in campus.
- Create awareness among women about their rights and sensitizing male students.
- Provide a platform for girl student and female faculty/staff to share their experiences and views regarding their status in the society.

Anti-Ragging Committee

The College has an Anti - Ragging committee to curb the ragging in the campus and make the campus ragging free. In case if any student is found encountering such activity, the students who affected can report to members of the Anti - Ragging committee. The composition of the committee is as follows.

Sr. No.	Nature of nomination	Name/Designation and Address	Status of nominated person on the
01	Head of the Institute	Dr. Mrs. S. B. Patil, (I/C Principal, Dr. JJMCOE)	Chairman
02	Social Service	Adv. Kiran C. Shirguppe	Member
03	Police Administration	Mr. D.S. Borigidde (PI, Shirol Police Station)	Member
04	Local Media	Mr. Ganesh Shinde (Reporter, Daily Sakal, Jsp.)	Member
05	Non-Govt. Organization	Dr. Atul Ghodake	Member
06	Psychiatrist / Psychologist	Dr. Ketaki Bankapure (Psychologist, Kolhapur)	Member
07	Teacher Category	Prof. M. B. Bhilavade (Gen. Engg. Dr. JJMCOE)	Member
08	Non-Teaching Category	Mr. S.T. Jadhav (Registrar, Dr. JJMCOE)	Member
09	Hostel Management	Smt. Shilpa Salimath (Hostel Reactor, Dr. JJMCOE)	Member
10	Parent Category	Mr. Abasaheb Maruti Suryavanshi	Member
		Mrs. Ashwini Ajay Shinde	Member
11	Student Category (Senior level)	Ms. Vaishnavi Sanjay Chavan T.Y. B. Tech (CSE)	Member
		Mr. Atharv Ashok Divate	Member
12	Student Category (Fresh level)	Ms. Snehal Gajanan Patil F. Y. B. Tech (CSE)	Member
		Mr. Shantanu Prashant Ashtekar F. Y. B. Tech (ETC)	Member
13	Member Secretary	Prof. P.P. Patil (Dean, Students Welfare, Dr.	Member Secretary

Governance of academics and nonacademic activities is done by appointing various positions in institute. Following table shows the roles and responsibilities of such positions.

Goverence of academics and nonacademic activities is done by appointing various positions in institute. Following table shows the roles and responsibilities of such positions.

Principal	- Providing direction for programs through institution's Vision and Mission - Provision of input to Board of Governors(BOG) Meeting/ College Development (CDC)meeting and Implementation of improvement initiatives suggested by BOG/CDC - Approval of Annual Academic Calendar at Institution Level - Monitoring effective teaching as per the prescribed curriculum and as per the teaching / institutional methodology suggested by the University / AICTE. - Effective implementation and monitoring of Proctor system. - To take all necessary efforts for the Research and Funding proposal - Review of attainment of program outcomes by departments - Establishing an ecosystem conducive for academic excellence, research - Review of Department activities through HOD meetings. - Monitoring the faculty and student performance in University results. - Preparation of faculty appraisal, evaluation and collecting the data. - Conducting student feedback periodically and corrective measures on it. - To prepare all the liaising activities with government, corporate and Inspections of the institution conducted by the regulator bodies such as AICTE, DTE, university and other academic bodies / institutions. - Supervision of students' welfare, health and security services. - Guidance and counseling of students. - Monitoring and smooth conduction of both Theory Examination and Practical Examination (university and institute). - Review and approval of co-curricular activities of the institution - Identifying and implementation of staff welfare measures - Review of proposal of projects to various funding agencies - To implement and monitor ERP - To implement and monitor Website of Institute.

Registrar	- AICTE - Activities for Approval and Renewal - Activities connected to the university's affiliation and other DTE - Activities Concerning Admission and other New, Lateral, Transfer, and Re-admission Activities Related to Admission - Giving students certificates for education loans, Scholarship Related Activities – For various communities - Scrutiny and Processing Activities Related to Course Completion - Distribution of TC, CC, and Original Certificates - Students/Staff Group Insurance Scheme - Premium Payment, Policy and Claim Tracking - Fee Collection: Cash Deposits, Check Payment, and DD - HR duties include collecting resumes, reviewing them, scheduling interviews, and dealing with any - New Faculty Induction, Joining Formalities, and Appointment Letter, - Students Admission, Staff Attendance, Leave, Payroll Processing through ERP System - Point of Contact for NBA, NAAC for data pertaining to Faculty Recruitment and Retention - Liaison with Governmental Departments regarding Building Approval and Payment of Taxes - Maintaining repository of Rules and Regulations of AICTE, University and DTE - Maintenance of Training Records, Qualification improvement documents of employees. - Display of payment of examination fee and other fees related circular with the approval of Campus Director/Principal. - Display of all administrative circulars related to employees and students. - MIS reports for governmental departments viz., Ministry of HRD, AICTE and University, Employment Exchange - Single Point of Contact for Medical Emergency for students and staff Members - Official Communication with various agencies. - Maintenance of service books of employees. - Maintaining personal files of employees. - Monitoring and effective use of ERP modules.
Librarian	- General Library Administration - Organizing and purchasing books and periodicals - Collect the requirement of student text books from faculty members, procure and issue the same - Maintenance of Library Management System in ERP - Arrange for photography and videography and keep track of images and recordings of various events. - Issuing library cards to students, - Maintaining books and periodicals. - Activities at the librarys circulation desk (issuing and receiving books for members and students, returning and renewing them,

	and collecting overdue items from the fine collection).
	- Displaying on the college notice board, news items of importance and news items that comein dailies about the college
	- Regularly prepare the press notes concern to Institute's activities and further follow up to release in daily news apers.
	- Perform stock verification once a year and report the results.
	- Keep track of when periodicals are received and follow up on late or unpaid subscriptions.
Accountant	- Recording and reporting the cash flows.
	- Accounts receivable &Accounts payable
	- Payroll & Financial controls
Placement Officer	- To build and maintain a healthy and strong network with top MNC's for Arranging on-campus drive.
	- Initiating relationship with corporate regarding industry relations and interaction.
	- Interact with HR heads of corporate regarding internships, recruitment opportunities & in plant training.
	- Identification of students who are qualified or interested in placement on campus.
	- To encourage and direct the placement coordinators of each department in assisting the students with interview preparation.
	- To set up a programme for students to interact with HRs from core companies in each field during each semester in order to understand what the companies demand.
	- Keeping a student database and distributing it with corporations who qualify based on criteria.
	- Organizing aptitude, verbal, soft skill, and technical training in collaboration with the department for qualified students.
	- Reviewing the performance of the students during pre- placement training and formulating a retraining plan for improvement.
	- Organize a meeting with parents in collaboration with the department to go over the placement procedure and company expectations.
	- Keep a database of possible recruiters up to date, and follow up with them periodically.
	- Interacting with potential employers to identify business needs, design, and deliver company-specific training.
	- Interacting with the Past Recruiters for date of joining for selected students and recruitment.
	- Organizing interviews for eligible students both on and off campus in order to provide suitable opportunities.
	- Coordinating all of the placement processs activities, including the preplacement talk, online tests, group discussions, and interviews.
	- To arrange Internship for students in reputed organization
	- To identify the reputed companies for signing of MoUs.
Alumni Association	- Formation of alumni council
	- Arrange periodic meetings
	- Ensure alumni registration

