DMI COLLEGE OF ENGINEERING

Information Technology

Part A : Institutional Information

1 Name and Address of the Institution

DMI COLLEGE OF ENGINEERING,
DMI COLLEGE OF ENGINEERING MEVALURKUPPAM B VILLAGE NAZARETHPET POST PALANCHOOR KANCHIPURAM DISTRICT

2 Name and Address of Affiliating University

3 Year of establishment of the Institution:

2001

4 Type of the Institution:

☐ University	☑ Autonomous
☐ Deemed University	☐ Affiliated
☐ Government Aided	

5 Ownership Status:

☐ Central Government	☐ Trust
☐ State Government	☑ Society
☐ Government Aided	☐ Section 25 Company
☑ Self financing	☐ Any Other(Please Specify)

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

Name of Institutions	Year of Establishment	Programs of Study	Location
LOYOLA INSTITUTE OF TECHNOLOGY	2003	B.E/B.TECH/MBA	PALANCHUR
DMI COLLEGE OF EDUCATION	2007	BEd	PALANCHUR
ST. JOSEPH RESIDENTIAL SCHOOL	1994	CBSE	SREPERUMBUDUR
ST.JOSEPH INTERNATIONAL SCHOOL	2015	CBSE	KODIKOTTAI
LOYOLA ACADEMY M.H.S.S	2011	MATRIC	TAMBARAM
ST.JOSEPH INTERNATIONAL SCHOOL	2015	CBSE	ARALVOYMOZHI
ST.JOSEPH INTERNATIONAL SCHOOL	2015	CBSE	SALEM
DMI ST. JOSEPH GLOBAL SCHOOL	2016	CBSE	YAHAPURAM
DMI ST. JOSEPH GLOBAL SCHOOL	2016	CBSE	TENKASI
DMI ST. JOSEPH GLOBAL SCHOOL	2017	CBSE	POLIVAKKAM
DMI ST. JOSEPH GLOBAL SCHOOL	2017	CBSE	KEEZHATHANUR
DMI ST. JOSEPH GLOBAL SCHOOL	2020	CBSE	KARAIKAL
LOYOLA INTERNATIONAL SCHOOL	2021	CBSE	PALANCHR

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
B.Tech - Information Technology	UG	2001	2001	60	Yes	60	Applying first time	--	--	Yes	4

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Information Technology
2	Under Graduate	Engineering & Technology	Mechanical Engineering
3	Under Graduate	Engineering & Technology	Computer Science and Engineering
4	Under Graduate	Engineering & Technology	ELECTRONICS AND COMMUNICATION ENGINEERING

9 Total number of employees in the institution:

A. Regular* Employees (Faculty and Staff):

Items	2024-25		2023-24		2022-23	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	42	42	36	36	31	31
Faculty in Engineering (Female)	45	45	45	45	46	46
Faculty in Maths, Science & Humanities (Male)	9	9	10	10	12	12
Faculty in Maths, Science & Humanities (FeMale)	14	14	18	18	17	17
Non-teaching staff (Male)	12	12	13	13	13	13
Non-teaching staff (FeMale)	9	9	9	9	10	10

B. Contractual* Employees (Faculty and Staff):

Items	2024-25		2023-24		2022-23	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)						
Faculty in Engineering (Female)						
Faculty in Maths, Science & Humanities (Male)						
Faculty in Maths, Science & Humanities (FeMale)						
Non-teaching staff (Male)						
Non-teaching staff (FeMale)						

10 Total number of Engineering Students:

Engineering and Technology- UG	☑ Shift1	☐ Shift2
Engineering and Technology- PG	☑ Shift1	☐ Shift2
Engineering and Technology- Polytechnic	☐ Shift1	☐ Shift2
MBA	☑ Shift1	☐ Shift2
MCA	☐ Shift1	☐ Shift2

Engineering and Technology- UG Shift-1

Items	2024-25	2023-24	2022-23
Total no. of Boys	895	850	823
Total no. of Girls	517	443	412
Total	**1412**	**1293**	**1235**

Engineering and Technology- PG Shift-1

Items	2024-25	2023-24	2022-23
Total no. of Boys	11	8	6
Total no. of Girls	6	3	13
Total	**17**	**11**	**19**

Engineering and Technology- MBA Shift-1

Items	2024-25	2023-24	2022-23
Total no. of Boys	39	50	61
Total no. of Girls	42	64	52
Total	**81**	**114**	**113**

11 Vision of the Institution:

VISION OF THE INSTITUTE

To become an internationally reputed institution by producing competent professionals with exemplary skills and ethical values.

12 Mission of the Institution:

MISSION OF THE INSTITUTE

IM 1: To achieve higher level technological and professional excellence.

IM 2: To impart quality and holistic professional education.

IM 3: To train professionals to be entrepreneurs and employment generators.

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

Head of the Institution	
Name	Dr SUJATHA JAMUNA ANAND
Designation	PRINCIPAL
Mobile No.	9444405820
Email ID	principal@dmice.ac.in

NBA Coordinator, If Designated

Name	Dr R SENTHIL RAMA
Designation	ASSOCIATE PROFESSOR
Mobile No.	9042948009
Email ID	iqac@dmice.ac.in

PART B: Criteria Summary

Critera No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60	60.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	120	120.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120	120.00
4	STUDENTS' PERFORMANCE	150	110.27
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	192.00
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	43.30
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	**1000**	**945**

Part B

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

Total Marks 60.00

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

Total Marks 5.00

Institute Marks : 5.00

Vision of the institute	**VISION OF THE INSTITUTE** To become an internationally reputed institution by producing competent professionals with exemplary skills and ethical values.
Mission of the institute	**MISSION OF THE INSTITUTE** **IM 1:** To achieve higher level technological and professional excellence. **IM 2:** To impart quality and holistic professional education. **IM 3:** To train professionals to be entrepreneurs and employment generators.
Vision of the Department	To achieve academic excellence by producing globally competent IT professionals with ethical values.
Mission of the Department	(see table below)

Mission of the Department:

Mission No.	Mission Statements
M1	To provide quality education by imparting strong foundation to adapt the challenging technologies
M2	To promote knowledge through continuous learning and technical skills in the field of Information Technology.
M3	To create professionals with entrepreneurship skills of ethical values for the society.

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

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	Technical Proficiency with Employability Skills : To give students a solid foundation in the logical, mathematical, and technical concepts essential to plan, evaluate, and resolve engineering problems as well as to make them prepared to enter employment.
PEO2	Continuous Learning : To encourage students to pursue further study and continue learning by doing research and developing useful innovations in technology
PEO3	Inculcating Entrepreneurial Skills : To prepare the students to be active team players, combine strong interpersonal skills and leadership qualities with entrepreneurial skills.
PEO4	Ethical Values : To instill moral principles in students for their professional as well as personal lives.

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

Total Marks 10.00

Institute Marks : 10.00

The vision, mission and PEOs statement has been disseminated to all the stake holders during Department advisory committee (DAC) meetings.

A. Adequacy in respect of publication & dissemination:

1. Publication and dissemination of Vision, Mission, PEOs:

- The College Website www.dmice.ac.in (http://www.dmice.ac.in/)
- College Notice Board
- E-Mail Communication
- Feedback forms
- Principal Room
- Department Notice Board
- Department Corridor
- Department Library
- HOD Office
- Faculty Course File
- Staff Room
- Class Room
- Department Magazine
- Department News Letter
- Department Web page
- Academic Calendar
- Lab Manuals
- Survey / Feedback forms

B. Process of dissemination among stakeholders:

The vision, mission, PEOs are communicated to stakeholders during Department Advisory Committee (DAC) meeting. This includes highlighting our focus on producing competent professionals, fostering excellence in Electronics engineering, and emphasizing continuous learning and communication skills to prepare graduates for success in diverse environments.

The stake holders of the program are,

1. Internal Stake Holders:

(i) Faculty:

- The knowledge and expertise of the faculty members are used in the quality improvement of the program by giving predictive inputs and enable the reduction of gap between program and industry expectations.

(ii) Students:

- The students are the immediate beneficiary who plays the most prominent role in the programme.
- The feedback given by the students is considered to aid innovative teaching and learning methodologies.

(iii) Management:

- The management supports the complete system by providing a conductive environment so that the needs / demands of each stakeholder, vision and mission of the Department can be achieved.

(iv) Governing Body Members:

- The Governing council supports the complete system by providing a conductive environment so that the needs / demands of each stakeholder, vision and mission of the department can be achieved.

2. External Stake Holders:

(i) Alumni:

- Long term stake holders of the institute.
- Indicate the gap between the abilities of the graduates and expected skills in the industry/academia and research organization.

(ii) Employers:

- Represents the major opportunity provider for our graduates.
- Professionals contribute through their feedback about the graduates who have taken up job, higher studies or research.
- Defines the expected proficiencies of the graduates.

(iii) Parents:

- Suggests betterment of infrastructure and Placement activities.
- The feedbacks from the parents are considered solely to prepare their ward to become a successful graduate.

(iv) Members of Professional bodies / Association Members / Academic Peers:

- Gives input to bridge the gap between the program and industrial expectations.

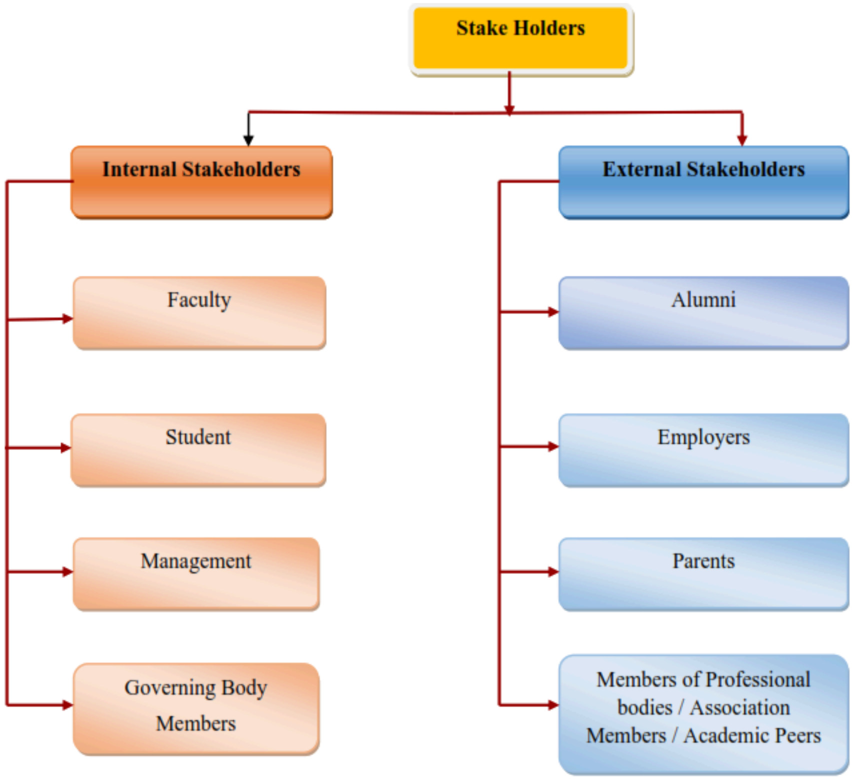


Figure 1. 1 : Stake holders involved in defining the Vision, Mission and PEOs

C. Extent of awareness of Vision, Mission & PEOs among the stakeholder:

Periodic awareness of the Vision, Mission, and PEOs is created through frequent meetings with internal and external stakeholders to ensure the career growth of students and the development of the institute.

Table 1.1 The following table depicts the awareness among internal and externals stakeholders with effective process implementation.

Sl.No	Dissemination methods	Extent of Awareness	Duration
1	Department Advisory Committee (DAC)	Review and provide inputs on the alignment of the vision, mission and PEOs with industry trends and societal needs during their meetings.	Twice in a year
2	Students Feedback	Students Feedback forms includes specific questions or sections to gather insights on the understanding and relevance of the vision, mission and PEOs from the student perspectives.	End of the semester
3	Parent Teacher Meeting	Dedicate a session in each semester to discuss the students overall development and career growth and the alignment of these endeavors with the departments vision, mission and PEOs.	Once per Semester
4	Alumni Meet	Seek feedback from alumni on the relevance and impact of the departments vision, mission and PEOs in their professional lives and gather suggestions for potential improvements.	Annually
5	Industry Interaction	During industry interactions, seek feedback from industry representatives on the relevance and alignment of the departments vision, mission and PEOs with industry expectations and requirements.	Adequate
6	Faculty Orientation Program	Conduct workshops or seminars during the faculty orientation program to reinforce the understanding of the vision, mission and PEOs among new and existing faculty members.	At the beginning of the academic year
7	Induction Program for Freshers	Incorporate a dedicated session or module during the induction program to introduce and explain the department vision, mission, and PEOs	At the beginning of the academic year

1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (25) Total Marks 25.00

Institute Marks : 25.00

Process for defining the Vision and Mission of the Department.

The procedure for articulating and reconstituting the Vision and Mission of the Department is depicted in the figure below. The vision and mission statements of the department, in conjunction with the Program Educational Objectives (PEOs), collaboratively formulated by the Principal, Department Head, Alumni, Industry experts and senior faculty members associated with the program. The Department Advisory Committee meeting is convened before the commencement of each semester with the aforementioned members. During the meeting, participants assess the strengths and weaknesses, the core principles of the program, and articulate the departments vision and mission statements to ensure alignment with those of the Institute. The process of articulating the Vision and Mission statements is shown in figure 1.2.

Moreover, the vision statement articulates the prospective attributes of the Program and serves as a valuable resource in resolving various inquiries regarding the objectives of undertaking a mechanical engineering program and the anticipated future condition of the program. This statement predominantly encompasses critical elements, including a fundamental principle, a vision for the future, and recognition of service to stakeholders. The final segment of the vision statement articulates the institutes commitment to serving its stakeholders, which include faculty members, students, employers, as well as the wider community and society. A vision statement possess stability and provide direction to decision-makers as they plan the future progression of the program.

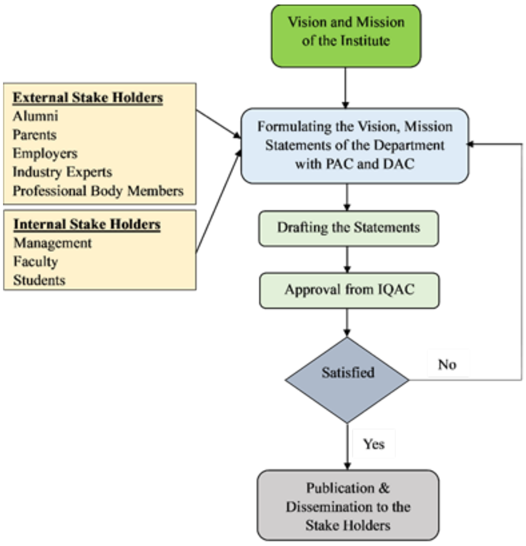


Figure 1.2 Framing and Redefining Process of Vision, Mission of the Department

The mission statement of the programme focuses on the path provided to achieve the vision. It provides a concise summary of facilities available to meet the vision.

The programmes mission statement emphasizes the pathway to execute the vision. It offers a brief overview of the facilities available to fulfil the vision.
The Department and Institute provide a comprehensive and diverse curriculum designed to meet the intellectual, cultural, and social needs of individuals from the diverse backgrounds globally. This is undertaken to equip students to navigate and contribute to a dynamic world while fostering active lifelong learning. The senior professors, department head and external stakeholders will address all the aforementioned concerns and establish the programs objectives. The Institutes objectives will be achieved through the vision and mission of the mechanical engineering program.

The articulated vision and mission have been evaluated according to the members recommendations, appropriate modifications have been made, finalized by the Department Advisory Committee (DAC) & Program Assessment Committee (PAC) and authorized by the Internal Quality Assurance Cell (IQAC). The Vision and Mission statements are disseminated to all stakeholders as outlined in section 1.3.