	- Organizing Alumni Meet
Dean Academics	- Launch of new academic programs, up gradation of existing programme structure, course content, etc. - Development of human resources teaching and nonteaching technical. - Deciding the number of divisions, batches for each theory and lab. Courses. - Preparation of time table. - Preparation of the academic almanac, monitoring the progress of class work, - Syllabus coverage, directing and supervising student activity programs. - Adherence of academic rules by all teaching faculty. - Regular and effective conduct of classes by teaching faculty. - Monitoring the functions of Class Advisors. - Monitoring the academic progress of the concerned year students in each department. - Helping faculty in planning effective remedial instruction. - Monitoring the faculty performance in University results - Guiding younger faculty in identifying their fields of interest - Students' Feedback - collection, analysis and proper action. - Transparency in Evaluation System.
Dean Student's Welfare	- Responsible in campus discipline of the students and coordinate the same with the hostel wardens - Encourage the students to take part in intercollegiate competitions held by reputable colleges. - Chairperson of the Proctorial Committee to prevent ragging - Fostering a positive campus culture among the students - Encourage students to participate actively in cultural events. - Plan and organize various co- and extra-curricular activities - Manage, and act as Faculty Advisor for Students events, coordinate dates, timing, preparation of budgets and provision of funds - Interact with students to keep them informed about the latest market trends and skills demands so that they can update themselves and prepare best for their career - Boost up student morale and counsel them - Build relationships with Alumni through seminars, annual meets, etc. - Liaison with parents/ guardians about their progress and problems. - To monitor the working of Sports, NSS ,Hostel, Mess, Canteen, and Stores.

	- Before the start of the semester, assign the subjects to the faculty members. - Gather lesson plans from the faculty members before the start of the class and make sure the information is in line with the format. - Approval and Publication of Department Level Academic Calendar and Time Table - Review and Monitoring of Teaching-Learning Process and attainment of Course and Program Outcomes - Identification and monitoring of Program Outcome Improvement Initiatives - Preparation of Department Budget and approval of expenses Planning, Allocation and Utilization of Human Resources Planning, - Procurement and Utilization of Department Level Infrastructure/Labs/Equipment - Verify the student attendance registers maintained by the staff members once a week and submit to the Campus Director/ Principal for verification once in a fortnight - Give the faculty members guidelines on how to set the test questions, how to ensure student confidentially, and how to analyze the scripts quickly enough to meet the Campus Director/Principals deadline. - According to the schedule provided, the graded answer sheets and reward sheet filled out by the concerned faculty member must be turned in to the exam section. - Give the appropriate class advisers instructions on how to enforce the clothing code for the students.
Head of the Department	- Have a meeting of the departmental staff on the designated day, and take minutes. - Collect the student feedback about the faculty member's subject wise and communicate the feedback to the concerned faculty members in the standard format. - If any subject is handled by the other department faculty members, communicate one copy to the respective HOD. - Guide the faculty members to improve their performance based on the feedback and also monitor whether the faculty members are improving from semester to semester. - Encourage the faculty to create the master registers for publishing attendance and internal grades within a week of the start of the semester's classes. - With the assistance of the class teacher, periodically inform the concerned parents of the student's internal grades and attendance details. - Students who miss the assessment, examinations or are erratic in class should be counseled. - Create student groups and distribute project guides. - Appoint faculty as mentors and allocate students to the mentors in the beginning of the academic year. - Observe any recommendations or instructions occasionally provided by the Campus Director/Principal. - Chairing Department Review Meetings and Class Committee Meetings - Identification and provision of co-curricular programs - Approval of student and staff leave and OD requests - Review and monitoring of support initiatives for Slow Learners

	- Review and monitoring of support initiatives for Advanced Learners - New faculty induction and evaluation - Annual Performance Appraisal for Department Staff Members - Approval of Reference Books for courses - Nurture Industry Relationship, Research & Entrepreneurial spirit among students - Ensuring discipline among students and initiating disciplinary action where required - Creating and maintaining a departmental database of alumni and students. - Any significant incidents that occasionally occur in the Department should be reported to the appropriate authorities. - Make sure the department maintains academic integrity.
Dean Research	- To regularly have R&D meetings with coordinators and members. - To make certain that each department hosts at least one national or international conference each year. - To raise faculty members understanding of technical writing and the value of publishing papers in reputable journals with high impact factors. - To identify the various funding agencies and create awareness to all faculty members. - To assist the research scholars in obtaining their Ph.D. as quickly as feasible. - To inspire the academics to publish books in their fields of expertise - To develop policy and support the institutions consulting activities. - To promote partnerships between industry-institutes, cooperative research initiatives, and the establishment of new incubation centers. - To inspire academic staff to look for programs with a focus on idustry to complete consulting projects. - To encourage faculty members to apply for getting fund/grant for conducting programs. - Organizing idea contests - To raise faculty members awareness of intellectual property rights. - To encourage our faculty to submit patent applications (IPR). - To inspire academic staff to work on original and imaginative projects with students. - Encourage faculty members to take part in and make presentations at national and worldwide symposium and conference. - Establishing and managing University Approved Research Centers

Dean Faculty Development	- To boost the faculty and staff knowledge of both organizational and personal growth in the field of education.
	- To inform the faculty and staff about the culture and procedures of the organization.
	- To motivate the staff members to create positive attitude (Vibration) among student community in all the aspects.
	- To motivate the faculty members act as a resource person inside the college,other colleges, and government and private organizations.
	- To motivate the faculty to create strong networks within the teaching community.
	- To encourage faculty members to take an active part in FDPs as well to Departments to organize FDP at our own Institutes.
	- To motivate faculty members to create strong corporate networks
	- Determining the training and faculty development requirements for every employee.
	- To inspire faculty members to do better in both academic and extracurricular activities.
	- To appreciate and recognize the faculty members as and when required.
	- To provide for the needs of the teachers and build leisure spaces
	- To manage and update each faculty members competency mapping scorecard
	- Identifying the newly inducted faculty for orientation programs and plan for them in every semester.
	- To encourage faculty to organize national, international seminars and conferences.
	- To take care of the faculty welfare and create recreational facilities to keep an eye on and assist the teachers in improving their knowledge of their respective fields.
	- To uphold professional ethics among teaching personnel and other staff members.
	- To run recurring internal FDP programs and employee training initiatives
	- To encourage employees to actively participate in sporting and cultural events.
	- To oversee and ensure that nonacademic staff members are competent and meet requirements
	- Conducting faculty appraisal, evaluation and collecting the data.
Industry Institute Interaction Cell	- To create a platform for industry institute interaction.
	- To establish inter-relationship between Institute &Industry through know-how and MOU's.
	- To facilitate student/faculty internships at industries.
	- To organize industrial visits for the students.
	- To organize technical talks for the students from the industry experts.
	- Internship activity
Entrepreneurship Development Cell	- To nurture the student ideas and to develop innovative products.
	- To support the student projects with funding.
	- To establish & maintain incubation center.
	- To create entrepreneurs echo system for students.
	- To maintain data relevant to entrepreneurship programs.
	- To encourage & establish start-up companies.

Physical Director	- Arranging the ground and all related facilities. - Arranging and planning selection processes. - Choosing the home team or college team. - Giving students TA/DA in exchange for their participation in outside competitions. - Running practice events before representing the college in outside competitions. - Arranging for purchase of sports goods. - Examining student comments on physical education and associated exercises - Keeping an adequate supply of common furnishings in classrooms and other common places - Get maintained Gym equipment's and scheduling of Gym.

Table 10.1.2.6: Responsibilities of various central positions

10.1.3 Decentralization in working and grievance redressal mechanism (10)

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 members. The members are advised to implement their task diligently 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 independently and implement need based action into force for the upliftment of the college. Sl. No Name of the Committee Head of the Committee.

For proper implementation of diverse academic and non-academic matters, the Institute maintains around different committees with distinct tasks.

• All academic and operational decisions based on policy are delegated by the BoG to College Development Committee, which is chaired by the Principal.

• The CDC develops standard operating procedures and delegates their implementation to all department heads through IQAC

The Department Heads are given the authority to look after departmental administration.

• Deans of Faculty Development and R&D look after the overall development of the faculty members.

• The Institutes co-curricular, extracurricular activities, and sports are coordinated by Faculty, the Physical Director, Students, and Dean Students.

• The Examination coordinator conducts internal assessment and University examinations.

• The librarian manages book availability, procuring requisitions for new books from faculties, and keeping University question papers, and syllabus copies.

• The Training and Placement Officer is in charge of arranging campus drives, arranging internships, coordinating with adjacent colleges for Pool Campus, and ensuring that students are placed successfully in a variety of industries.

• Accounts and Administration is handled by the Registrar.

Different Statutory /Nonstatutory committees are shown below:

Statutory/Nonstatutory Committee Academic Year 2021-22:

Sr. No.	Committee / Activity	Head/Coordinator
A	**STATUTORY BODIES/COMMITTEES**	
01	Building Sub-Committee	Dr. R. S. Chougule
02	Finance Sub-committee	Mr. B. N. Shinde
03	Equipment/Purchase Sub-committee	Dr. D. B. Unde
04	IQAC	Mrs. P. P. Belagali
05	Standing	Mr. P. P. Malage
06	SC/ST	Mr. K. G. Ghodake
07	Sexual Harassment Prevention Cell/ Vishaka	Mr. S. M. Attar
08	Women Cell	Dr. S. M. Attar
09	Anti-Ragging Committee Secretary	Mr. P. P. Patil
B	**NON-STATUTORY/WORKING COMMITTEES**	
01	Library	Mr. S. P. Gaikwad
02	Academic Monitoring	Dean Academics
03	R & D	Dr. Mrs. S. R. Mahadik
04	Consultancy	Mr. K. G. Ghodake
05	Industry-Institute-Cell	TPO

06	Entrepreneurship Development Cell	Mr. V. J. Khot
07	Examination	Mr. R. H. Yadav
08	Higher Studies	Mrs. R. V. Kaulgud
09	Competitive Examination	Dr. J. S. Lambe
10	Training & Placement Cell	Mr. N. S. Nadaf
11	Proctor Cell	Mr. M. M. Kolap
12	Parent-Teaching Association Cell	Mrs M U Phutane
13	Alumni Cell	Mr. Y. R. Patil
14	Transport	Registrar
15	Sports	Mr. V. T. Kamble
16	NSS	Mr. P. A. Chougule
17	Cultural	Mr. D. R. Mane
18	Hostel	Dean Students
19	Canteen & Mess	Prof B N Shinde
20	ERP	Registrar
21	Computer And Peripherals Maintenance	Network Admin
22	Electrical Maintenance	Electrician
23	House Keeping	Mr. K. G. Ghodake

Table 10.1.3.1: Statutory/Nonstatutory Committee Academic Year 2021-22

Statutory/Nonstatutory Committee Academic Year 2022-23

Sr. No.	Committee / Activity	Head/Coordinator
A	**STATUTORY BODIES/COMMITTEES**	
01	Building Sub-Committee	Dr. R. S. Chougule
02	Finance committee	Mr. B. N. Shinde
03	Equipment/Purchase committee	Dr. D. B. Unde
04	IQAC	Mrs. P. P. Belagali
05	Standing	Mr. P. P. Malage
06	SC/ST	Mr. K. G. Ghodake
07	Sexual Harassment Prevention Cell/ Vishaka	Dr. Mrs. D. A. Nikam
08	Women Cell	Dr. Smt. S. M. Attar
09	Anti-Ragging Committee Secretary	Mr. P. P. Patil
B	**NON-STATUTORY/WORKING COMMITTEES**	
01	Library	Mr. S. P. Gaikwad
02	Academic Monitoring	Dean Academic
03	R & D	Dean, R&D
04	Consultancy	Mr. K. G. Ghodake
05	Industry-Institute-Cell	Mrs. T. H. Mohite
06	Entrepreneurship Development Cell	Mr. V. J. Khot
07	Examination	Mr. R. H. Yadav
08	Higher Studies	Mrs. R. V. Kaulgud
09	Competitive Examination	Dr. J. S. Lambe
10	Training & Placement Cell	Mr. P. P. Malage
11	Proctor Cell	Mr. M. M. Kolap
12	Parent-Teaching Association Cell	Mrs. M. U. Phutane