Process involved in defining the PEOs of the Program:

The process for framing the PEO statements of the Department is depicted in the figure 1.3. The formulation of Program Educational Objectives (PEOs) begins with their alignment to the vision and mission of the Institute and Department. The Program Assessment Committee (PAC) develops the PEO statements in conjunction with stakeholders. The prepared remarks are subsequently presented to the Department Advisory Committee (DAC) for endorsement. Upon approval, they are published and distributed; otherwise, they are amended for re-evaluation.

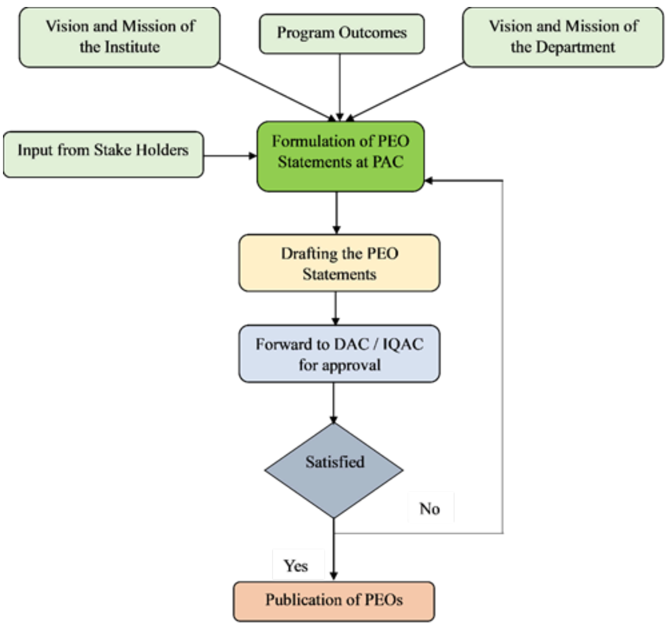


Figure 1.3 Process of framing PEOs of the Department

Key Steps Involved:

Step 1: The Institute and Department vision and mission serve as basis.

Step 2: In collaboration with stakeholders, PEO statements of the Department were formulated at PAC.

Step 3: A drafted statements of the PEO are framed and forwarded to DAC for approval.

1.5 Establish consistency of PEOs with Mission of the Department (15) Total Marks 15.00

Institute Marks : 15.00

A) Preparation of a matrix of PEOs and elements of Mission statement

In line with the institute vision, mission and department vision and mission, the PEO's have been framed and the following table of information reveals the consistency of PEO's with mission of the department.

PEO Statements	**DM1 -** To provide quality education by imparting strong foundation to adapt the challenging technologies.	**DM2 -** To promote knowledge through continuous learning and technical skills in the field of Information Technology.	**DM3 -** To create professionals with entrepreneurship skills of ethical values for the society.
PEO1: Technical Proficiency with Employability Skills	**3**	**3**	**3**
PEO2: Continuous Learning	**3**	**3**	**3**
PEO3: Inculcating Entrepreneurial Skills	**2**	**3**	**3**
PEO4: Ethical Values	**2**	**3**	**3**

Table 1.7: Establish consistency of PEOs with Mission of the Department

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High) It there is no correlation, put "-"

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

The Program Educational Objectives (PEOs) are designed to produce graduates who will be well educated in the fundamental concepts of mathematical, Computer engineering principles, and moreover, will be able to continue professional development throughout their life. Due to, economic globalization and interdisciplinary teaming, the communication skills are becoming important increasing qualitative parameter, as such we prepare graduates to function responsibly in diverse environment, and prepare them to be successful graduates to face the today's job market. From the above mapping, we have inferred that the defined Program Educational Objectives are consistently connected with all the mission statements developed by the department.

Table 1.8: Correlation parameter of consistence matrix

CONSISTENCY	RELATIONSHIP	JUSTIFICATION
PEO- I VS DM1	3	Sound fundamental knowledge in Information Technology substantially improves quality of technical education.
PEO- I VS DM2	3	The fundamental knowledge helps at some extent in developing of professional potential in terms of sharing the knowledge and Dissemination
PEO-I VS DM3	3	Fundamental knowledge of analyzing the problems helps to compete strongly in today's market and lifelong learning
PEO- II VS DM1	3	Quality Education in the field of Information Technology provides the huge opportunities in multi-disciplinary projects.
PEO- II VS DM2	3	Continuous learning creates the more opportunities substantially to work as a part of teams of multi-disciplinary projects and Discoveries
PEO- II VS DM3	3	Competency level and lifelong learning emphasizes huge opportunities to work with multi-disciplinary projects and discoveries
PEO- III VS DM1	2	Quality technical education in the field of Information Technology will influence moderately on promoting awareness of lifelong Learning

PEO- III VS DM2	3	Life-long learning and codes of professional practice strongly relates with professional Potential
PEO- III VS DM3	3	Awareness of life-long learning and codes of professional practice helps to compete strongly in today's market
PEO- IV VS DM1	2	Quality of technical education shows greater improvement successful careers of the students
PEO- IV VS DM2	3	Successful career of the student strongly depends on the professional potential in terms of Knowledge
PEO- IV VS DM3	3	Competency skill of the students strongly relates with meeting the demands in the market

PEO Statements	M1	M2	M3
Technical Proficiency with Employability Skills : To give students a solid foundation in the logical, mathematical, and technical concepts essential to plan, evaluate, and resolve engineering problems as well as to make them prepared to enter employment.	3	3	3
Continuous Learning : To encourage students to pursue further study and continue learning by doing research and developing useful innovations in technology	3	3	3
Inculcating Entrepreneurial Skills : To prepare the students to be active team players, combine strong interpersonal skills and leadership qualities with entrepreneurial skills.	2	3	3
Ethical Values : To instill moral principles in students for their professional as well as personal lives.	2	3	3

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120)

Total Marks 120.00

2.1 Program Curriculum (20)

Total Marks 20.00

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 AnnexureI. Also mention the identified curricular gaps, if any (10)

Institute Marks : 10.00

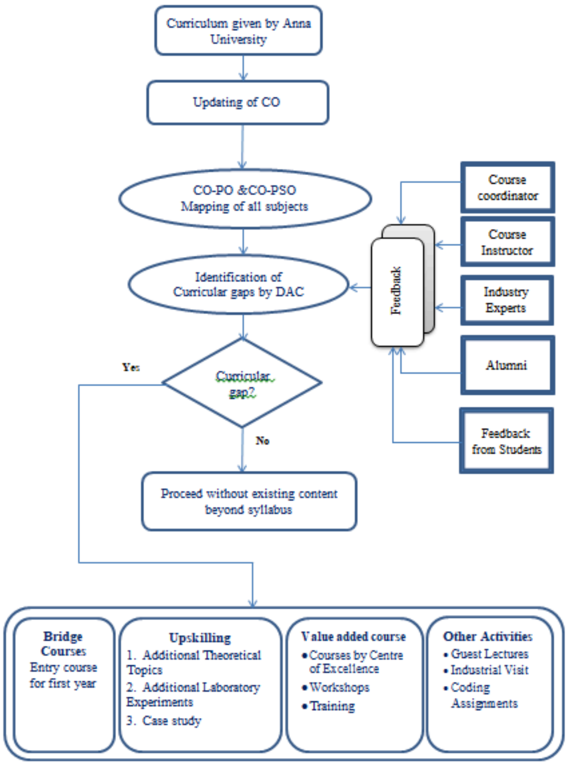
A).Process used to identify extent of compliance of university curriculum for attaining POs & PSOs

The DMI College of Engineering is affiliated with Anna University, Chennai. So the programmed curriculum is as per the scheme and syllabus of the affiliated university. The curriculum comprises general, Basic Sciences and Professional Subjects related to Information Technology. If any gaps in the curriculum provided by the affiliated university concerning to POs (Program Outcomes) and PSOs (Program Specific Outcomes) are identified, then the department makes additional efforts to impart such knowledge by covering aspects through Content beyond the syllabus, Value added courses, and other activities. Figure . 2.1 gives the process of gap identification and the actions taken to shield the gaps analyzed.

The four additional components that complement the core curriculum are

1. **Bridge Courses:** These are entry-level courses designed for first-year students to help them transition smoothly into the academic program.
2. **Content beyond Syllabus:** Additional theoretical topics, Laboratory experiments and Case studies are given to extend the understanding of a particular concept beyond the boundaries of the syllabus.
3. **Value-added course:** This involves Workshops, value-added courses offered through the institutions Centre of Excellence and MOOCs Courses.
4. **Other Activities:** These include Seminars, Guest Lectures and Industrial Visits for students to gain practical exposure and industry insights.

Subjects related to Information Technology are mapped with twelve Program Outcomes and gaps are identified. The necessary actions are chosen based on the gaps identified.



COMPONENTS OF CURRICULUM

REGULATION 2021

Components	Credits	Percentage
Humanities and Social Science	12	7.4
Basic Sciences	25	15.4
Engineering Sciences	18	11.1
Professional Core	61	37.6
Professional Electives	18	11.1
Open Elective	12	7.4
Employability Enhancement Courses	16	10
Total	**162**	**100**

REGULATION 2017

Components	Credits	Percentage
Humanities and Social Science	14	7.6
Basic Sciences	31	16.8
Engineering Sciences	23	12.5
Professional Core	82	44.5
Professional Electives	15	8.1
Open Elective	6	3.3
Employability Enhancement Courses	14	7.6
Total	**185**	**100**

B. List the curricular gaps for the attainment of defined POs & PSOs

Table 2.1-CURRICULAR GAP (Regulation 2021)

S.No	Target Students	SUBJECT	GAPS IDENTIFIED	Relevance to POs	Relevance to PSOs
1	II	Object Oriented Programming	Features of JAVA, recent development tools as JAVA 8+ and Code quality are gaps based on current technology.	PO1,PO2,PO3,PO5	PSO1, PSO2, PSO3
2	II	Foundations of Data Science	Integration of AI and IoT, explainable AI are topics that needs to be added	PO2,PO3,PO5	PSO1, PSO2, PSO3
3	II	Artificial Intelligence and Machine Learning	Social Media Prediction for Sales using Regression Analysis	PO3, PO5	PSO1, PSO2, PSO3
4	III	Mobile Applications Development Laboratory	Hands on both hardware and software for mobile development and application.	PO2,PO3,PO4,PO5,PO12	PSO1, PSO2, PSO3
5	II	Web Essentials	HTML, CSS and JAVA Script its front-end and back-end builds on web	PO1, PO2, PO3, PO4, PO5	PSO1, PSO2, PSO3
6	II	Environmental Sciences and Sustainability	Self-preservation, awareness on effect of social media and how to use social media for personal and career development.	PO6, PO7, PO8	PSO1, PSO2, PSO3
7	III	Disaster Risk Reduction and Management	Emotional Intelligence, Persuasion, Adaptability and Resilience, Customer-Centric Mindset and Conflict Resolution	PO6, PO7, PO8, PO9, PO11, PO12	PSO1, PSO2, PSO3
8	III	Cloud Computing	Real time hands on in containers and creating environments	PO1, PO2, PO3, PO4, PO5	PSO1, PSO2, PSO3

S.No	Target Students	SUBJECT	GAPS IDENTIFIED	Relevance to POs	Relevance to PSOs
9	III	Computer networks	Software defined networking and network function virtualization are gaps related to current scenario.	PO2, PO5	PSO2, PSO3

Table 2.2-CURRICULAR GAP (Regulation 2017)

S.No	Target Students	SUBJECT	GAPS IDENTIFIED	Relevance to POs	Relevance to PSOs
1	II	Design and Analysis of Algorithms	Data driven algorithm, tools to implement data science algorithms.	PO2, PO3, PO5	PSO1, PSO2, PSO3
2	II	Interpersonal Skills/Listening & Speaking	Self-preservation, awareness on effect of social media and how to use social media for personal and career development.	PO6, PO7, PO8	PSO1, PSO2, PSO3
3	III	Electronic Commerce	Software testing for e-commerce in real-time	PO2, PO3, PO5	PSO1, PSO2, PSO3
4	III	Web Technology	CSS and JAVA Script its front-end builds on web	PO2,PO3,PO5	PSO1, PSO2, PSO3
5	III	Microprocessors and Microcontrollers	Real time applications and comparison with available processors.	PSO1, PSO2, PSO3	PSO1, PSO2, PSO3
6	III	Professional Ethics in Engineering	To separate ethical and emotions drive to lead a successful profession.	PO8,PO6,PO9,PO12	PSO1, PSO2, PSO3
7	III	Hospital Management	Healthcare IT, focus in interoperability, medical IoT and wearable technology	PO6, PO7, PO8	PSO1, PSO2, PSO3
8	III	Computer networks	Software defined networking and network function virtualization are gaps related to current scenario.	PO2, PO5	PSO1, PSO2, PSO3
9	III	Big Data Analytics	Knowledge on relevant tools and platforms and security	PO2, PO3, PO5	PSO1, PSO2, PSO3
10	IV	Project Work	Plagiarism checking, journal searching and triangulating on research.	PO6, PO7, PO8	PSO1, PSO2, PSO3
11	IV	Cloud Computing	Artificial Intelligence and machine learning in cloud services, sustainable and green cloud computing.	PO1, PO3, PO4, PO5, PO12	PSO1, PSO2, PSO3
12	IV	Human Computer Interaction	Artificial Intelligence for cloud	PO1, PO3, PO4, PO12	PSO1, PSO2, PSO3

2.1.2 State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs (10) Institute Marks : 10.00

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

- The curriculum gap to attain the PO's and PSO's is identified and then necessary steps to be taken are intimated to Dean/Academics and Principal, DMI College of Engineering, Chennai.
- Letter has been sent to Board of Studies and syllabus committee of Anna University for the identified curricular gap to take the necessary actions

B).Delivery details of the content beyond the syllabus for the attainment of PO's and PSO's

The gaps identified has been fulfilled by organizing Webinars, Seminars, Workshops, inviting experts to give technical talks and interacting with students, industrial visits, etc.,

The curriculum of an academic program is designed to meet specific Program Outcomes (POs) and Program Specific Outcomes (PSOs). However, to ensure a holistic learning experience, it is essential to incorporate content beyond the syllabus. This report outlines the strategies and methodologies adopted to deliver such content and their contributions to the attainment of POs and PSOs.

Objectives of Delivering Content Beyond the Syllabus

- To bridge the gap between academia and industry expectations.
- To enhance students technical, analytical, and problem-solving skills.
- To foster innovation, creativity, and research aptitude.
- To ensure exposure to emerging trends and technologies.
- To provide hands-on experience through real-world case studies, workshops, and projects.

Methods of Delivery

Workshops and Seminars

- Organized expert talks by industry professionals on latest technologies such as AI, IoT, Cloud Computing, and Cybersecurity.
- Conducted hands-on training sessions on machine learning and blockchain applications.
- Facilitated guest lectures on entrepreneurship and startup culture related to information technology..
- Conducted-specific training sessions on emerging technologies.

Industry Collaborations

- Arranged internships and industrial visits to enhance practical exposure.
- Conducted joint certification courses with reputed organizations like MSME.
- Encouraged students to participate in live projects and consultancy services.

Technical Competitions and Hackathons

- Hosted coding competitions, robotics challenges, and app development contests.
- Encouraged participation in national and international level hackathons.
- Provided mentorship for students to develop innovative solutions to real-world problems.

Research and Publications

- Guided students in publishing research papers in indexed journals and conferences.
- Established student research groups to work on funded projects.
- Supported students in filing patents and application development.

Online Courses and MOOC (Massive Open Online Course) Platforms

- Integrated NPTEL, Coursera, Udemy, and edX courses into the academic curriculum.
- Conducted faculty-led discussions and assessments on MOOC (Massive Open Online Course) content.
- Encouraged students to complete certification programs on trending technologies.

Value-Added Courses

- Introduced short-term certificate programs on Programming etc..
- Provided training on soft skills, communication, and personality development.

Community Engagement and Social Responsibility Initiatives

- Involved students in NGO-driven projects to apply their technical skills for social welfare.
- Conducted awareness programs on sustainability and environmental impact.
- Organized rural development programs integrating technology for social good.