13	Alumni Cell	Ms. S. S. Karadge
14	Transport	Mr. S. T. Jadhav
15	Sports	Mr. V. T. Kamble
16	NSS	Mr. P. A. Chougule
17	Cultural	Mr. D. R. Mane
18	Hostel	Mrs. S. B. Holkar
19	Canteen & Mess	Mr. B. N. Shinde
20	ERP	Mr. P. V. Kothawale
21	Computer And Peripherals Maintenance	Mr. R. A. Sandi
22	Electrical Maintenance	Mr. M. B. BHilawade
23	House Keeping	Mr. S. M. Shaikh
24	Professional Society committee	Mrs. S. S. Solapure
25	Discipline Committee	Mr. M. V. Kharade
26	Social Media cell	Mr. N. S. Nadaf
27	Website Committee	Mrs. A. V. Gundavade
28	Publicity Comittee	Mr. P. P. Patil

Table 10.1.3.2: Statutory/Nonstatutory Committee Academic Year 2022-23

Statutory/Nonstatutory Committee Academic Year 2023-24

Sr. No.	Committee / Activity	Head/Coordinator
A	**STATUTORY BODIES/COMMITTEES**	
01	Building Committee	HOD Civil Engg.
02	Finance committee	Mr. B. N. Shinde
03	Equipment/Purchase committee	Dr. D. B. Unde
04	IQAC Committee	Mrs. P. P. Belagali
05	Standing Committee	Mr. P. P. Malage
06	SC/ST Committee	Mr. K. G. Ghodake
07	Sexual Harassment Prevention Cell/ Vishaka	Dr. Mrs. D. A. Nikam
08	Women Cell	Mr. S. M. Attar
09	Anti-Ragging Committee	Dean Students
B	**NON-STATUTORY/WORKING COMMITTEES**	
01	Library Committee	Mr. N. C. Desai
02	Academic Monitoring Committee	Dean Academic
03	R & D Committee	Dean R & D
04	Consultancy Committee	Mr. K. G. Ghodake
05	Industry-Institute-Cell & EDC Committee	Mrs. T. H. Mohite
06	Examination Committee	Mr. R. H. Yadav
07	Higher Studies Committee	Ms. P. R. Desai
08	Competitive Examination Cell	Dr. J. S. Lambe
09	Training & Placement Cell	Mr. P. P. Malage
10	Proctor Cell	Mr. M. M. Kolap

11	Parent-Teaching Association Cell	Mrs. M. U. Phutane
12	Alumni Cell	Ms. S. S. Karadge
13	Transport Committee	Mr. S. T Jadhav
14	Sports Committee	Mr. V. T. Kamble
15	NSS Committee	Mr. P. A. Chougule
16	Cultural and Publicity Committee	Mr. D. R. Mane
17	Hostel committee	Mrs. S. B. Holkar
18	Canteen & Mess Committee	Mr. B. N. Shinde
19	ERP Committee	Mr. P. V. Kothawale
20	Computer And Peripherals Maintenance committee	Mr. R. B. Vadgave
21	Electrical Maintenance Committee	Mr. M. B. Bhilvade
22	House Keeping Committee	Mr. S. M. Shaikh
23	Professional Society committee	Ms. J. T. Patil
24	Discipline Committee	Mr. R. A. Bhartiya
25	Social Media cell	Ms. S. C. Patil (MCA)
26	Website Committee	Mrs. A. V. Gundwade
27	Discrimination Prevention Committee	Mr. K. G. Ghodake
28	Equal Opportunity Cell	Mr. P. P. Malage

Table 10.1.3.3: Statutory/Nonstatutory Committee Academic Year 2023-24
GRIEVANCE REDRESSAL COMMITTEE

Students who come from various backgrounds to study may face a lot of problems and many distractions to take them off from their learning path. Thus to address the problem the students grievance redressal cell is formed to resolve the issues of the students. To receive grievance from students, Parents & others concerned college has hosted a link in the webpage which will come into the preview of principal and committee. The committee will investigate into the matter and shall try to resolve it as quickly as possible.

GRIEVANCE & REDRESSAL COMMITTEE (As per AICTE guidelines)

Working of GRIEVANCE & REDRESSAL COMMITTEE

- Uphold the dignity of the college by ensuring strife free atmosphere through promoting cordial student-student relationship and student-faculty relationship etc.

- Make aware the students to express their grievances / problems freely and frankly, without any fear of being victimized.

- Advise students at the institute to respect the right and dignity of peer and show utmost restraint and patience whenever any occasion of rift arises.

- Advise the students to refrain from, inciting students against other students.

- Students can submit grievances online through institute website or in offline mode.

Action taken Report:

Till date no grievances are enrolled from students.

Sr. No.	Name/Designation / Address	Status of Nomination Person on Committee	Position
01	**Dr. Mrs. S. B. Patil** I/C Principal Dr. JJMCOE, Jaysingpur	Chairperson	Principal
02	**Dr. S. A. Patil** HOD, Electronics and E&TC Engg. Dept. DKTE's Textile & Engg, Institute, Ichalkaranji	Member	Senior Professor of affiliating university
03	**Shivaji University/ DTE Nominee** (awaited)	Member	Awaiting
04	**Dr. J. S. Lambe** HOD, Civil Engg. Dept. Dr. JJMCOE, Jaysingpur	Member	Senior faculty from institute

Sexual Harassment Cell /Internal Complaint Committee

Table 10.1.3.4: Sexual Harassment Cell /Internal Complaint Committee

Internal complaint committee is formed to address the internal issues that arise within in the college of the   faculties / students and give solutions to the various issues raised internally. Suggestions and remedies are given by the members to tackle the problems that arise. Sexual Harassment is a major issue and very sensitive, the students who face such problems will not be in a mind-set to share these issues with anyone. This committee is constituted to address the students how to overcome such problems. Powers are given to the committee to take stringent action on students if anyone involve in such activities.

As per Supreme Court of India guidelines, the definition of sexual harassment is broad enough to include all kinds of offensive, hostile, intimidating, humiliating and exploitative language, gestures and conduct.