2023-24

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Content beyond syllabus to cover industrial needs	Workshop in Blockchain Technology	11/08/2023	Ms.Pavitra Asokan &Ms.Shree Kalyanne Secure kloud Technology	85	POs:1,2,3,5,12 PSOs: 1,2,3
2	Practical experience in configuring and managing networks.	Guest Lecture on Computer Networks	23/08/2023	Dr.Geetha Achuthan,AP,National Science Tech	90	POs:1,2,3,5,9,11,12 PSOs: 1,2,3
3	Awareness on Latest tools to carry out project	Two days Hands on Training in Full stack development	04/03/2024	Mr.Anbuselvan A CEO, CyberDude Netwoks.	92	POs:1,2,3,5,11,12 PSOs: 1,2,3
4	Awareness on Latest tools to carry out projects	Hands on training on Software Testing.	03/02/2024	Mrs.S.Anusha, Alumni(2008) Lead Analyst, CGI DLF IT Park Chennai.	88	POs:1,2,3,5 PSOs: 1,2,3
5	Need to increase the use of modern tool to develop cloud environment	Hands on Training in Cloud Computing using Docker.	14/02/2024	Mr.R.Nambi Venkatesh (Alumni 2014 batch) Tech-Lead, Tech Mahindra,Chennai	90	POs:1,2,3,5,11,12 PSOs: 1,2,3
6	Awareness of industry practices and requirements	Industrial visit	04/08/2024	Centre for Development of Advanced Computing(C-DAC) ,Tidel Park, Chennai	95	POs:1,2,3,5,8,10,11,12 PSOs: 1,2,3
7	Awareness of industry practices and requirements	Industrial visit	26/09/2023	Council Of Scientific & Industrial Research(CSIR), Taramani	95	POs:1,2,3,5,8,10,11,12 PSOs: 1,2,3
8	Awareness of industry practices and requirements	Industrial visit	01/11/2023	Indian Space Research Organisation (ISRO), Mahendragiri.	95	POs:1,2,3,5,8,10,11,12 PSOs: 1,2,3
9	Awareness of industry practices and requirements	Industrial visit	23/01/2024	Regional Metrological Centre, Nungampakkam, Chennai	93	POs:1,2,3,5,8,10,11,12 PSOs: 1,2,3
10	Awareness of industry practices and requirements	Industrial visit	31/01/2024	IIT-M Research Park, Taramani	95	POs:1,2,3,5,8,10,11,12 PSOs: 1,2,3

2022-23

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Content beyond syllabus to cover industrial needs	Webinar on Recent Advancement in Wireless communication	10/02/2023	Dr.Ramya AP/ECE Dr.NGP Institute of Tech,Combatore	90	POs:1,2,3,5,11,12 PSOs:1,2,3
2	Content beyond syllabus to cover industrial needs	Webinar Electronic commerce security	15/03/2023	Dr.Vidhya SAP/CSE Amrita College of Engineering	92	POs:1,2,3,5,11,12 PSOs:1,2,3
3	Content beyond syllabus to cover industrial needs	Webinar Pushdown Automata	30/03/2023	Dr.S.Jaba Anandh AP/CSE University College of Enginering	90	POs:1,2,3,5,11,12 PSOs:1,2,3
4	Content beyond syllabus to cover industrial needs	Guest Lecture onCloud Implementation and its Application.	11/08/2022	Mr. Grant Roshan CRM-Practice, Lead Solution Architect. Avasoft.	90	POs:1,2,3,5,12 PSOs:1,2,3
5	Content beyond syllabus to cover industrial needs	Guest Lecture onFull stack web development	06/08/2022	Mr.Anbu Chezian Software developer. NINTO	90	POs:1,2,3,5,12 PSOs:1,2,3
6	Creating awareness on latest trends to attend open ended problems.	Guest Lecture on Road Map to Full Stack Web Development	06/08/2022	Mr.Surya.B Software developer.NINTO	92	POs:1,2,3,5,12 PSOs:1,2,3
7	Awareness on Latest tools to carry out projects	Foundation of Data Science.	10/02/2022	Mr .Sarath Babu Director ADVANTAGE PRO LTD CHENNAI	90	POs:1,2,3,5,12 PSOs:1,2,3
8	Awareness on Latest tools to carry out projects	Guest Lecture onWeb Technology	08/10/2022	Mr.P.Suthahar. Assistant Professor Sri Sairam Institute	90	POs:1,2,3,5,12 PSOs:1,2,3
9	Awareness of industry practices and requirements	Seminar on Artificial Intelligence.	23/07/2022	Mr.Dilli Ganesh. Senior, Data Scientist.Gembrill Technologies. (Alumni 2015)	93	POs:1,2,3,5,12 PSOs:1,2,3
10	Awareness of industry practices and requirements	Three Days Hands-On-Training On Smart Phone Servicing and Troubleshooting	24/08/2022	Mr.B.Krishnakumar Managing Director New Technology. Coimbatore.	90	POs:1,2,3,5,12 PSOs:1,2,3

2021-22

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Awareness on Latest tools to carry out projects	Guest lecture on internet of things	12/06/2021	Dr. A. Krishnamoorthy, Assistant Professor (sr.), VIT Vellore.	90	POs:1,2,3,5,12 PSOs:1,2,3
2	Content beyond syllabus to cover industrial needs	Guest lecture on Software testing in automation	15/09/2021	Ms Soundarya Software Engineer. CEI AMERICA	92	POs:1,2,3,5,12 PSOs:1,2,3
3	Content beyond syllabus to cover industrial needs	Guest lecture on Tips to Crack the Coding	08/09/2021	Mr Sathrya Selvin Software Engineer. Value Labs .	90	POs:1,2,3,5,12 PSOs:1,2,3
4	Content beyond syllabus to cover industrial needs	Guest lecture on Data Science using R	01/10/2021	DR.Sathya Priya Associate professsor - Dept of IT. Velammal Engineering College.	90	POs:1,2,3,5,12 PSOs:1,2,3
5	Content beyond syllabus to cover industrial needs	Guest lecture on Challenges in Hospital Administration	18/10/2021	Mrs.Karthika. Ast.Prof. Dept of IT. St.Joseph College of Engineering.	90	POs:1,2,3,5,12 PSOs:1,2,3
6	Awareness of industry practices and requirements	Guest lecture on Computer Networks	02/11/2021	Mr.Mathivanan, CCNA System and network Administator,Datacenter NIT Nagaland	87	POs:1,2,3,5,12 PSOs:1,2,3
7	Content beyond syllabus to cover industrial needs	Guest lecture on Interfacing Microcontroller	02/11/2021	Dr.S.Ewins Pon Pushpa. Ast.Professor,Dept of ECE .Anna University.	90	POs:1,2,3,5,12 PSOs:1,2,3
8	Improvement in career by set small short-term goals regularly	Guest lecture onCareer opportunities in Abroad	19/03/2022	Mr.Arul. Azent Overseas. Chennai	88	POs:1,2,3,5,12 PSOs:1,2,3
9	Content beyond syllabus to cover industrial needs	Guest lecture onEthics In Engineering	21/03/2022	Ms.Christina Periyanagai Mentor Coding Instructor, Bjus White hatjr.	90	POs:1,2,3,5,12 PSOs:1,2,3
10	Need to know easy tools to develop web design project	Recent Technology In Digital Marketing	24/03/2022	Mr.SasiKumar Software Engineer, HC L Bangalore	90	POs:1,2,3,5,12 PSOs:1,2,3

2.2 Teaching - Learning Processes (100) Total Marks 100.00

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

Institute Marks : 25.00

A) Adherence to Academic calendar

DMI College of Engineering, Chennai, affiliated with **Anna University**, prepares an academic calendar in alignment with the universitys academic calendar. Based on this, the institution formulates a department-specific calendar, referred to as the **"Calendar of Events."** This calendar outlines the planned activities for the semester, including:

- Continuous Internal Evaluation (CIE) schedules
- Parent-teacher meetings
- Workshops and Faculty Development Programs (FDP)
- Industrial visits
- Laboratory sessions
- Semester-end examinations

B. Use of Various Instructional Methods and Pedagogical Initiatives

Faculty members employ a variety of instructional methods to enhance the learning experience, including:

- **Experiential Learning**-Chalk and Talk, ICT Tools (PPT, You tube Videos, Flipped Class room, Animated Videos),
- **Experimental Learning**- Internship, Industrial Visit, Peer Group Learning, Laboratory, Project Based Learning (Mini/Major Projects)
- **Online Courses**- NPTEL, Coursera, Karma etc.
- **Participatory Learning**- Seminar, Symposium, Conferences etc.

1. **Chalk and Blackboard Teaching** – Traditional and effective for concept explanation.
2. **PowerPoint Presentations** – Used for visual representation of concepts.
3. **Demonstrations with Animated Videos/Models** – Helps in understanding complex topics.
4. **Seminars & Group Discussions** – Encourages student engagement and peer learning.
5. **Peer Learning** – Enhances collaborative knowledge sharing.
6. **Mini/Major Projects** – Provides hands-on experience and practical exposure.
7. **NPTEL Videos** – Online courses and lectures from IITs and other premier institutions.
8. **Industrial/Internship Visits** – Exposure to real-world engineering applications.
9. **Great Learning Application** – Online learning platform for skill enhancement.
10. **Self-Learning** – setting their goals, choosing learning materials, and evaluating their progress with faculty guidance
11. **ICT Tools** - Enhance student engagement, and facilitate interactive learning experiences in the classroom

The faculty use **chalk & board** and **audio-visual aids** in teaching. Students are encouraged to actively participate during lectures by **clarifying doubts on the spot**. Faculty members also use **models and charts** for interactive teaching.

For **final-year project work**, faculty members follow structured rubrics and guide students in selecting their project topics. Students are encouraged to undertake **industry and R&D lab projects**. The department assigns projects to final-year students based on their **area of interest** at the start of the semester.

The **seminars and projects** integrated into the curriculum encourage students to refer to relevant **research literature**. Additionally, **guest lectures** are delivered to **pre-final and final-year students** by **industry experts, scientists from R&D labs, and professors from reputed institutes/universities**.

Learning materials from **NPTEL** are available for **e-learning**, and **industrial tours** are organized as per the curriculum. **Pre-final and final-year students** are also encouraged to participate in **internships**, **technical competitions**, and **inter- and intra-college events** to enhance their knowledge and skills.

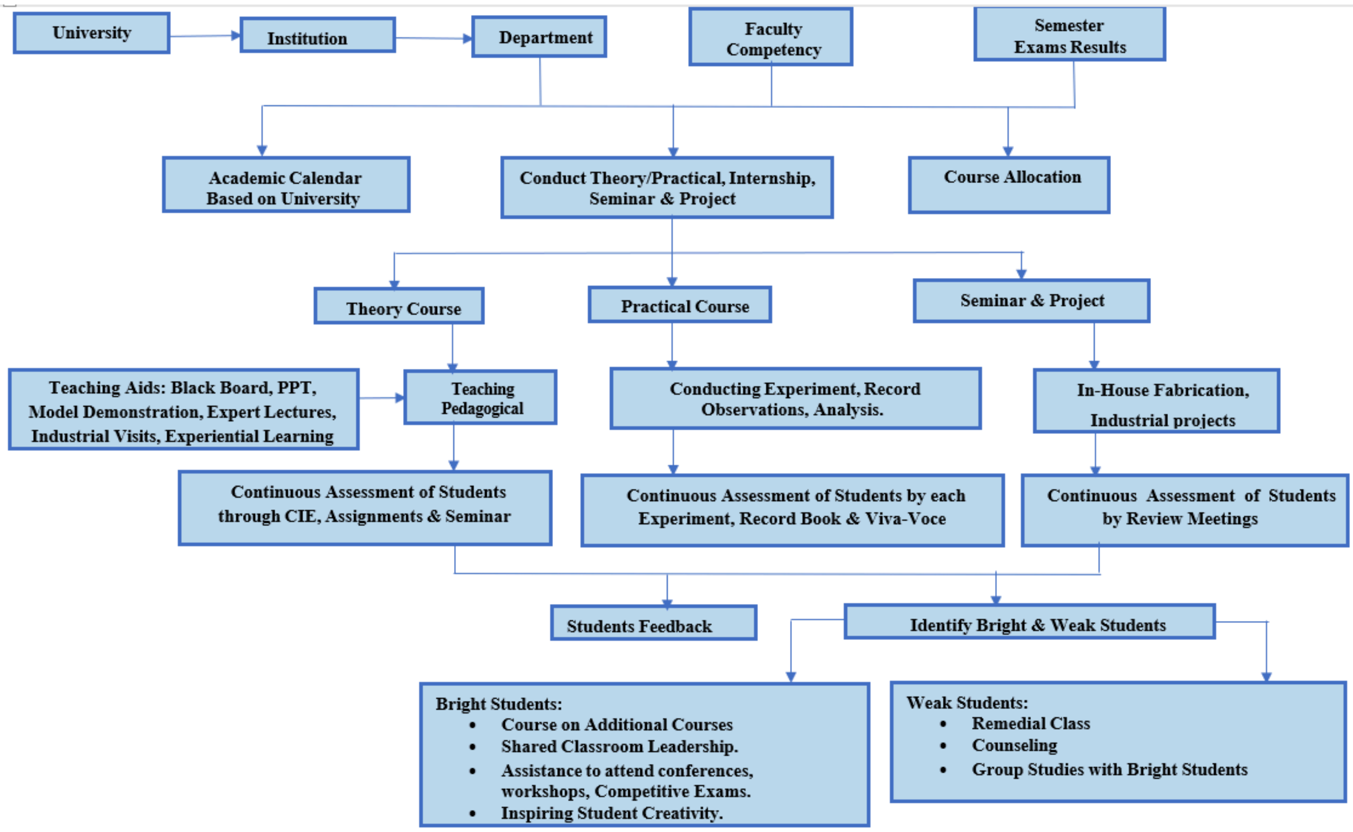


Fig. 2.15: Process Followed to Improve Quality of Teaching and Learning

Experiential Learning

In our department, laboratory experiments go far beyond the standard syllabus, offering students a cutting-edge learning experience. While the core syllabus covers fundamentals, we integrate forward-looking experiments which ensures our students are not just syllabus-compliant but industry-ready.

CS8662 MOBILE APPLICATION DEVELOPMENT LABORATORY

LIST OF EXPERIMENTS

1. Develop an application that uses GUI components, Font and Colors
2. Develop an application that uses Layout Managers and event listeners.
3. Write an application that draws basic graphical primitives on the screen.
4. Develop an application that makes use of databases.
5. Develop an application that makes use of Notification Manager.
6. Implement an application that uses Multi-threading.
7. Develop a native application that uses GPS location information
8. Implement an application that writes data to the SD card.
9. Implement an application that creates an alert upon receiving a message
10. Write a mobile application that makes use of RSS feed
11. Develop a mobile application to send an email.
12. Develop a Mobile application for simple needs (Mini Project)

CS8662-MOBILE APPLICATION DEVELOPMENT LAB	
Title	Develop an application that uses Layout Managers and event listeners.
Software	Android studio
Language	JAVA
Description	Development of Application in Android Studio for Calculator And 2D-Gaming.

Collaborative Learning:

Students share knowledge or discuss topics in small group or in peer mode.

Name of the Department / Club	INFORMATION TECHNOLOGY
Name of the Event	Flutter Basics
Date and Time of the Event	12/04/2024(1:00 pm to 2:00 pm)
Venue	IT Classroom
Name of the Coordinator	Divya.K
Resource person	Harishma.K(Final year student)
Target Audience / Beneficiaries	Students
Number of Participants	45
Objective of the Event	Understanding the basic of App development-cross platform (android and ios mobiles). Understanding of APK, how to develop an app using flutter.
Outcome of the Event	Students able to understand the basic of App development- cross platform development and they learnt about the APK

Alumni Talk:

Apart from academics, the department conducts alumni talks for the students to get the opportunity to interact and discuss with their seniors regarding the current industry trends.