With a view to take up women's issues and problems, the cell aims at creating awareness of their rights and sensitizing male students. It also provides a platform for girl student and female faculty and staff to share the experiences and views regarding their status in the society and suggest ways to improve and empower themselves.

Sexual Harassment Prevention cell/ICC/ Vishakha Committee 2021-22

Sr. No.	Name	Department	Designation
01	Mrs. M. U. Phutane	ETRX Engg.	Presiding Officer Head
02	Mr. B. N. Shinde	First Year Engg.	Secretary
03	Mrs. Nilam R. Mangave	Social Worker	Member
04	Adv. Mrs. Hema Botangale	Advocate	Member
05	Mrs. H. S. Swami	ETRX Engg.	Member
06	Mrs. S. S. Sawant	Office	Member
07	Ms. Sutar Nikita	T.Y. ETC Engg.	Member
08	Ms. Gavas Ashwini	T.Y. IT Engg.	Member
09	Ms. Waingade Varsha	T.Y. Mech. Engg.	Member

Table 10.1.3.4: Sexual Harassment Cell /Internal Complaint Committee

Sexual Harassment Prevention cell/ ICC Vishakha Committee 2022-23:

Sr. No.	Name	Department	Designation
01	Mrs. M. U. Phutane	ETRX Engg.	Presiding Officer Head
02	Mr. B. N. Shinde	First Year Engg.	Secretary
03	Mrs. Nilam R. Mangave	Social Worker	Member
04	Adv. Mrs. Hema Botangale	Advocate	Member
05	Mrs. H. S. Swami	ETRX Engg.	Member
06	Mrs. S. S. Sawant	Office	Member
07	Ms. Sutar Nikita	T.Y. ETC Engg.	Member
08	Ms. Gavas Ashwini	T.Y. IT Engg.	Member
09	Ms. Waingade Varsha	T.Y. Mech. Engg.	Member

Table 10.1.3.5: **Sexual Harassment Cell /Internal Complaint Committee**

Sexual Harassment Prevention cell/ICC Vishakha Committee 2023-24

Sr. No.	Name	Category of Nomination	Status of Nomination	Contact no.	Mail ID
1	Dr.Mrs.D.A.Nikam	Teacher	Presiding Officer/Head	9763998242	deepali.nikam@jjmcoe.ac.in
2	Mrs. Nilam Ramesh Mangave	Social Service	Member	9421200421	nilammangave@gmail.com
3	Adv. Premlata Botangale		Member	9423275808	botangalepremlata@gmail.com
4	Mrs. P. P. Magdum	Staff	Member	9028077521	pratiksha.magdum@jjmcoe.ac.in
5	Mrs. V. S. Patil		Member	9975031658	veena.patil@jjmcoe.ac.in
6	Mr. Balaji Jare BTech CSE	Students	Member	9552777566	balaji.jare@jjmcoe.ac.in
7	Ms.Juveriya Rafik Mujawar B.Tech Civil		Member	8485816517	juvimujawarafik@gmail.com
8	Ms.Anna Raju Bandi BTech IT		Member	9511880641	Anabandi2002@gmail.com
9	Prof. B.N. Shinde	Teacher	Member-Secretary	9421175569	balbhim.shinde@jjmcoe.ac.in
10	Prof.S.S.Karadge		Member	8983626193	supriya.karadge@jjmcoe.ac.in

Working of Internal Complaint Committee

The cell facilitates women's empowerment through expert lectures, seminars, awareness programs and other welfare activities to uplift them.

Role and Responsibilities of Internal Complaint Committee

- Enhance the understanding of female related issues.
- Make the college campus a safe place for women.
- Avoid cases related to gender discrimination and sexual harassment.
- Stop offensive, hostile, intimidating, humiliating and exploitative language, gestures and conduct in campus.
- Create awareness among women about their rights and sensitizing male students.
- Provide a platform for girl student and female faculty/staff to share their experiences and views regarding their status in the society.

Anti-Ragging Committee

The College has an Anti - Ragging committee to curb the ragging in the campus and make the campus ragging free. In case if any student is found encountering such activity, the students who affected can report to members of the Anti - Ragging committee. The composition of the committee is as follows.

Anti-Ragging Committee (2021-22)

Sr. No.	Name	Category	Designation
01	Dr. Mrs. S. B. Patil	I/C Principal	Chairman
02	Adv. Mrs. Sonale V. Magdum	Vice-Chairperson/ Secretory of the Trust	Member
03	Mr. A B. Gholap	Registrar	Member
04	Mr. D. S. Borigidde, PI Shirol Police Station	Police Administration	Member
05	Mr. Ganesh Shinde	Media Reporter	Member
06	Dr. Kiran Patil	Social Service	Member
07	Dr. Sachim Ketkar	Psychiatrist	Member
08	Mr. B. N. Shinde	First Year Engg.	Member
09	Mr. P. B. Chikali	Mech. Engg.	Member
10	Mr. K. A. Khilare	Hostel Manager	Member
11	Mr. P. P. Patil	Dean, Students	Member Secretary

Anti-Ragging Committee (2022-23)

Sr. No.	Name of Faculty / Staff	Category	Designation
1.	Dr. Mrs. S. B. Patil	I/C Principal	Chairman
2.	Adv. Dr. Mrs. Sonale V. Magdum	Social Service	Member
3.	Mr. D. S. Borigidde	PI, Shirol Police Administration	Member
4.	Mr. Ganesh Shinde	Local Media Reporter, Daily Sakal	Member
5.	Dr. Kiran Patil	Non Govt. Organization	Member
6.	Dr. KshitijaBhate	Psychiatrist, Psychologist	Member
7.	Prof. B. N. Shinde	Teacher	Member
8.	Prof. S. T. Jadhav	Registrar Non- Teaching	Member
9.	Mr. K. A. Khilare	Hostel Manager	Member
10.	Mr. VidhyasagarAnnasoAdgane	Parent category	Member
11.	Mr. Aditya Dadaso Desai (B.Tech. Civil) Ms. Joya JavedShaikh(B.Tech. E&TC)	Student category Senior Level	Member
12.	Mr. Omkar Pravin Jadhav(FY B.Tech. CSE) Ms. Rutuja Satish Mahadik(FY B.Tech. AIDS)	Student category Fresh Level	Member
13.	Prof. P. P. Patil	Dean, Students	Member Secretary

Anti-Ragging Committee (2023-24)