The Information Technology organized an engaging Alumni Talk on Block Chain Technology on 11.08.2023. The session was led by Ms. Pavithra Ashokan, a distinguished alumnus of the IT department, currently Associate Manual Tester at Securekloud Technology. Ms. Pavithra Ashokan shared their journey from being a student to their current professional achievements. Key insights were provided on career paths, industry trends, challenges in the field, etc. Students were particularly motivated by the real-life experiences and anecdotes shared by the speaker

Project Based Learning (PBL):

PBL is significantly more effective than traditional instruction to train competent and skilled practitioners and it promotes long-term retention of knowledge and skills. It is an innovative practice that is used to implement Outcome Based Education system. Students are encouraged to carry out projects to apply their engineering knowledge from fifth semester onwards till eighth semester. Student has to take up project based on their interest with the help of faculty. At the end of each semester, projects are evaluated.

Year/Sermester:IV/ VIII (2023-24)					
Project Team Members					
Sl.No	**Batch**	**Register Number**	**Name of the Student**	**Guide**	**Project Title**
1	Batch-1	210520205001	ABINASH.K	Mrs.M.Maheswari	Prediction Of Solar Power Generation And Radiation Using Machine Learning Algorithms
2		210520205025	JOEL KEVIN.D		
3	Batch-2	210520205002	ABINAYA.B	Mrs.Vinodha	Macula Oct Images Classification Using Deep Learning Techniques
4		210520205045	SUSHMITHA.M		
5	Batch-3	210520205006	ATHIRA.M	Mrs.Mary Diana	Unveiling Fraudulent Transactions Using Logistic Regression
6		210520205024	JAYASRI.S		
7	Batch-4	210520205007	BENYA R.S	Mr. D.Jeba Kingsley	Cadio Insidht: A Hybrid Approach For Data Analytics In Predicting And Managing Heart Diseases
8	Batch-5	210520205008	CALWIN DONALD RAFTER.D	Mrs.Jenifer	A Broad Asssistance On Crisis Circumstances Utlizing Web Application
9		210520205027	KALAIVENDHAN.S		

10	Batch-6	210520205009	DHARMARAJ R	Dr.R.Balamurugan	Intelligent Driver Assistance System For Accident Prevention
11		210520205046	TAMILSELVAN.S		
12	Batch-7	210520205011	DINESH.M	Mrs.Mary Diana	Efficient Web Based Event Mangement System With Automatic Pdf Generation
13		210520205043	SRIGANTH.G		
14	Batch-8	210520205028	KAMALA.B	Mrs.Nageswari	Synergizing Deep Learning And Tkinter For Brain Tumour Detection Interface
15		210520205041	SNEHA.N		
16	Batch-9	210520205013	DURGA.U	Mrs.Jenifer	Prediction Of Cirrhosis And Kidney Disease Using Supervised Machine Learning Technique
17		210520205042	SOWMIYA.S		
18	Batch-10	210520205015	GAYATHRI.B	Mrs.Mary Diana	Analyse And Predict The Airpollution Using Memory Based Approach
19		210520205026	JOSHNA ASRIN.K		
20	Batch-11	210520205016	GAYATHRI.V	Mrs.Subha	Agro Unity Hub-An Enhanced Blockchain Logistic Platform With Lightning Network And Zk-Snarks
21		210520205012	DIVYA.A		
22	Batch-12	210520205018	GOKUL.K	Mrs.M.Maheswari	Hotel Booking System With Augmented Reality
23		210520205049	VIMALRAJ.M		
24	Batch-13	210520205019	HARI.P	Mrs.Subha	Prediction Of Weather And Lightning Forecasting Using Gaussian Approach
25		210520205047	TYSON.P		
26	Batch-14	210520205020	HARI PRASATH.P	Mrs.Nageswari	Integrating Fitness Into Gaming Using Opencv And Mediapipe
27		210520205048	VIGNESH.A		
28	Batch-15	210520205021	HARISHMA.K	Mr.D.Jeba Kingsley	Enhancing Diagnostics: Cnns For Automated Malaria Cell Classification
29		210520205039	SHIYAMALA.S		
30	Batch-16	210520205022	JAGASRI.K	Dr.R.Balamurugan	Nature Disaster Classification Using Tensorflow And Keras Model
31		210520205051	VISHNU PRIYA.V		
32	Batch-17	210520205023	JAMES.A	Mrs.Divya	Implementation Of Efficient Manhole Visual Inspection System Using Deep Learing In Uav Navigation
33		210520205031	MULLAIVENDHAN		
34		210520205701	SIVA.P		
35	Batch-18	210520205029	LARSON JOEL.S.S	Mrs.Jenifer	Virtual Dress Fitting: Automated Try On System For Online Apparel Shopping
36		210520205033	SAMUEL.D		
37	Batch-19	210520205030	MARY HELAN.A	Mr.D.Jeba Kingsley	Model Selection Of Hybird Feature Fusion For Coffee Leaf Classification By Using Artificial Intelligence Techniques
38		210520205301	DHATCHANIY.A		

39	Batch-20	210520205036	SASIKUMAR.M	Mrs.Sylvia Sharon	Network Traffic Cyber Attacks Classification Using Supervised Machine Learning Techniques
40		210520205037	SELVAKUMAR.E		
41		210520205050	VIMALRAJ.V		
42	Batch-21	210520205040	SIVA.M	Mrs.Krishna Malathi	Milk Quality Prediction Using Supervised Machine Learning
43		210520205044	SUDHARSON.S		

Internship: At the end of semester or in vacation time students is allowed to carry out internship in reputed industries/companies to get practical exposure from industries. It helps the students to bridge the gap between the subject's studies and industrial need.

INTERNSHIP DETAILS (2023-2024)					
Sl. No	**Reg. No**	**Name of the Student**	**COMPANY NAME**	**DURATION**	**SPECIALIZATION**
1	210521205001	AARTHI N	NSIC	10.07.2023 to 15.07.2023	ANDROID APP DEVELOPMENT &IOT
2	210521205002	ABISHEK R	JAI BALAJI FABRICATION	13.07.2023 TO 18.07.2023	CLOUD BASED NETWORING
3	210521205003	ABISHEK S	RETECH	10.07.2023 to 24.07.2023	FULL STACK WEB DEVELOPMENT
4	210521205004	AGUSTHIAN D	RETECH	10.07.2023 to 24.07.2023	FULL STACK WEB DEVELOPMENT
5	210521205005	AISHWARYA J	G-MOULDING SOLUTION	06.07.2023 to 17.06.2023	AUTOMOBILE DEVELOPMENT
6	210521205006	AJAY JUDU S	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
7	210521205007	AKASH R	RETECH	10.07.2023 to 25.07.2023	FULL STACK WEB DEVELOPMENT
8	210521205008	ALAGU SIVA A	RETECH	03.07.2023 TO 18.07.2023	PYTHON DEVELOPMENT
9	210521205009	ANNIE RUSHMA	REDISOLVE	01.07.2023 to 31.07.2023	DATA ANAYLST
10	210521205010	AROCKIA PREM KUMAR A	RETECH	01.07.2023 to 15.07.2023	FULL STACK WEB DEVELOPMENT
11	210521205012	DEVADHARSHINI R	Digital EPCS & Seval Software	6 DAYS	FULL STACK WEB DEVELOPMENT
12	210521205013	DHARSHINI S	NSIC	1 WEEK	ANDROID APP DEVELOPMENT &IOT
13	210521205014	DHESAVAN R	NSIC	1 WEEK	ANDROID APP DEVELOPMENT &IOT
14	210521205015	DINESHKUMAR V	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
15	210521205016	FARVESH MUSHRAF S A	RETECH	10.07.2023 to 25.07.2023	FULL STACK WEB DEVELOPMENT
16	210521205017	GOKUL S	AICTE IDEA LAB	11.07.2023 to 26.07.2023	IOT
17	210521205018	GOPINATH G	RETECH	10.07.2023 to 25.07.2023	FULL STACK WEB DEVELOPMENT
18	210521205019	HARSHA VARTHINI J U	UST GLOBAL	10.07.2023 to 02.08.2023	DATA ANALYST
19	210521205020	HEMARAJ T	RETECH	01.07.2023 to 15.07.2023	FULL STACK WEB DEVELOPMENT
20	210521205021	IMMACULATE A	Fresh data labs	4 WEEKS	FULL STACK WEB DEVELOPMENT
21	210521205023	JAYASRI R	AICTE IDEA LAB	11.07.2023 to 26.07.2023	IOT
22	210521205024	JAYA VARSHINI K	NSIC TSC	06.07.2023 TO 12.07.2023	FRONTEND DEVELOPMENT

23	210521205025	JESICA MARY P	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
24	210521205026	KARTHIKEYAN K	AICTE IDEA LAB	11.07.2023 to 26.07.2023	IOT
25	210521205027	KATHIRVEL A	RETECH	10.07.2023 to 24.07.2023	FULL STACK WEB DEVELOPMENT
26	210521205028	KEERTHANA L	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
27	210521205029	KEERTHICK RAJA P	RETECH	10.07.2023 to 25.07.2023	FULL STACK WEB DEVELOPMENT
28	210521205030	KENITH RAJ ANTONY L	ALFARE TECHNOLOGIES	25.06.2023 to 10.07.2023	FRONTEND DEVELOPMENT
29	210521205031	KUMARAGURU G	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
30	210521205034	MOHANRAJ R	RETECH	03.07.2023 TO 18.07.2023	FULLSTACK WEB DEVELOPMENT
31	210521205035	MURUGADASS A	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
32	210521205036	NARENDRAN K	RETECH	26.07.2023 to 09.07.2023	FULL STACK WEB DEVELOPMENT
33	210521205038	POOJA S	NSIC	10.07.2023 TO 16.07.2023	ANDROID APP DEVELOPMENT &IOT
34	210521205039	PRAKASH K	RETECH	26.06.2023 to 09.07.2023	FRONTEND DEVELOPMENT
35	210521205040	RAJESWARI V	G-MOULDING SOLUTION	6.07.2023 to 17.07.2023	AUTOMOBILE DEVELOPMENT
36	210521205042	RAMYA P	Fantasy Solution	12.07.2023 to 22.07.2023	FRONTEND DEVELOPMENT
37	210521205044	SABARISH S	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
38	210521205045	SAKTHIVEL P	WINGS SCIENTIFIC SOLUTION PVT LTD	30 DAYS	IOT
39	210521205046	SANJAY M	RETECH	03.07.2023 to 18.07.2023	CORE JAVA
40	210521205047	SATHISH KUMAR P	RETECH	12.07.2023 to 27.07.2023	CORE JAVA
41	210521205048	SELVIN PAULRAJ K	Servimos Technology Pvt LTD	1 MONTH	FULL STACK WEB DEVELOPMENT
42	210521205049	SIVASUKI S	UP2DATEZ BUSINESS	20.06.2023 to 15.07.2023	FRONTEND DEVELOPMENT
43	210521205050	SNEHA S	NSIC	10.07.2023 to 15.07.2023	ANDROID APP DEVELOPMENT &IOT
44	210521205051	SRIRAM K	RETECH	03.07.2023 to 18.07.2023	IOT
45	210521205052	SUNDAR P	EMPOWER GUIDANCE CENTRE	14.07.2023 to 31.07.2023	FRONT END DEVELOPMENT
46	210521205053	SURRYA GANESH V L	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
47	210521205054	VENKATKUMAR K R	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
48	210521205055	VIDHUN K	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
49	210521205056	VIGNESH WARAN K	RETECH	03.07.2023 TO 18.07.2023	CORE JAVA
50	210521205058	VIMALRAJ J	RETECH	10.07.2023 to 24.07.2023	IOT
51	210521205059	YOKESHWARAN S	RETECH	26.06.2023 to 09.07.2023	CORE JAVA
52	2105212050501	ATHIYAMAN	RETECH	12.07.2023 to 27.07.2023	CORE JAVA

· **Workshops:**

Department organizes workshops to facilitate the students in having a hands on training in a specific domain. These workshops enable students in learning and realizing new and latest technologies. The students get a platform to exhibit their ideas and implement them in reality.

S. NO	DATE	EVENT DESCRIPTION	YEAR	RESOURCE PERSON
1	11-08-2023	One Day Workshop On Block Chain Technology	III	Ms. Pavithra Ashokan & Ms. Shree Kalyaane (Alumini) Chennai.
2	30-01-2024 & 01-02-2024	Mobile Application Development	III	Mr. M. Gokul, Technical Lead, Pocket Technology, Chennai
3	03-02-2024	Software Testing	III	Mrs. S. Anusha, Lead Analysit, CGI, Chennai.
4	14-2-2024	Cloud Computing Using Docker	III	Mr. R. Nambi Venkatesh, Tech Mahindra, Chennai
5	04-03-2024 & 05-03-2024	Full Stack Web Development	II	Mr. A. Anbuselvan, CEO, Cyberdue Networks Pvt Ltd.

Employability Enhancement Training:

To equip students with essential skills for the competitive job market, organized an **Employability Enhancement Training Program** on 28.10.2024 . The training aimed to bridge the gap between academic learning and industry expectations, fostering skills that enhance students career readiness.

Industrial Visit:

Industrial visits are arranged to get the student's acquainted with industrial environment and work ethics.

S.NO	Date	Year	Industry
1	22-9-2023.	II Year	Center for Development of Advanced Computing(C-DAC) , Tidel Park,Chennai
2	26-09-2023.	III Year	Council Of Scientific & Industrial Research(CSIR), Taramani, Chennai
3	1.11.2023.	II & III Year	Indian Space Research Organisation (ISRO), Mahendragiri
4	24-01-2024	III Year	Regional Metrological Centre, Nungambakkam, Chennai
5.	08.02.2024	Final Year	Indian Space Research Organisation (ISRO), Sathish Dhawan Space centre as a part of Educational Tour
6.	05.April. 2024.	Third Year	PhantomFX, Chennai as a part of the Industrial Visit
7.	31.01.2024	Final Year	IIT Research Park

Google Classroom:

The Google classroom is an innovative tool which is very effectively used in our campus for every course. Faculty members add all students to it before commencement of every semester for every course. They also upload course plans, eBooks, course materials, video lectures, question banks etc. It helps the students to come prepared to the class. The tools in the Google class room facilitate online assessment of students, which can be used to measure the outcomes of each course.

Role play:

Role play is incorporated in participatory learning that enables the students to get a visual impact of the concepts. This improves the understanding ability of slow learner students also. Students are made to enact the concepts pertaining to topics which are confusing or difficult to understand

Debates:

Structured debates spark lively participation. Technical topics see students diving deep into research, arguing passionately. These debates teach critical thinking, persuasive communication, and the importance of evidence-based arguments in tech discourse.

Technical Club activities:

Our clubs are participatory learning hubs. The Coding club hosts coding classes and quizzes where members collectively organize and participate to conduct and solve challenging problems. The App development club enables the students to update themselves with recent technologies. Such peer-driven activities foster a community of continuous, shared learning.

Flipped Learning:

The institution uses Flipped Learning, a student-centered approach that involves technology- based instructional content outside the classroom, to promote active learning and engage students in interactive discussions, problem-solving, and application of concepts during class time.

Problem Solving Methods

The problem-solving methodologies, including complex thinking, design thinking, and analysis, help students understand situations and come up with alternatives. They also aid in the development of student's critical thinking skills. Some of the tools and methodologies used by the institution include:

1. MCQ:

Multiple-choice tests are conducted frequently to assess students knowledge and understanding of logical thinking and analytical skills. MCQs are transformed from simple recall tests into problem-solving exercises. Students must quickly analyze the situation, apply the concepts, and deduce the most probable issue. This approach teaches rapid problem assessment and decision-making skills critical in various roles.

2. Hackathons :

Students are encouraged to participate in Hackathons where they experience working under pressure, learn to decompose complex problems, prototype rapidly, and pivot strategies—mirroring the fast-paced problem-solving demanded in tech start-ups. The students have showcased their ability by winning prizes.

3. Case Study:

Real-world case studies are conducted that replace theoretical lectures. Case studies teach root cause analysis, system thinking, and the critical importance of rigorous testing especially when lives are at stake.