Sr. No.	Nature of nomination	Name/Designation and Address	Status of nominated person on the committee
01	Head of the Institute	Dr. Mrs. S. B. Patil (I/C Principal, Dr. JJMCOE)	Chairman
02	Social Service	Adv. Kiran C. Shirguppe	Member
03	Police Administration	Mr. D.S. Borigidde (PI, Shirol Police Station)	Member
04	Local Media	Mr. Ganesh Shinde (Reporter, Daily Sakal, Jsp.)	Member
05	Non-Govt. Organization	Dr. Atul Ghodake	Member
06	Psychiatrist / Psychologist	Dr. Ketaki Bankapure (Psychologist, Kolhapur)	Member
07	Teacher Category	Prof. M. B. Bhilavade (Gen. Engg. Dr. JJMCOE)	Member
08	Non-Teaching Category	Mr. S.T. Jadhav (Registrar, Dr. JJMCOE)	Member
09	Hostel Management	Smt. Shilpa Salimath (Hostel Reactor, Dr. JJMCOE)	Member
10	Parent Category	Mr. Abasaheb Maruti Suryavanshi	Member
		Mrs. Ashwini Ajay Shinde	Member
11	Student Category (Senior level)	Ms. Vaishnavi Sanjay Chavan T.Y. B. Tech (CSE)	Member
		Mr. Atharv Ashok Divate	Member
12	Student Category (Fresh level)	Ms. Snehal Gajanan Patil F. Y. B. Tech (CSE)	Member
		Mr. Shantanu Prashant Ashtekar F. Y. B. Tech (ETC)	Member
13	Member Secretary	Prof. P.P. Patil (Dean, Students Welfare, Dr. JJMCOE)	Member Secretary

Mechanism followed by Anti Ragging Committee:

1. If any student is affected due ragging, can raise a complaint to any of the committee members

2. On receipt of complaint, the chairman of the committee can hold meeting with member's students complained and students who indulged ragging

3. Committee registers statement of complainant and respondent and thoroughly scrutiny will review and suggest feasible solution to the complainant by keeping respondent student future in to consideration.

4. Committee educate students about the impact if one involves in ragging and its consequences through awareness program.

5. The details of committee is displayed in all prominent places in the campus as well as in webpage, this enables students to reach the committee immediately if they face any problem due to ragging.

Anti - Ragging Squad

The College has an Anti - Ragging Squad which keeps vigil round the clock in the campus to prevent the occurrence of ragging in the campus. Ensures display Pamphlets of Anti ragging, Observation of Anti ragging activities in the campus including hostel

10.1.4. Delegation of financial powers (10)   **Institute Marks: 10.00**

The Board of Governors is empowered to delegate any of its powers to any Officer, employee or Authority of the institute.

For smooth running of the department budgets are very essential.

Budgets are prepared before the commencement of the academic year by every department, various deans and section heads. In this regard,

Heads of the Departments, submits the budget proposal to the Principal with request regard to stationery, lab requirements, etc, for which budget allocations are approved by the authority in discussion with the Management. On the same lines, proposals for procuring new equipment for the labs, interactive technologies in the classrooms, conduction of workshops/ conferences/ seminars by the Heads of Departments or concerned dean or section head for which proposals are submitted and same is approved and fund allocations are made.

Following are Delegation of Financial power & utilization by various authorities:

Campus director: Campus Director is the final decision making authority on all department & Institutional requirements. He Prepares Institutional budget proposal for financial year and get approval in BoG Meeting.

Principal:

- Preparation of budget proposal for Institution for financial year.
- All the financial approvals will be studied and recommended for approval by Principal, on the recommendation of the HODs, Deans or Section Heads.
- The budget allocated by the Management on the basis of the budget estimates submitted by the college is adequate to meet the recurring and non-recurring expenditure is monitored by Principal.
- Based on the approval from Principal accountant release funds to various vendors/suppliers/petty contractors/distributors etc. throughout financial year.

HOD/Deans/Section Heads: preparation of budget proposal for financial year.

- Recommending & forwarding all the respective requirements and initiate the process of purchase is done by HOD/Deans/Section Heads.
- In exigencies & emergency they initiates request for purchase/procurement of all requirements of department/Sections.

HOD/Deans/Sections are the recommending authority for Department/Sections for requirements in association Account office

Sanctioning Authority	Amount
Campus Director	1,00,000/-
Principal	50,000/-
Head of the department	10,000/-

10.1.5 Transparency and availability of correct/unambiguous information in public domain (5) Institute Marks: 5.00

1. Information on policies, rules, processes and its dissemination is made available to all stakeholders on the Institutes website.
2. Unambiguous information is displayed on all general notice boards including Department notice boards, Central notice boards, Training and placement cell, Library, and other important areas.
3. Copies of official notices are circulated to the entire faculty, technical and non-technical staff and students through hardcopy and Social media as well.
4. The institute website is continuously updated for all the information about policies, students, faculty and relevant information. Institute website is http://www.jjmcoe.ac.in (http://www.jjmcoe.ac.in/)

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30) Total Marks 30.00

Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively)in the three previous financial years

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3

CFY: (Current Financial Year),

CFYm1: (Current Financial Year minus 1),

CFYm2: (Current Financial Year minus 2) and

CFYm3: (Current Financial Year minus 3)

Total Income 96875985				Actual expenditure(till…): 97429014			Total No. Of Students 1179
Fee	Govt.	Grants	Other sources(specify) misc. receipts	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify 0	Expenditure per student
91828485	0	0	5047500	90310490	7118524	0	82636.99

Table 1 - CFY 2023-24, Budget Allocation and Utilization

Total Income 102068187				Actual expenditure(till…): 122408798			Total No. Of Students 1276
Fee	Govt.	Grants	Other sources(specify) misc receipts	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify 0	Expenditure per student
97387004	0	397939	4283244	117144769	5264029	0	95931.66

Table 2 - CFY 2022-23, Budget Allocation and Utilization

Total Income 117633390				Actual expenditure(till…): 109603358			Total No. Of Students 1408
Fee	Govt.	Grants	Other sources(specify) misc receipts	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify 0	Expenditure per student
117206917	0	0	426473	109538274	65084	0	77843.29

Table 3 - CFY 2021-22, Budget Allocation and Utilization

Total Income 112325735				Actual expenditure(till…): 94187031				Total No. Of Students 1495
Fee	Govt.	Grants	Other sources(specify) misc receipts	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify 0		Expenditure per student
108714516	0	0	3611219	94187031	0	0		63001.36