C) Methodologies to support weak students and encourage bright students

Mentoring and counselling system

The department places a strong emphasis on mentoring and counselling to support students overall development and well-being. It enables Monitoring Student Regularity and Discipline, Strengthening Teacher-Student Relationships, Addressing Student Concerns and Enhancing Well-being and Career Guidance and Pathway Planning.

The Mentoring schedule involves the following:

- The Mentors meet the students associated with them once in every week.
- The Parents/Guardians of poor attendee/performance students are called to meet the mentors and corrective and preventive measures are implemented for further improvement.
- Each mentor maintains the entire student Information, which is examined by the HOD and others concerned when necessary.
- Periodic meetings are conducted by the Principal with HODs to review the punctuality and regularity of students.

Weak students are identified based on multiple parameters, including:

- Classroom discussions
- Performance in Continuous Internal Evaluation (CIE)
- University result analysis

To support weak students, the following measures are taken:

1. Remedial Classes – Conducted to strengthen concepts, knowledge, and skills in specific courses.
2. Tutorial Classes – Provided to improve problem-solving skills through direct interaction between students and faculty members.
3. Mentorship Program – Faculty mentors guide students, boost their confidence, and help remove psychological barriers to learning.

Action taken for weak Students:

IDENTIFICATION CRITERIA	ACTIONS TAKEN
Students fail in previous semester exams	• Special Coaching classes are arranged by course faculty. • Periodic counselling is given to the students having backlog subjects by mentors.
Students scoring less than 50% of marks in Internal Assessment	• Mentors follow their progress regularly advising students about attending classes, making up for classes missed, and getting additional help. • Conduct special session for students.
Students weak in programming skill	• Hands-on sessions are organized. • Provide platform for peer learning by means of student clubs.

Impact of Weak students Analysis:

The analysis of weak students performance has led to significant improvements in our educational approach. Firstly, weve implemented targeted remedial programs that address specific skill gaps identified through the analysis. As a result we have achieved increase in pass rates among previously struggling students. Secondly, the insights gained have prompted a revision of our teaching methodologies, incorporating more interactive and diverse learning techniques, which has improved overall student engagement and comprehension across all academic levels. Lastly, this analysis has fostered a more proactive mentoring system, where at-risk students are identified early and provided with personalized support, leading to reduction in dropout rates and a noticeable boost in student confidence and academic performance.

Methodologies to Encourage Bright Students

Bright students are identified based on their:

- Participation in classroom discussions
- Performance in assessment tests
- Engagement in seminars and questioning ability
- University result analysis

Action Taken for Bright Students

IDENTIFICATION CRITERIA	**ACTIONS TAKEN**
Students having potential of securing University ranks	Distribution of Gold medals and cash prize.
Students securing more than 7.5 CGPA in their Semester exams	Mementos are also distributed to motivate them to continue their Excellency in academics.
Top two students of each class	Awarded with mementos

Impact of Bright students Analysis:

The analysis of bright students performance has significantly enhanced our placement outcomes. Our top-performing students have secured prestigious positions in leading multinational corporations and innovative start-ups. Our analysis of bright students performance has opened up exceptional internship opportunities at industry-leading companies. These internships have resulted in pre-placement offers, giving our bright students a significant advantage in launching their careers at prestigious firms even before graduation.

To encourage bright students, the following initiatives are implemented:

1. Industry-Based Projects **– Students are encouraged to take up** industry-based projects **in advanced topics under faculty guidance.**
2. Leadership in Student Associations **– Bright students are encouraged to lead the** Student Association Team**, organizing activities such as** paper presentations, poster presentations, and lecture series**.**
3. Best Academic Performance Awards **–** The top three students **with outstanding performance in university exams receive awards.**
4. Campus Recruitment Training (CRT) **– Special training sessions are conducted to help students** prepare for campus placements **and enhance their employability skills.**

D) Quality of classroom teaching

- Each lecture session is scheduled for **50 mins**.
- Faculty members actively engage students by **reviewing previous lectures, asking questions, and encouraging interaction**.
- Technology-Driven Instruction: Faculty members utilize computers, smart boards, LCDs, and online resources such as NPTEL to facilitate interactive and engaging learning.
- Well-Structured Lesson Plans: Comprehensive lesson plans are prepared, periodically revised, and reviewed by the Head of the Department (HOD) to ensure consistency and effectiveness. These plans are also made available online for student access.
- Regular Monitoring & Feedback: The HOD systematically observes classroom sessions and submits reports to the
- Quality Assurance Cell. Based on these reports, necessary improvements are implemented.
- Continuous Faculty Development: Faculty members are encouraged to adopt modern pedagogical techniques, attendtraining programs, and integrate innovative teaching methodologies to enhance student engagement and learning outcomes.
- At the end of the lecture, students are encouraged to **summarize key points and ask doubts**.
- Faculty members leverage resources such as **NPTEL, online sources, and interactive tools** to enhance teaching effectiveness.

E. Conduct of Laboratory Experiments

1. The curriculum is designed to provide **hands-on experience** to strengthen theoretical concepts.
2. **Orientation programs** are conducted for teaching and non-teaching staff on **experiment procedures, data analysis, and evaluation methods**.
3. The department is **fully equipped** with the necessary **laboratories, software, and models** as per curriculum requirements.
4. **Printed laboratory manuals** are provided to each student, covering all **experiment details, observations, and discussions**.
5. Faculty members **regularly evaluate** laboratory records to ensure accuracy and thorough understanding.
6. Faculty members handling laboratory courses are encouraged to **introduce new experiments beyond the curriculum**, with a focus on **R&D-oriented learning**.
7. **Internal assessment** of students in laboratory sessions is based on:

- **Performance in regular experiments**
- **Quality of lab reports**
- **Internal viva examinations**

8. **External examination** in the concerned lab is conducted by **two examiners**, including an **internal examiner from the college** and an **external examiner appointed by the university**.
9. Students are encouraged to undertake **development- and fabrication-oriented projects**, primarily using the **colleges facilities**.
10. The department has established a **Project Lab and Research Centre** to bridge the gap between curriculum requirements and real-world technical advancements.

F. Continuous Assessment in the Laboratory

A **continuous assessment system** is implemented for evaluating laboratory work. Students are assessed based on:

- Submission of laboratory records
- Understanding of the experiment through oral viva-voce questions
- Active participation in performing the experiment
- Neatness and organization of the laboratory record book

G. Student Feedback on Teaching-Learning Process and Actions Taken

Faculty feedback performance for every course is assessed from students based on various parameters, including:

1. Creating interest in the subject
2. Regularity in handling classes

3. Presentation of the subject matter
4. Audibility and clarity of speech
5. Interaction with students
6. Ability to clarify students doubts
7. Fairness in evaluating **Internal Assessments (IA) and assignments**
8. Designing quizzes, tests, assignments, and projects to evaluate students understanding
9. Encouraging student participation and inquiry
10. Achievement of course objectives and outcomes

Actions Taken Based on Feedback:

1. **Lecture classes are monitored** by senior professors and the Head of the Department, who provide constructive feedback to improve teaching quality.
2. **Faculty members with low feedback scores** are counseled by the **HOD**, and negative comments in the feedback are used to motivate them to **improve their skills and abilities**.
3. If required, **training/orientation programs** are conducted by **professional experts** to help faculty members **enhance their teaching methodologies**, thus improving the **efficiency of the teaching-learning process**.

2.2.2 Quality of internal semester Question papers, Assignments and Evaluation (20) Institute Marks : 20.00

Our college conducts two Internal Assessment Tests (IAT-I & IAT-II) and a Model Exam.

- IAT-I covers Unit I & II
- IAT-II covers Unit III & IV
- Model Exam covers all five units (I, II, III, IV, V)

Each exam lasts three hours, and the question paper is designed to help students develop effective time management skills. The internal tests consist of 100 marks, with a focus on subjective questions to assess students understanding thoroughly.

Initiatives:

- The Exam Cell or Examination Committee is responsible for preparing the exam schedule for internal assessments and semester-end examinations.
- The schedule is planned well in advance to provide ample preparation time for both students and faculty.
- It is carefully aligned with the academic calendar to avoid conflicts with important events, activities, or holidays.

- Once finalized, the exam schedule is widely communicated to students, faculty, and administrative staff through official circulars, ensuring clarity on exam dates and timings.

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

The process for conducting Internal Assessment Tests (IATs) involves the following steps:

1. Internal semester Question Paper Setting:

- Course in-charges are responsible for preparing the internal semester question papers for their respective subjects and multiple question papers are collected from the course instructors and best among them is selected by the COE.
- A comprehensive question bank is maintained for each subject, serving as a reference for selecting questions.
- While setting the question paper, all previous university exam question papers for the subject are thoroughly reviewed and taken into consideration. This ensures that the question paper aligns with the university exam pattern and covers relevant topics and concepts.
- Questions are designed based on course Outcome and Blooms Taxonomy levels, ranging from lower-order thinking skills to higher-order cognitive skills. This includes questions that assess abilities such as analyzing problems, implementing modern tools, and formulating problems.
- Questions are prepared with varying levels of difficulty, ranging from straightforward to challenging. This approach ensures that the question paper accurately assesses students understanding and abilities across different proficiency levels.

2. Evaluation:

- Exam Cell will conduct the exams and answer scripts are evaluated by the Concern course In-charges. Department Exam coordinator will consolidate the marks after two days of the exam.
- For any genuine reasons, if a student was unable to perform well in the given internal assessment tests, improvement test is given to him/her. If a candidate remains absent for all the tests conducted, the Internal assessment marks are marked as “Absent” in the result.
- Students’ Progress report will be send to their parents

3. Effective Process implementation:

- Department categorize the students such as bright, average and slow learners based on their marks.
- Effective and special coaching class will be conducted for the slow learners by the subject experts.

Students Level Analysis:

Level 1: Internal Assessment Test marks > 80 % = Bright Students

- Mementos are distributed to motivate them to continue their Excellency in academics.
- Conducting brainstorming sessions to trigger their innovative ideas and motivate them to implement the social relevance projects.
- Giving special coaching to achieve university ranks.
- Motivate them to write various entrance exams (GATE, GRE etc. for higher education.

Level 2: Internal Assessment Test marks 50 % to 80 % = Average Students

- Student mentors follows their progress regularly advising students about attending classes, making up classes missed, and getting additional help
- Repeated University questions test to make them to get more marks
- Taking necessary actions to promote them to the next level
- Concentrating on analytical papers
- Motivating them through Parent teachers Association
- Encourage them to implement the innovative ideas as the projects
- Encourage them to participate in various activities of the department and also Colleges.

Level 3: Internal Assessment Test marks < 50 % = Slow Learners

- Concentrate on two marks questions
- Repeated University questions test to make them pass marks
- Refreshment course for Analytical papers before the university exams
- Regularly Counseling them in all aspects
- Help them by conducting regular Coaching Classes to clear the papers
- Student mentors follows their progress regularly advising students about attending classes, making up classes missed, and getting additional help.
- Conduction of extra classes to those who failed in previous semester subjects.

B) Process to ensure questions from outcomes/learning levels perspective:

The effectiveness of the question paper in evaluating the attainment of course and program outcomes depends on several factors, including the alignment of questions with Course Outcomes (COs) and Revised Blooms Taxonomy (RBT) levels, comprehensive content coverage, well-designed and unambiguous questions, a clear marking scheme and rubrics, appropriate weightage and distribution of marks across COs and RBT levels, and a robust moderation and review process involving subject matter experts. The effectiveness of the question paper in evaluating the attainment of course and program outcomes depends on several factors:

1. The effectiveness of the question paper in evaluating the attainment of course and program outcomes depends on several factors:
    - Course Outcomes (COs): The question paper should be designed to assess the specific course outcomes defined for the subject, ensuring that the questions align with the intended learning objectives.
    - Program Outcomes (POs): The questions should be framed in a way that contributes to the evaluation of the program outcomes, which are the broader skills and competencies that students are expected to develop through the program.

- Mapping of COs with POs: The alignment between course outcomes and program outcomes should be established, ensuring that the questions in the question paper are mapped to the relevant COs and POs.
- Quality of Questions: The quality of questions in the internal assessment is crucial for achieving the desired outcomes. The questions should be designed to assess various levels of cognitive abilities, such as knowledge, comprehension, application, analysis, synthesis, and evaluation.

C) Evidence of COs coverage in class test / mid-term tests

The Internal Assessment (IA) tests are conducted based on the syllabus covered by the faculty. The question papers for these tests are prepared with the following considerations:

- Question Mapping: Each question in the test should be mapped to the corresponding COs it intends to assess. This mapping should be clearly documented, indicating which COs are being evaluated by each question.
- Content Coverage: The test questions should collectively cover all the essential topics and concepts related to the COs. A content mapping matrix can be created to ensure that the entire COs is adequately represented in the test.
- Question Paper Analysis: After the test, a detailed analysis of the question paper can be conducted to determine the extent to which each CO was assessed. This analysis can involve examining the distribution of marks across different COs, the cognitive levels of the questions, and the performance of students in questions related to each CO.
- Student Performance Analysis: The performance of students in questions related to specific COs can be analyzed to identify areas where students struggled or excelled. This information can provide insights into the effectiveness of teaching and learning processes in relation to the attainment of COs.

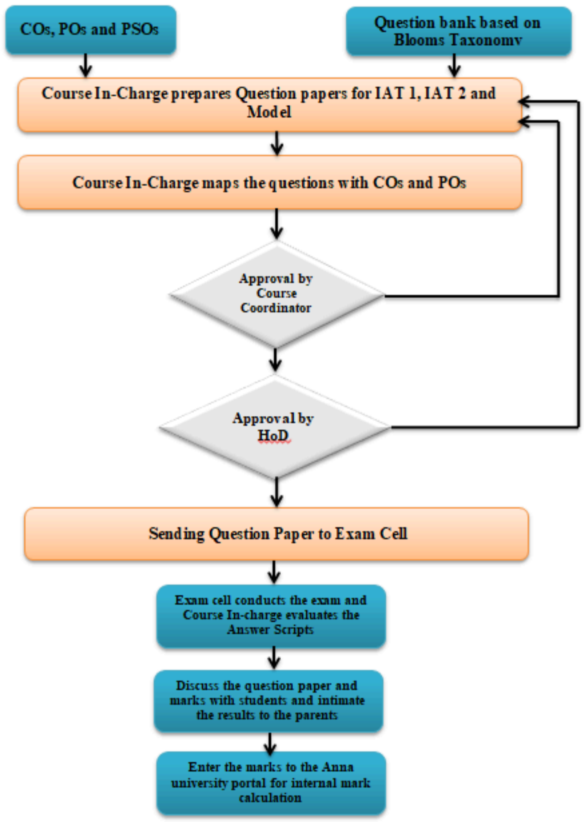


Figure 2.2.3: Internal Test Evaluation

D. Quality of Assignment and its relevance to CO's

Assignments are an integral part of the continuous assessment process, helping students apply, analyze, and reinforce their acquired knowledge:

- Students receive assignment questions designed to deepen their understanding.
- Students are required to complete and submit their assignments within a week of receiving them.
- Each assignment question is carefully mapped to Course Outcomes (COs), enabling students to clearly understand the expected learning outcomes of the subject.

2.2.3 Quality of student projects (25) Institute Marks : 25.00

A) Identification of projects and allocation methodology to Faculty Members

The final year project is a pivotal part of a student's academic development, spanning an entire semester and providing a platform for practical application, problem-solving, and personal growth. The process unfolds as follows:

- The project begins with an orientation session conducted by the project coordinator, providing clarity on expectations, timelines, and the overall process
- Students are encouraged to select project topics that align with their personal interests while also resonating with the department's mission, vision, and program outcomes. Guidance is provided to help students consult reputed journals to identify relevant problem statements.
- Once topics are selected, faculty members review them and match students with appropriate supervisors based on their expertise and areas of focus.
- Under the mentorship of their assigned supervisor, students undertake a structured process:
- Conducting a literature survey to understand existing research.
- Formally articulating the problem statement and defining the scope of work.
- Implementing solutions and testing their outcomes.
- The supervisor and an advisory committee regularly monitor the student's progress, ensuring steady advancement and the maintenance of quality.
- The project is designed to enhance practical skills, introduce industry-relevant tools and techniques, and foster problem-solving capabilities to address real-world engineering challenges.
- Students also engage in teamwork, learning to collaborate effectively with peers, faculty, and industry partners, mirroring the collaborative nature of professional environments.
- Ultimately, the final year project serves as a capstone experience, bridging academic knowledge with practical application, personal development, and preparation for the professional world.

Step by step procedure for team and guide allotment:

1. Project team size of minimum of 2 and should not exceed 4 .
2. Project coordinator collects the teams ideas and domains
3. Department Academic and Assessment committee will allot the guides based on their domain specializations.
4. Regularly conducting 3 reviews to assess the projects with panel members

Students regularly present their project progress to a review committee during each implementation stage. These review meetings serve as critical checkpoints where the committee evaluates the work completed. Following each presentation, students receive detailed feedback on their performance that guides the students for improving the quality of their work. By incorporating the committees suggestions, students can refine their projects, address any weaknesses, and enhance the overall standard of their work.

B) Types and relevance of the projects and their contribution towards attainment of POs and PSOs

The projects are mapped with POs and PSOs and the attainments are assessed based on the following:

- Fundamental Understanding
- Problem Definition & Analysis
- Approach & Methodology
- Application of Modern Tools
- Societal Impact & Relevance
- Future Potential & Research Directions
- Innovation & Originality
- Collaboration & Team Dynamics
- Effective Communication & Documentation
- Project Feasibility & Management

Relevance of POs and PSOs with student's Projects for Academic Year 2023-24

Sl.No	Reg no	Name of the Student	Domain	Project title	Attainment of POs and PSOs
1	210520205001	ABINASH.K	Machine Learning	Prediction Of Solar Power Generation And Radiation Using Machine Learning Algorithms	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
2	210520205025	JOEL KEVIN.D			
3	210520205002	ABINAYA.B	Deep Learning	Macula Oct Images Classification Using Deep Learning Techniques	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
4	210520205045	SUSHMITHA.M			
5	210520205006	ATHIRA.M	Machine Learning	Unveiling Fraudulent Transactions Using Logistic Regression	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
6	210520205024	JAYASRI.S			
7	210520205007	BENYA R.S	Machine Learning	Cadio Insidht: A Hybrid Approach For Data Analytics In Predicting And Managing Heart Diseases	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3

8	210520205008	CALWIN DONALD RAFTER.D	Cloud Computing	A Broad Asssistance On Crisis Circumstances Utlizing Web Application	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
9	210520205027	KALAIVENDHAN.S			
10	210520205009	DHARMARAJ R	Data Science	Intelligent Driver Assistance System For Accident Prevention	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
11	210520205046	TAMILSELVAN.S			
12	210520205011	DINESH.M	Cloud Computing	Efficient Web Based Event Mangement System With Automatic Pdf Generation	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
13	210520205043	SRIGANTH.G			
14	210520205028	KAMALA.B	Deep Learning	Synergizing Deep Learning And Tkinter For Brain Tumour Detection Interface	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
15	210520205041	SNEHA.N			
16	210520205013	DURGA.U	Machine Learning	Prediction Of Cirrhosis And Kidney Disease Using Supervised Machine Learning Technique	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
17	210520205042	SOWMIYA.S			
18	210520205015	GAYATHRI.B	Artificial Intelligence	Analyse And Predict The Airpollution Using Memory Based Approach	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
19	210520205026	JOSHNA ASRIN.K			
20	210520205016	GAYATHRI.V	Blockchain	Agro Unity Hub-An Enhanced Blockchain Logistic Platform With Lightning Network And Zk-Snarks	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
21	210520205012	DIVYA.A			
22	210520205018	GOKUL.K	Augmented Reality	Hotel Booking System With Augmented Reality	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
23	210520205049	VIMALRAJ.M			
24	210520205019	HARI.P	Machine Learning	Prediction Of Weather And Lightning Forecasting Using Gaussian Approach	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
25	210520205047	TYSON.P			
26	210520205020	HARI PRASATH.P	Augmented Reality	Integrating Fitness Into Gaming Using Opencv And Mediapipe	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
27	210520205048	VIGNESH.A			
28	210520205021	HARISHMA.K	Deep Learning	ENHANCING DIAGNOSTICS: Cnns FOR AUTOMATED MALARIA CELL CLASSIFICATION	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
29	210520205039	SHIYAMALA.S			
30	210520205022	JAGASRI.K	Machine Learning & Deep Learning	Nature Disaster Classification Using Tensorflow And Keras Model	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
31	210520205051	VISHNU PRIYA.V			

32	210520205023	JAMES.A	Deep Learning	Implementation Of Efficient Manhole Visual Inspection System Using Deep Learing In Uav Navigation	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
33	210520205031	MULLAIVENDHAN			
34	210520205701	SIVA.P			
35	210520205029	LARSON JOEL.S.S	Artificial Intelligence	Virtual Dress Fitting: Automated Try On System For Online Apparel Shopping	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
36	210520205033	SAMUEL.D			
37	210520205030	MARY HELAN.A	Artificial Intelligence	Model Selection Of Hybird Feature Fusion For Coffee Leaf Classification By Using Artificial Intelligence Techniques	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
38	210520205301	DHATCHANIY.A			
39	210520205036	SASIKUMAR.M	Machine Learning	Network Traffic Cyber Attacks Classification Using Supervised Machine Learning Techniques	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
40	210520205037	SELVAKUMAR.E			
41	210520205050	VIMALRAJ.V			
42	210520205040	SIVA.M	Machine Learning	Milk Quality Prediction Using Supervised Machine Learning	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12,PSO1,PSO2,PSO3
43	210520205044	SUDHARSON.S			

C) Process for monitoring and evaluation

- Project reviews are conducted three times in a semester by a team of faculty members.
- Project students should meet their respective guide periodically and asked to explain their progress they have done in their project.
- Team should submit project progress report to project coordinator during the review.

General Instruction:

- All the students must provide the project batch details and title on or before the specified date
- Maximum 4 students are allowed in a batch
- Change of Project / Team members will not be entertained once the project is confirmed.
- Meet the internal guide and get the approval before each review date; otherwise you will not be allowed to attend the review.
- Maintain formal dress code (neatly shaved, shoes, id & tie is mandatory, no casual outfit) at the time of project review.
- Internal Mark is awarded based on review performance.
- Prepare PPT presentation and update the project file for each review.
- All the team members must present for each review. Attendance is compulsory.
- Each batch should publish at least one technical paper in a Journal or International Conference before Review-III
- Hard copy of the Project Report should be submitted during Review-III
- Suggestions are given and documented in the project evaluation sheet by faculty members.
- Project guide takes care of compliance of suggestions.

Evaluation

- As per project review reports internal evaluation is done.
- At the end of semester a report is submitted by the students. Midterm evaluation is done based on presentation and midterm report submission.
- Final evaluation is based on presentation, report submitted, examination and demonstration.
- The ethical values are imbibed through proper referencing. The project is evaluated by Project Coordination committee which consists of subject expert within the department and an expert from outside the college. All the POs and PSO's are attained.

REVIEW – I:

PPT presentation should include:

- Objective
- Abstract
- Literature survey (minimum 8 Papers)
- Existing/proposed system
- System architecture
- Conclusion
- Reference

REVIEW – II:

PPT presentation should include:

- Objective
- Abstract

- Literature review (minimum 10 Papers)
- Existing/proposed system
- System architecture
- Module Description (algorithm/flow chart/use case diagram)
- Implementation of minimum 60% of the project
- Conclusion
- Reference

REVIEW – III:

PPT presentation should include:

- Objective
- Abstract
- Literature review (minimum 12 Papers)
- Existing/proposed system
- System architecture
- Module Description (algorithm/flow chart/use case diagram)
- Implementation of full project (source code/demo)
- Conclusion
- Reference

PROJECT MARKS SPLIT UP:

Project Evaluation Rubrics (R2017)

REVIEW1	REVIEW2	REVIEW3	END SEMESTER EXAMINATION				
			THESIS SUBMISSION (30)		VIVA-VOCE (50)		
			Internal	External	Internal	External	Supervisor
5	7.5	7.5	15	15	15	20	15

Project Evaluation Rubrics (R2021)

REVIEW1	REVIEW2	REVIEW3	END SEMESTER EXAMINATION				
			PROJECT REPORT		VIVA-VOCE EXAMINATION		
			Internal	External	Internal	External	Supervisor
10	15	15	10	10	10	20	10

D) Process to assess individual and team performance

- Project reviews are conducted once in every month by the team of their respective guide, a professor cadre faculty, an Associative professor and an Assistant professor.
- The project review should be given by all the project team members according to the division of project.
- Each student in the project team is assessed to their skill set to deliver their work, explain the concept and way to make project assess team to understand their work.
- Each individual and team performance is purely based on this project presentation and the viva voce and progress work they show to their guide.

E) Quality of completed projects/working prototypes

- Final project demo for the working prototype and the report are evaluated by the project review committee members.
- Project expo is conducted to evaluate the quality of projects. Best projects are awarded with cash prize. Final project demo for the working prototype and the report are evaluated by a team of their respective guide, a professor cadre faculty, an Associate professor and an Assistant professor.
- The projects are evaluated and are awarded assessment marks for maximum 100 and are graded according to the project contribution towards attainment of PO's and PSO's.

Quality of the students projects are evaluated based on the following rubrics:

- Presentation
- Content
- Demo
- Viva
- Social Impact
- Modern Tool Usage
- Conference and Journal Publication

List of Best Projects of Academic Year 2023-24

S.NO	PROJECT TITLE	NAME OF THE TEAM MEMBERS

1	Prediction Of Solar Power Generation And Radiation Using Machine Learning Algorithms	ABINASH K JOEL KEVIN
2	Analyze And Predict The Air pollution Using Memory Based Approach	GAYATHRI.B JOSHNA ASRIN.K
3	Hotel Booking System With Augmented Reality	GOKUL K VIMALRAJ M

F) Evidences of papers published /Awards received by projects etc.

Table 2.19. Number of paper published during the year 2022 to 2024

S.NO	Academic year	Number of Batches	No of Papers Published In Conference / Journals
1	2023-2024	22	20
2	2022-2023	26	22

2.2.4 Initiative related to industry interaction (15) Institute Marks : 15.00

The Industry-Institute Interaction activities conducted throughout the four-year college/department program play a crucial role in preparing students for real-world challenges and enhancing their industry readiness. This formal platform facilitates a two-way exchange, enabling both students and faculty members to gain insights into industry expectations and align their skill sets accordingly. The gracious involvement of industry experts and department alumni significantly contributes to this process through expert talks, guest lectures, workshops, project guidance, and industrial training opportunities. These collaborative efforts equip students with the necessary knowledge and skills to meet the requirements of their future roles effectively.

A) Industry Sponsored Laboratories

Industry-supported laboratories enhance the learning process by providing students and faculty members with a comprehensive understanding of industry best practices. These laboratories facilitate meaningful practical sessions by incorporating the development of functional prototype models that demonstrate core subject concepts. Additionally, collaboration with key industry partners who have established products in the market allows for the exploration of real-world industrial applications. This hands-on approach, combined with industry insights, enables students to gain practical experience and a deeper grasp of theoretical concepts, better preparing them for professional challenges.

Industry Supported laboratories

SI.NO	INDUSTRY NAME	COLLABORATION DETAILS	AREAS IN WHICH STUDENTS' ARE ENHANCED LEARNING
1	CISCO NETWORKING	Centre of Excellence	Networking
2	NATIONAL CYBER SECURITY STANDARDS	Research Centre	CyberSecurity and Digital Forencics

The department has signed a MOU with the following organizations. These industry-supported laboratories, facilitated through MoUs, enable the department to leverage the expertise, resources, and practical knowledge of industry partners. Such collaborations can enhance the practical training and skill development of students, exposing them to industry-relevant techniques, tools, and methodologies. Additionally, certified courses offered through these partnerships can potentially provide students with valuable certifications or credentials recognized by the industry, improving their employability and career prospects.

SI. NO	Date	Name of Organisation	Type of MoU
1	04-8-2023	TANSAM	Training, Certified Courses
2	26-08-2022	New Technologies	Training, Certified Courses
3	06-04-2022	Futuro Focus	Training, Certified Courses
4	21-09-2021	Skill Technika	Training, Certified Courses

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

The department often collaborates with industry partners to ensure that academic programs and regular courses offered to students are aligned with industry needs and standards. This industry involvement can take several forms:

Value Added Courses details during Academic Year 2023-24

S.NO	PERIODS	COURSE NAME	ORGANIZATION	USERS
1	140 hours	Certificate course on Cloud	ICT Academy & Paypal India	IV Year
2	1 Month	Basics C++	IBM DigiLabs	III Year
3	6 Months	Google Data Analytics	Coursera	III Year
4	6 Months	Google UX Design	Coursera	III Year

workshops: Industry professionals are invited to deliver seminars, webinars, workshops, or participate in panel discussions as part of regular courses. This exposure allows students to learn directly from experienced professionals, gain insights into real-world challenges, and understand the practical applications of the course material.

S. NO	DATE	EVENT DESCRIPTION	YEAR	RESOURCE PERSON
1	11-08-2023	One Day Workshop On Block Chain Technology	III	Ms. Pavithra Ashokan & Ms. Shree Kalyaane (Alumini) Chennai.

2	30-01-2024 & 01-02-2024	Mobile Application Development	III	Mr. M. Gokul, Technical Lead, Pocket Technology, Chennai
3	03-02-2024	Software Testing	III	Mrs. S. Anusha, Lead Analysit, CGI, Chennai.
4	14-2-2024	Cloud Computing Using Docker	III	Mr. R. Nambi Venkatesh, Tech Mahindra, Chennai
5	04-03-2024 & 05-03-2024	Full Stack Web Development	II	Mr. A. Anbuselvan, CEO, Cyberdue Networks Pvt Ltd.

C) Impact analysis of Industry institute interaction and actions taken:

Collaboration with industry plays a crucial role in shaping engineering education by bridging the gap between academia and real-world applications. The Program Outcomes (POs) and Program-Specific Outcomes (PSOs) mapped to industry-focused criteria help students develop skills that make them industry-ready. Industry collaboration through electives, visits, internships, and workshops enhances students' practical knowledge, employability, and industry readiness. By aligning **POs and PSOs with industry expectations**, students develop a **balanced skill set**, preparing them for successful careers in engineering and technology.

Relevance of POs & PSOs in collaboration with industry

Sl.No	Criterion	Relevance to POs & PSOs
1	Electives	PO1, PO2, PO3, PO5, PO12, PSO1, PSO2
2	Industrial Visits	PO6, PO7, PO8, PO9, PO10, PSO1, PSO3
3	Industry Internships	PO4, PO5, PO9, PO10, PO11, PSO2, PSO3
4	Workshops	PO1, PO5, PO9, PO12, PSO2, PSO3

2.2.5 Initiative related to industry internship/summer training (15) Institute Marks : 15.00

A) Industrial training/tours for students

Exposure to the actual industrial experience of experts allows students to shift their approach to problem-solving from a purely academic or theoretical mind-set to a more practical and application/product-oriented perspective. These interactions with industry professionals enhance students technical capabilities and provide them with a broader understanding of the specific roles and responsibilities within their chosen fields. Additionally, the industry visits organized by the department complement the course/curriculum knowledge with hands-on, direct exposure to real-world work environments. Through these experiences, students can identify gaps in their knowledge and better prepare themselves to face industry job interviews by their final year. The combined learnings from these interactions equip students with the necessary skills, mindset, and exposure to tackle practical challenges effectively and present themselves as well-rounded candidates for industry roles.