Table 4 - CFY 2020-21, Budget Allocation and Utilization

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	0	0	0	0	0	0	0	0
Library	965000	414413	966800	223782	960800	128677	400000	186578
Laboratory equipment	7808240	7111680	6325000	5120630	2500000	56084	1800000	0
Laboratory consumables	300000	32552	315000	326384	400000	1907261	100000	16049
Teaching and non-teaching staff salary	88161152	73467627	80780089	87405892	84246381	88548323	85544919	70914001
Maintenance and spares	3034000	1392365	2080000	2917800	1965800	3235596	1000000	470756
R&D	365000	43750	337000	112500	225000	80000	200000	0
Training and Travel	1890000	1600590	500000	843987	1898600	2956831	763542	690562
	100000	32657	90000	24983	75000	10646	75000	21937
Others software, furniture, electrification, vehicle, administrative, exp on student and other expenses, specify	15414251	16632435	17179103	25432840	17391109	12679940	21370610	18327148
Total	**118037643**	**100728069**	**108572992**	**122408798**	**109662690**	**109603358**	**111254071**	**90627031**

Table 5 - Budget Allocation and Utilization

10.2.1 Adequacy of budget allocation (10)   Institute Marks: 10.00

a. **Quantum of budget allocation of three years   and**

b. **Justification of budget allocation of three years**

Budget requirements under 'recurring' and 'non-recurring' heads are collected from all the departments, Deans and sections before the commencement of the financial year. Every year budget is spent on faculty and Staff salary and welfare, purchase of laboratory equipment, consumables, repair and maintenance, computers, library books as per the requirements. Spending is monitored by the accounts section. Supplementary allocations are made in special cases, if needed. The institution carefully monitors the expenses such that the necessities are met without affecting the smooth working of the institution. The management has been very efficiently and effectively doing this over the past several years.

Financial Year	Approved Budget (Budget allocation)	Actual Expenditure (Justification)	Adequate/No adequate
2022-2023	118037643	100728069	Adequate
2021-2022	108572992	122408798	Adequate
2020-2021	106296690	109538274	Adequate
2023-2024	106296690	90627031	Adequate

Table 10.2.1.1: -

10.2.2 Utilization of allocated funds (15)   **Institute Marks**: 15.00

All the Heads of the departments, Deans, Section heads are intimated for the maximum utilization of funds allocated against their budget proposals. 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 Principal with the consultation of the Campus Director.   The budget was utilized during assessment years as per allocation except for any unforeseen/anticipated expenditure which was met nearby overall budget allocations for each department.

Financial Year	Approved Budget	Actual Expenditure	Percentage of Utilization
2023-2024	118037643	100728069	85%
2022-2023	108572992	122408798	113%
2021-2022	106296690	109538274	103%

2020-2021	111254071	90627031	81%

Table 10.2.2.1: -

10.2.3 Availability of the audited statements on the institute's website (5)

Institute Marks: 5.00

Institute has made all available on institutes website, which has URL link:

https://www.jjmcoe.ac.in/audited statement

10.3 Program Specific Budget Allocation, Utilization (30)

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3 CFY: (Current Financial Year), CFYm1: (Current Financial Year minus 1), CFYm2: (Current Financial Year minus 2) and CFYm3: (Current Financial Year minus 3)

11312025		Actual expenditure (till…): 10799823		Total No. Of Students 103
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
779554	10532471	621890	10177933	104852.65

Table 10.2.3.1: CFY 2023-24

19485111		Actual expenditure (till…): 18693898		Total No. Of Students 245
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
846539	18638572	459877	18234021	76301.62

Table 10.2.3.2: CFY 2022-23

23786310		Actual expenditure (till…): 22574887		Total No. Of Students 349
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
248109	23538201	5686	22569201	64684.49

Table 10.2.3.3: CFY 2021-22

26719397		Actual expenditure (till…): 26017374		Total No. Of Students 420
Non-Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
218405	26500992	0	26017374	61946.13

Table 10.2.3.4: CFY 2020-21

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	700000	594610	800000	382555	250000	0	250000	0
Software	150000	0	400000	0	100000	0	125000	0
Laboratory consumable	25000	2844	100000	62668	500000	472751	50000	4509
Maintenance and spares	300000	121640	600000	560236	900000	802005	300000	132253
R & D	125000	3822	125000	21601	60000	19830	75000	0
Training and Travel	200000	139831	200000	162051	800000	732908	250000	194004
	20000	2853	25000	4797	25000	2639	25000	6163
Total	**1520000**	**865600**	**2250000**	**1193908**	**2635000**	**2030133**	**1075000**	**336929**

10.3.1 Adequacy of budget allocation (10)   Institute Marks : 10.00

A. Quantum of Budget allocation for three years and B) Justification of Budget allocation for three years

Adequacy of budget allocation

1. The department prepares the budget on recurring and non-recurring details and submit to Head of Institution.

2. The Head of Institution prepares budget by keep in view of Departmental requirements, Salary component, Infrastructural Development and Additional requirements.

3. The prepared budget will be submitted to campus director for further Approval.

4. Campus director intern gets approval from BoG.

Financial Year	Approved Budget (Budget allocation)	Actual Expenditure (Justification)	Adequate/Non Adequate
2023-2024	19823115	16916164	Adequate
2022-2023	18233514	16957202	Adequate
2021-2022	17851353	17406671	Adequate
2020-2021	18683889	15219807	Adequate

10.3.2 Utilization of allocated funds (20)   Institute Marks : 20.00

1. The department prepares the budget on recurring and non-recurring details and submit to Head of Institution.

2. The Head of Institution prepares budget by keep in view of Departmental requirements, Salary component, Infrastructural Development and Additional requirements.

3. The prepared budget will be submitted to campus director for further Approval.

4. Campus director in turn gets approval from BoG.

Financial Year	Approved Budget	Actual Expenditure	Percentage of Utilization
2023-2024	11312025	10799823	95%
2022-2023	19485111	18693898	96%
2021-2022	23786310	22574887	95%
2020-2021	26719397	26017374	97%

10.4 Library and Internet (20)

10.4.1 Quality of learning resources (hard/soft) (10)   Institute Marks : 10.00

A. Availability of relevant learning resources including e-resources and Digital Library

To develop library as a value addition towards academia and research, Library works Dr. JJMCOE works under valuable guidance of Honorable Chairman and Principal. Central library committee takes care of all library related activities.