Industrial Visit details during Academic Year 2023-24

S.NO	Date	Year	Industry
1	22-9-2023.	II Year	Center for Development of Advanced Computing(C-DAC) , Tidel Park,Chennai
2	26-09-2023.	III Year	Council Of Scientific & Industrial Research(CSIR), Taramani, Chennai
3	1.11.2023.	III & IV Year	Indian Space Research Organisation (ISRO), Mahendragiri
4	24-01-2024	III Year	Regional Metrological Centre, Nungambakkam, Chennai
5.	08.02.2024	Final Year	Indian Space Research Organisation (ISRO), Sathish Dhawan Space centre as a part of Educational Tour
6.	05.April. 2024.	Third Year	PhantomFX, Chennai as a part of the Industrial Visit
7.	31.01.2024	Final Year	IIT Research Park

B) Industrial / internship / summer training of more than two weeks and post training Assessment:

Industrial/internship/summer training programs that span more than two weeks typically involve a more comprehensive and immersive learning experience for students or trainees. These extended training programs often include a combination of theoretical knowledge, hands-on practical experience, and post-training assessments.

INTERNSHIP DETAILS (2023-2024)					
Sl. No	**Reg. No**	**Name of the Student**	**COMPANY NAME**	**DURATION**	**SPECIALIZATION**
1	210521205001	AARTHI N	NSIC	10.07.2023 to 15.07.2023	ANDROID APP DEVELOPMENT &IOT
2	210521205002	ABISHEK R	JAI BALAJI FABRICATION	13.07.2023 TO 18.07.2023	CLOUD BASED NETWORING
3	210521205003	ABISHEK S	RETECH	10.07.2023 to 24.07.2023	FULL STACK WEB DEVELOPMENT
4	210521205004	AGUSTHIAN D	RETECH	10.07.2023 to 24.07.2023	FULL STACK WEB DEVELOPMENT
5	210521205005	AISHWARYA J	G-MOULDING SOLUTION	06.07.2023 to 17.06.2023	AUTOMOBILE DEVELOPMENT
6	210521205006	AJAY JUDU S	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
7	210521205007	AKASH R	RETECH	10.07.2023 to 25.07.2023	FULL STACK WEB DEVELOPMENT
8	210521205008	ALAGU SIVA A	RETECH	03.07.2023 TO 18.07.2023	PYTHON DEVELOPMENT
9	210521205009	ANNIE RUSHMA	REDISOLVE	01.07.2023 to 31.07.2023	DATA ANAYLST
10	210521205010	AROCKIA PREM KUMAR A	RETECH	01.07.2023 to 15.07.2023	FULL STACK WEB DEVELOPMENT
11	210521205012	DEVADHARSHINI R	Digital EPCS & Seval Software	6 DAYS	FULL STACK WEB DEVELOPMENT

12	210521205013	DHARSHINI S	NSIC	1 WEEK	ANDROID APP DEVELOPMENT &IOT
13	210521205014	DHESAVAN R	NSIC	1 WEEK	ANDROID APP DEVELOPMENT &IOT
14	210521205015	DINESHKUMAR V	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
15	210521205016	FARVESH MUSHRAF S A	RETECH	10.07.2023 to 25.07.2023	FULL STACK WEB DEVELOPMENT
16	210521205017	GOKUL S	AICTE IDEA LAB	11.07.2023 to 26.07.2023	IOT
17	210521205018	GOPINATH G	RETECH	10.07.2023 to 25.07.2023	FULL STACK WEB DEVELOPMENT
18	210521205019	HARSHA VARTHINI J U	UST GLOBAL	10.07.2023 to 02.08.2023	DATA ANALYST
19	210521205020	HEMARAJ T	RETECH	01.07.2023 to 15.07.2023	FULL STACK WEB DEVELOPMENT
20	210521205021	IMMACULATE A	Fresh data labs	4 WEEKS	FULL STACK WEB DEVELOPMENT
21	210521205023	JAYASRI R	AICTE IDEA LAB	11.07.2023 to 26.07.2023	IOT
22	210521205024	JAYA VARSHINI K	NSIC TSC	06.07.2023 TO 12.07.2023	FRONTEND DEVELOPMENT
23	210521205025	JESICA MARY P	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
24	210521205026	KARTHIKEYAN K	AICTE IDEA LAB	11.07.2023 to 26.07.2023	IOT
25	210521205027	KATHIRVEL A	RETECH	10.07.2023 to 24.07.2023	FULL STACK WEB DEVELOPMENT
26	210521205028	KEERTHANA L	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
27	210521205029	KEERTHICK RAJA P	RETECH	10.07.2023 to 25.07.2023	FULL STACK WEB DEVELOPMENT
28	210521205030	KENITH RAJ ANTONY L	ALFARE TECHNOLOGIES	25.06.2023 to 10.07.2023	FRONTEND DEVELOPMENT
29	210521205031	KUMARAGURU G	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
30	210521205034	MOHANRAJ R	RETECH	03.07.2023 TO 18.07.2023	FULLSTACK WEB DEVELOPMENT
31	210521205035	MURUGADASS A	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
32	210521205036	NARENDRAN K	RETECH	26.07.2023 to 09.07.2023	FULL STACK WEB DEVELOPMENT
33	210521205038	POOJA S	NSIC	10.07.2023 TO 16.07.2023	ANDROID APP DEVELOPMENT &IOT
34	210521205039	PRAKASH K	RETECH	26.06.2023 to 09.07.2023	FRONTEND DEVELOPMENT
35	210521205040	RAJESWARI V	G-MOULDING SOLUTION	6.07.2023 to 17.07.2023	AUTOMOBILE DEVELOPMENT
36	210521205042	RAMYA P	Fantasy Solution	12.07.2023 to 22.07.2023	FRONTEND DEVELOPMENT
37	210521205044	SABARISH S	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
38	210521205045	SAKTHIVEL P	WINGS SCIENTIFIC SOLUTION PVT LTD	30 DAYS	IOT
39	210521205046	SANJAY M	RETECH	03.07.2023 to 18.07.2023	CORE JAVA
40	210521205047	SATHISH KUMAR P	RETECH	12.07.2023 to 27.07.2023	CORE JAVA
41	210521205048	SELVIN PAULRAJ K	Servimos Technology Pvt LTD	1 MONTH	FULL STACK WEB DEVELOPMENT

42	210521205049	SIVASUKI S	UP2DATEZ BUSINESS	20.06.2023 to 15.07.2023	FRONTEND DEVELOPMENT
43	210521205050	SNEHA S	NSIC	10.07.2023 to 15.07.2023	ANDROID APP DEVELOPMENT &IOT
44	210521205051	SRIRAM K	RETECH	03.07.2023 to 18.07.2023	IOT
45	210521205052	SUNDAR P	EMPOWER GUIDANCE CENTRE	14.07.2023 to 31.07.2023	FRONT END DEVELOPMENT
46	210521205053	SURRYA GANESH V L	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
47	210521205054	VENKATKUMAR K R	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
48	210521205055	VIDHUN K	SEVAL SOFTWARE	05.07.2023 to 26.07.2023	FRONTEND DEVELOPMENT
49	210521205056	VIGNESH WARAN K	RETECH	03.07.2023 TO 18.07.2023	CORE JAVA
50	210521205058	VIMALRAJ J	RETECH	10.07.2023 to 24.07.2023	IOT
51	210521205059	YOKESHWARAN S	RETECH	26.06.2023 to 09.07.2023	CORE JAVA
52	2105212050501	ATHIYAMAN	RETECH	12.07.2023 to 27.07.2023	CORE JAVA

C) Impact analysis of industrial training

Engaging with industry professionals exposes students to real-world problem-solving, helping them transition from a theoretical understanding to a practical, application-focused mindset.

These valuable interactions provide:

- Students gain insights from experts, improving their technical competencies and learning about the industry-specific roles and responsibilities within their chosen fields.
- Industry visits, organized by the department, offer direct exposure to work environments,complementing academic knowledge with practical, real-world experiences.
- Through these experiences, students can pinpoint areas for improvement and develop a clearer understanding of their strengths and weaknesses.
- The exposure to industry practices equips students with the skills and knowledge needed to perform well in job interviews and industry roles by their final year.
- The combination of theoretical learning and practical industry exposure fosters the skills,mindset, and confidence required to face practical challenges and become successful candidates in the job market.

S.no	Date of Visit	Industry Name	Target Students	Mapping of POs and PSOs
1	4-8-2023	Centre for Development of Advanced Computing(C-DAC) ,Tidel Park, Chennai	IV year	PO1, PO4, PO5, PO8, PO10, PO12 PSO1, PSO2, PSO3
2	22-9-2023	Centre for Development of Advanced Computing(C-DAC) ,Tidel Park, Chennai	II year	PO1, PO4, PO5, PO8, PO10, PO12 PSO1, PSO2, PSO3
3	26-09-2023	Council Of Scientific & Industrial Research(CSIR), Taramani	III year	PO1, PO4, PO5, PO8, PO10, PO12 PSO1, PSO2, PSO3
4	1.11.2023	Indian Space Research Organisation (ISRO), Mahendragiri.	III,IV year	PO1, PO4, PO 5, PO8, PO 10, PO 12 PSO1, PSO2, PSO3
5	23-01-2024	Regional Metrological Centre, Nungampakkam, Chennai	III Year	PO1, PO4, PO5,PO7,PO8, PO10, PO11,PO12 PSO1, PSO2, PSO3
6	08.02.2024	Indian Space Research Organisation (ISRO), Sathish Dhawan Space centre	IV year	PO1, PO4, PO5, PO8, PO10, PO12 PSO1, PSO2, PSO3

D) Student feedback on initiative

- Feedback from students was gathered regarding the initiatives taken by the department in organizing industry interactions, training programs, and industrial visits.
- Remedial actions will be implemented to ensure the effectiveness of the aforementioned activities, ensuring continuous improvement in their quality.
- The suggestions are considered in order to improve this process so that students get benefitted.
- The students suggestions regarding preferred types of industrial visits and lecture topics/courses aimed at enhancing their academic and co-curricular skills and knowledge will be considered. Appropriate corrective actions will be implemented to facilitate further improvements.
- Memorandum of understanding between the institute and industries to facilitate training to students and faculty.
- Develop knowledge and skills to adapt industrial Environment.
- Facilitating research and development, consultancyand testing services to solve industrial problems.
- Organizing symposia and workshops with joint participation of faculty and industrial experts. Curriculum development.
- Scholarships instituted by industries for students.
- Campus drive and employment.

3 COURSE OUTCOMES AND PROGRAM OUTCOMES (120) Total Marks 120.00

Define the Program specific outcomes

3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20) Total Marks 20.00

:

PSO1	Analytical Thinking: Identify, formulate and solve engineering problems by applying mathematical foundations and algorithmic principles in IT environment to meet challenges.
PSO2	Principles of Information Technology: Analyze, design and develop Software, Multimedia, Web Applications and Networking Technologies for an efficient design of Information based systems with high professional skills.
PSO3	Engineering Ethics: Understand best practices, ethical standards and replicate the same for the industry, research and social needs.

3.1.1 Course Outcomes(COs)(SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (5) Institute Marks : 5.00

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

Course Name :	C2 04	Course Year :	2021-2022

Course Name	Statements
C2 04.1	Develop Java programs using OOP principles
C2 04.2	Develop Java programs with the concepts inheritance and interfaces
C2 04.3	Build Java applications using exceptions and I/O streams
C2 04.4	Develop Java applications with threads and generics classes
C2 04.5	Develop interactive Java programs using swings

Course Name :	C2 14	Course Year :	2021-2022

Course Name	Statements
C2 14.1	Explain the overall view of the computer system and operating system
C2 14.2	Identify various scheduling algorithm and deadlock prevention and avoidance algorithm
C2 14.3	Compare and contrast various memory management schemes and file system functionalities
C2 14.4	Discuss the performance of the various page replacement algorithms and interpret the file system implementation, sharing and protection mechanisms.
C2 14.5	Demonstrate administrative tasks on Linux servers and to be familiar with the basics of Mobile OS.

Course Name :	C3 02	Course Year :	2022-2023

Course Name	Statements
C3 02.1	Explain the basic layers and its functions in computer networks.
C3 02.2	Understand the basics of how data flows from one node to another.
C3 02.3	Understand the basics of how data flows from one node to another.
C3 02.4	Describe protocols for various functions in the network.
C3 02.5	Analyze the working of various application layer protocols.

Course Name :	C3 11	Course Year :	2022-2023

Course Name	Statements
C3 11.1	Express software design with UML diagrams.
C3 11.2	Design software applications using OO concepts.
C3 11.3	Identify various scenarios based on software requirements.
C3 11.4	Transform UML based software design into pattern based design using design patterns
C3 11.5	Understand the various testing methodologies for OO software.

Course Name :	C4 03	Course Year :	2023-2024

Course Name	Statements
C4 03.1	Articulate the main concepts, key technologies, strengths and limitations of cloud computing.
C4 03.2	Explain the key and enabling technologies that help in the development of cloud.
C4 03.3	Make use of NIST cloud computing architecture to solve architecture design challenges
C4 03.4	Explain the core issues of cloud computing such as resource management and security.
C4 03.5	Install and use current cloud technologies.

Course Name :	C4 09	Course Year :	2023-2024

Course Name	Statements
C4 09.1	Describe the human values with regard to the individual life style for the society.
C4 09.2	Explain the role of ethics to the engineering field.

C4 09.3	Describe how engineering is applied in association with ethics based on engineering experimentation.
C4 09.4	Explain the engineering ethics based safety, responsibilities and rights.
C4 09.5	Discuss the global issues of professional ethics in engineering.

3.1.2 CO-POmatrices of courses selected in 3.1.1(Six matrices to be mentioned; one per semester from 3rd to 8th semester) (5) Institute Marks : 5.00

1 . course name : C204

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	2	3	3	-	-	-	-	-	-	-	-	1
C204.2	3	2	2	-	-	-	-	-	-	-	-	1
C204.3	3	3	3	-	-	-	-	-	-	-	-	-
C204.4	2	2	3	-	-	-	-	-	-	-	-	-
C204.5	3	3	2	-	-	-	-	1	1	1	-	1
Average	**3.00**	**3.00**	**3.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.00**	**1.00**	**1.00**	**0.00**	**1.00**

2 . course name : C214

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	2	3	2	-	-	-	-	-	-	-	-	-
C214.2	3	2	3	-	-	-	-	-	-	-	-	-
C214.3	2	2	2	-	-	-	-	-	-	-	-	-
C214.4	2	3	3	-	-	-	-	-	-	-	-	-
C214.5	3	2	2	-	-	-	-	-	-	-	-	-
Average	**3.00**	**3.00**	**3.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3 . course name : C302

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302.1	2	3	2	-	-	-	-	-	-	-	-	-
C302.2	3	2	2	-	-	-	-	-	-	-	-	-
C302.3	2	1	3	-	-	-	-	-	-	-	-	-
C302.4	3	2	2	-	-	-	-	-	-	-	-	-
C302.5	3	3	2	-	-	-	-	-	-	-	-	-
Average	**3.00**	**3.00**	**3.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4 . course name : C311

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	2	2	2	-	2	2	1	-	-	-	-	-
C311.2	3	2	3	-	1	1	2	-	-	-	-	-
C311.3	2	2	2	-	2	2	1	-	-	-	-	-
C311.4	2	3	3	-	1	1	2	-	-	-	-	-
C311.5	3	2	2	-	2	1	1	-	-	-	-	-
Average	**3.00**	**3.00**	**3.00**	**0.00**	**2.00**	**2.00**	**2.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

5 . course name : C403

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	3	3	3	-	-	-	-	-	-	-	-	-
C403.2	2	2	3	-	-	2	-	-	-	-	-	-
C403.3	2	3	3	-	-	-	-	-	-	-	-	-
C403.4	3	2	2	-	-	-	-	-	-	-	-	-
C403.5	3	3	3	-	2	2	-	-	-	-	-	2
Average	**3.00**	**3.00**	**3.00**	**0.00**	**2.00**	**2.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.00**