Central library of JJMCOE is Wi-Fi enabled building with latest infrastructure and well stocked with good collection of books, e-books, journals, e-journals and newspapers with carpet area 710 sqm. for the central library .

The library also has of books and other material for reading like a set of handbook, encyclopedia, Gate books, GRE, TOFEL and general collections such as motivational books, biographies, competitive exam books, etc. Good collections of 45000 volumes excluding e- books are available.

Books are purchased from leading publishers/book distributors and book exhibitions.

Library Software – The Library is fully automated and operates with 4.2 versions software. .The Library has adequate no. of work stations to facilitate.

Searching/Accessing OPAC for on line book searches-resources, web-browsing and for other academic works. Bar-Coding access control automatic door for students and staff in- out entry for the access to the central library.

Library Automation: - Library material and all services are automated .All transactions are fully computerized .The Bar-coded ID and the scanner are used for circulation of literature

The Table shows the library utilization budget for last three financial years.

10.4.1   Library utilization budget for last three financial years

Sr. No.	Year	No of New Title added	No of New edition added	No of New volume added	Expenditure (In Rs.)
01	2023-24	61	61	324	240847.00
02	2022-23	53	53	221	122984.00
03	2021-22	00	00	000	000000.00
	Total	114	114	545	363831.00

10.4.1. A. I. Learning Resources (Hard Copy, Soft Copy)

Particulars (Hard copy)		No. of resources
Books		45093
Titles		12834
Reference books		3158
Hard copy of journals	International and National	52
	International Jrls (included UGC care & Scopus Abrod)	24
	National Journals, Magazines	28
Bound volume of journals		1561
News paper		02
(Soft Copy)		
CD'S		1900
JJMCOE E- BOOKS		887

10.4.1 .A. II. Learning Resources (Soft Copy/E-Resources)

Participating in resource sharing/Networks/consortia:- To give more exposure to e- literature search is membership of DELNET (Developing Library Network)

,New Delhi is made available

Library Membership/Subscription:- Library has subscribed e-books and e-journals through Infotrak Solutions, Delhi.The library also has an institutional membership of NDLI and Shivaji University, Kolhapur.

- **Journals and Databases – Subscription to current year i.e.2024**

Sr. no.	e-resources	Content	Link
01	Info track Library Solution	· e-books - Title 5066, Volume 5066 · e-journals- 10333 · Videos – 194 · Proceedings – 113 · e- magazines – 157	www.k-hub.in (http://www.k-hub.in/) (User Name KB496KOP Password - %mFwK9FK)
02	DELNET(Developing Library Networking)	· Union catalogue of Books CCF- 2,51,90,000 · Periodicals – 37,847 · Catalogue of Periodical -20,235 · Database of Articles -9,84,809 · Engineering & Technology e-Journals – 911 · Video recordings- 6000 · Thesis & Dissertations - 1,02,096 · e-books – 1613	http://delnet.nic.in (http://delnet.nic.in/) (User Name: - mhdjjme, Password: - djj5938)
03	NDL(National Digital Library)	· Open Access to all	Membership Period till 04/04/2025
04	INFED(Shivaji University Kolhapur)	· Shivaji University off-campus Access	www.idp.unishivaji.ac.in (http://www.idp.unishivaji.ac.in/) (User /name – ILDRJ1903, Password - ILDRJ1903)

Table 10.4.1. A: Journals and Databases – Subscription to current year i.e.2024

10.4.1.A. II. Learning Resources; Digital Library

A digital library is a collection of digital materials that can be accessed and searched online. Unlike traditional, digital libraries do not require physical storage space for books or other materials. Instead, the digital materials are stored in electronic format on servers, and users can access them through the internet from anywhere in the world. We have digital Library with the carpet area of 59 spm. Total computers in library 15, printers 02, and Xerox machine with scanner. Multimedia system is available for students.

All type of subscribed databases like K-Hub, E-Book and E--Journal Data base, DELNET, associate membership, facility to search bibliographic Database Library staff assists students for searching digital information which is free of cost and

available in technical Era.

10.4.1.B. Accessibility to Students:-

Library is providing open access to all users in all sections in following ways:

- Online Public Access Catalogue (OPAC)/WEBOPAC

- Book Bank facilities for SC/ST Students

- Access to e-Journals/Books

- Old university question papers

- Membership with NDL

- Documents are fully bar-coded for fast and accurate transactions.

- Back volumes of journals (bound volumes)

- Inter Library Loan Facility.

- Display of new arrivals-books and periodicals

- Faculty publications & Research paper available in reference

Qualified and experienced staff plays important role to provide easily accessible and cost effective information services. For the easy access, all the online resources are subscribed as IP Based access subscription. This helps users to access any resource from any computer connected in the college Campus LAN and also through Wi-Fi enabled devices. This helps users for searching multiple database at a stretch. Remote off campus access facility is created and this can be used by students from home.

10.4.2 Internet (10)   **Institute Marks 10.00**

Name of the Internet provider	Manomay Syslink
Available band width	300 MBPs
WiFi availability	Yes
Internet access in labs, classrooms, library and offices of all Departments	We have provided internet access to all Department labs, classrooms, Library, Central office, Gymkhana, Tanning placement office,
Security arrangements	

Dr. J.J. Magdum Trust's
Dr. J.J. Magdum College of Engineering, Jaysingpur 416101

Date 1/1/2024

To,
The Principal/Advisor/Campus Director
Dr. J. J. Magdum College of Engg.
Jaysingpur.

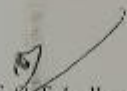**Subject:- Renewal of Lease Line**

Respected Sir,

As per above subject We have a lease line of 100 MBPS Provided by Manomay Syslink.
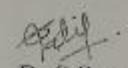
Looking at the usages & internet facility at various departments, offices, library & individual Wi-Fi connectivity, hostel etc, it was observed and experienced very low speed for internet, resulting in trouble to fetch important portals. So increase in bandwidth up to 300 MBPS is requested, which is insisted by AICTE for EOA process.
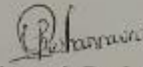
This lease line expired on **18-Jan-2024** so we need to renew it as early as possible.

Approv – 8.60. locale.

Thanking You

Prof.S.T.Jadhav   Dr.S.B.patil   Dr.Umesh Deshannavar   Dr.S.S.Admuthe
(Registrar)   (Principal)   (Advisor)   (Director)

Declaration

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 will be initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Place: Jaysingpur

Date: 26/11/2024

Dr. G. V. Mulgund

Principal, JJMCOE