6 . course name : C409

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C409.1	-	-	-	-	-	1	-	3	2	-	1	-
C409.2	-	-	-	-	-	-	2	3	2	1	1	-
C409.3	-	-	-	-	-	1	2	3	-	-	1	-
C409.4	-	-	-	-	-	1	1	3	2	1	1	-
C409.5	-	-	-	-	-	2	2	3	1	1	1	-
Average	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.00**	**2.00**	**3.00**	**2.00**	**1.00**	**1.00**	**0.00**

1 . Course Name : C204

Course	PSO1	PSO2	PSO3
C204.1	1	1	3
C204.2	1	2	2
C204.3	-	1	3
C204.4	1	2	2
C204.5	-	2	3
Average	**1.00**	**2.00**	**3.00**

2 . Course Name : C214

Course	PSO1	PSO2	PSO3
C214.1	1	3	-
C214.2	-	2	-
C214.3	-	3	-
C214.4	1	2	-
C214.5	1	2	-
Average	**1.00**	**3.00**	**0.00**

3 . Course Name : C302

Course	PSO1	PSO2	PSO3
C302.1	-	2	1
C302.2	-	1	1
C302.3	-	2	1
C302.4	-	1	2
C302.5	-	1	2
Average	**0.00**	**2.00**	**2.00**

4 . Course Name : C311

Course	PSO1	PSO2	PSO3
C311.1	-	1	3
C311.2	-	1	3
C311.3	-	-	2
C311.4	-	1	3
C311.5	-	1	2
Average	**0.00**	**1.00**	**3.00**

5 . Course Name : C403

Course	PSO1	PSO2	PSO3
C403.1	-	1	1
C403.2	-	1	2
C403.3	-	1	2
C403.4	-	1	1
C403.5	-	1	2
Average	**0.00**	**1.00**	**2.00**

6 . Course Name : C409

Course	PSO1	PSO2	PSO3

C409.1	-	-	3
C409.2	-	-	3
C409.3	-	-	3
C409.4	-	-	3
C409.5	-	-	3
Average	**0.00**	**0.00**	**3.00**

3.1.3 - A Program level Course-PO matrix of all courses INCLUDING first year courses (10) Institute Marks : 10.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	0	0	0	0	0	0	0	2	2	3	0	1
C102	3	3	3	2	0	0	0	0	2	0	0	0
C103	3	2	2	0	0	0	0	0	0	0	0	0
C104	3	2	2	0	0	0	0	0	0	0	0	0
C105	3	3	3	0	0	0	0	0	0	0	0	0
C106	3	3	3	0	2	0	0	1	2	2	0	2
C107	3	3	3	0	2	0	0	1	2	2	0	2
C108	3	3	3	0	0	0	0	1	2	2	0	0
C109	0	0	0	0	0	0	0	2	2	3	0	1
C110	3	3	3	2	0	0	0	0	2	0	0	0
C111	3	2	2	0	0	0	0	0	0	0	0	0
C112	3	3	3	0	0	0	0	0	0	0	0	0
C113	3	3	3	0	3	0	0	0	0	2	1	2
C114	3	3	3	0	0	0	0	2	2	2	0	2
C115	3	3	3	1	1	2	2	2	2	2	0	2
C116	3	3	3	0	0	0	0	2	2	2	0	2
C117	3	3	3	0	2	0	0	0	0	2	2	2
C201	3	3	3	2	0	0	0	0	2	0	0	0
C202	3	3	3	0	0	0	0	0	0	0	0	0
C203	3	3	3	0	0	0	0	0	0	0	0	0
C204	3	3	3	0	0	0	0	0	0	0	0	0
C205	3	3	3	0	0	0	0	0	0	0	0	0
C206	3	3	3	0	0	0	0	1	2	2	0	2
C207	3	3	3	0	1	1	1	1	2	2	0	2
C208	3	3	3	0	0	0	0	1	2	2	0	2
C209	0	0	0	0	0	0	0	1	3	3	0	2
C210	3	3	3	0	0	0	0	0	0	0	0	0
C211	3	3	3	0	0	0	0	0	0	0	0	0
C212	3	3	3	0	0	0	0	0	0	0	0	0
C213	3	3	3	2	0	0	0	0	3	3	0	3
C214	3	3	3	0	0	0	0	0	0	0	0	0
C215	3	2	2	0	0	3	3	2	0	0	0	0
C216	3	3	3	0	0	0	0	1	2	2	0	2
C217	3	3	3	0	0	0	0	1	2	2	0	2
C218	0	0	0	0	0	0	0	1	3	3	0	2
C301	3	3	3	2	0	0	0	0	2	0	0	0
C302	3	3	3	0	0	0	0	0	0	0	0	0
C303	3	3	3	0	0	0	0	0	0	0	0	0

C304	3	3	3	2	0	0	0	0	0	0	0	0
C305	3	3	3	0	2	2	2	0	0	0	0	0
C306	3	3	3	0	0	0	0	0	0	0	0	0
C307	3	3	3	0	0	0	0	1	2	2	0	2
C308	3	3	3	0	0	0	0	1	2	2	0	2
C309	3	1	1	0	3	0	0	0	0	0	0	0
C310	3	3	3	3	0	3	0	0	0	0	0	0
C311	3	3	3	0	2	2	2	0	0	0	0	0
C312	3	3	3	0	0	0	0	0	0	0	0	0
C313	3	3	3	3	0	2	0	0	0	0	0	0
C314	3	0	3	0	2	0	0	0	0	0	0	0
C315	3	3	3	0	1	0	0	0	0	0	0	0
C316	3	3	3	0	2	2	2	2	2	2	0	2
C317	3	3	3	0	2	2	2	2	2	2	2	2
C318	3	3	3	3	3	3	3	3	3	3	3	3
C319	0	0	0	0	0	0	0	1	2	3	0	2
C401	3	2	2	0	0	0	0	0	0	0	3	0
C402	3	3	3	0	0	0	0	0	0	0	0	0
C403	3	3	3	0	0	0	0	0	0	0	0	0
C404	3	2	2	0	0	0	0	0	0	0	0	0
C405	2	2	2	0	0	0	0	0	3	3	3	0
C406	3	3	3	0	2	0	0	1	2	2	0	3
C407	3	3	3	0	2	0	0	1	2	2	0	2
C408	3	3	3	0	2	0	0	1	2	2	0	2
C409	0	0	0	0	0	1	2	3	2	1	1	0
C410	3	1	1	0	0	0	0	0	0	0	3	3
C411	3	3	3	3	3	3	3	3	3	3	3	3

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

Course	PSO1	PSO2	PSO3
C101	0	0	0
C102	3	1	0
C103	0	0	0
C104	0	0	0
C105	0	0	0
C106	0	0	0
C107	1	2	3
C108	0	0	0
C109	0	0	0
C110	3	1	0
C111	0	0	0
C112	1	0	0
C113	0	0	0
C114	1	2	3
C115	0	0	0
C116	1	2	3
C117	1	2	3
C201	3	1	0

C202	1	2	1
C203	3	2	2
C204	1	2	3
C205	1	0	0
C206	2	2	3
C207	1	2	3
C208	1	2	2
C209	0	0	0
C210	3	1	0
C211	1	3	0
C212	0	1	2
C213	2	2	2
C214	1	3	0
C215	0	1	3
C216	0	2	3
C217	1	3	1
C218	0	0	0
C301	3	1	0
C302	0	2	2
C303	0	3	0
C304	2	2	0
C305	0	1	3
C306	0	0	0
C307	0	3	1
C308	0	2	2
C309	0	2	2
C310	0	1	3
C311	0	1	2
C312	0	2	2
C313	1	3	0
C314	0	2	0
C315	0	1	3
C316	0	1	3
C317	0	2	2
C318	3	3	3
C319	0	0	0
C401	0	0	1
C402	0	1	2
C403	0	1	2
C404	0	2	1
C405	0	1	2
C406	0	1	2
C407	0	1	2
C408	0	1	2
C409	0	0	0
C410	0	1	1
C411	3	3	3

3.2 Attainment of Course Outcomes (50) Total Marks 50.00

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10) Institute Marks : 10.00

A. List of assessment processes:

Designing the COs for the individual subject is the foremost process. These COs are mapped with POs and PSOs. At the end of the course, attainment levels are calculated for the COs, POs and PSOs and need to be evaluated whether it is attained or not.

Assessment Tools:

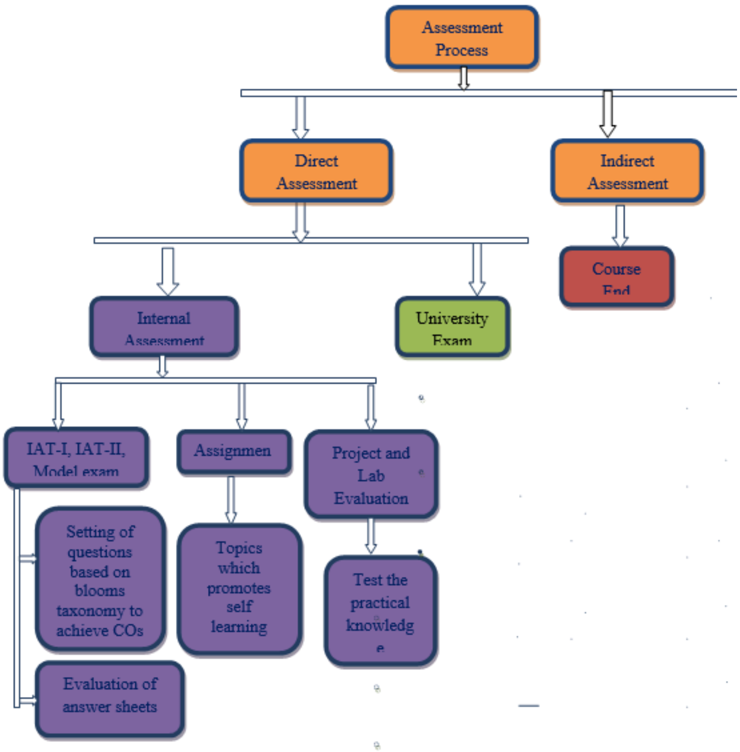


Figure 3.1 Assessment processes

Assessment Tools are categorized into direct and indirect methods. The CO, PO and PSO attainment is calculated based on the assessment process through assessment tools . The direct assessment tools used to calculate the attainment of Course Outcomes are Internal Assessment Tests, Assignments and University Examination. 20% of weightage is given to Internal Assessment Tests and Assignments, 80% of weightage is given to University Examination. The indirect assessment tool used to calculate the attainment of Course end-survey. The Course End Survey consists of Questionnaires prepared with four scale range by focusing to evaluate the COs attainment of all courses in a semester.

Each CO is mapped with POs and the direct attainments of POs are calculated. The indirect assessment tools used to calculate the attainment of Program Outcomes are the Employer, Parent, Professional body activities and Graduate Exit Survey. For both PO and CO assessment, the weightage of direct assessment is 80% and indirect assessment is 20%.

Laboratory courses are assessed through the marks obtained by the students in the model examination, record book and university examination. Project courses are assessed through the marks obtained by the students in project reviews and project viva-voce examination. The project work is done as either single or a team of students not more than 4. A panel comprising of project coordinator, internal guide and a subject expert conducts the project review. Totally three reviews are conducted in regular intervals. At the end of the semester university conducts viva-voce examination. The attainment levels for recording the attainment of Course Outcomes are defined based on the average performance of students in each subject.

B. The quality /relevance of assessment processes & tools used:

All the Internal Assessment marks will be uploaded in Anna University web portal and the internal marks will be awarded purely based on their marks in the internal assessment and the assignments. Therefore students are expected to take the tests seriously and perform well in the tests & examination. Parents are requested to have a close watch on their ward's performance.

Table 3: Assessment process and Tools used

Assessment Tools	Description	Assessment Frequency
Internal Test	IAT – I (Unit – I and Unit – II) IAT – II (Unit – III and Unit – IV) Model Exam -All units	Two Internal Assessment Test and One Model exam
Assignment	Challenging questions are included in the assignment that drives the students to search various resources for appropriate solution.	Five per Semester
End Semester Exam	Question paper given by the University	End of the Semester
Internal Evaluation for Lab	Observation	Weekly
	Record	Weekly
	Model Lab Exam-Cycle 1&2	Once per Semester

Course End Survey	At the end of every semester course end survey is taken from the students according to the attainment of CO	End of the Semester

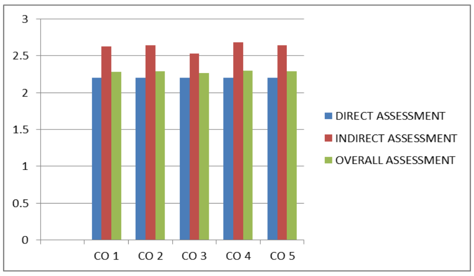
Table 3.2 b - Assessment process - Review

Assessment Tool	Assessment Frequency	Assessment Person	Assessment Review
Internal Assessment Test	Every Month	Faculty	IQAC
Assignment	2 Per Semester	Faculty	IQAC
Course End Survey	End of the Semester	Faculty and Student	IQAC
Projects	As per need	Faculty	IQAC
University Exam	End of the Semester	Faculty	IQAC

Attainment level:
Attainment level 1: 60% of students scoring more than 50 marks.
Attainment level 2: 70% of students scoring more than 50 marks.
Attainment level 3: 80% of students scoring more than 50 marks.

Table 3.2 c - Sample CO attainment

Attainment level of COs					
Assessment Type	CO 1	CO 2	CO 3	CO 4	CO 5
INTERNAL ASSESSMENT	3	3	3	3	3
UNIVERSITY EXAM	2	2	2	2	2
DIRECT ASSESSMENT	2.2	2.2	2.2	2.2	2.2
INDIRECT ASSESSMENT	2.6	2.6	2.5	2.7	2.6
OVERALL ASSESSMENT	2.3	2.3	2.3	2.3	2.3



Measuring CO attainment: Internal Assessment

The percentage distribution of how much each factor contributes to the CO attainment calculation is given using weighing factor and the percentage of distribution of each CO in every assessment the CO attainment process is given in the following sections.

<u>FORMULAS USED FOR CALCULATION</u>

CO1= [(CO1(IAT1) % +CO1(Model)% + CO1(Assignment)%) /78] *100

CO2= [(CO2(IAT1) % + CO2(Model)% + CO2(Assignment)% /83] *100

CO3= [(CO3(IAT2) % +CO3(Model)% + CO3(Assignment)%) /71] *100

CO4= [(CO4(IAT2) % +CO4(Model)% + CO4(Assignment)%) /91] *100

CO5= [(CO5(Model)% + CO5(Assignment) /27] *100

<u>FORMULAS USED FOR CALCULATION IN LAB</u>

CO1= ([CO1 (Cycle 1) %*.25+CO1 (Model)%* 0.5]/75) *100

CO2= ([CO2 (Cycle 1) %*.25+CO2 (Model)%* 0.5]/75) *100

CO3= ([CO3 (Cycle 1) %*.25+ CO3 (Cycle 2) %*.25+CO3 (Model)%* 0.5]/80) *100

CO4= ([CO4 (Cycle 2) %*.25+CO4 (Model)%* 0.5]/75) *100

CO5= ([CO5 (Cycle 2) %*.25+CO5 (Model)%* 0.5]/75) *100

Assessment of CO 1: (For S.No. 1 student)

CO1 = [(CO1(IAT1) + CO1(Model) + CO1(Assignment)) / 78] *100 CO1 = [(40 + 23 + 9) / 78] * 100

= 92%

Similarly, the CO 1 attainment for all the students in a class for a particular course has to be calculated.

For calculating the attainment of other COs same procedure has to be followed. The equations for calculating attainment of other COs with their value are given below.

Assessment of CO 2:

CO2 = [(CO2(IAT2) + CO2(Model) + CO2(Assignment)) / 83] *100 CO2 = [(39 + 15 + 7) / 83*100

= 73%

Assessment of CO 3:

CO3 = [(CO3(IAT2) + CO3(Model) + CO3(Assignment)) / 71] *100 CO3 = [(30 + 15 + 9) / 71*100

= 76%

Assessment of CO 4:

CO4 = [(CO3(IAT2) + CO4(Model) + CO4(Assignment)) / 91] *100 CO4 = [(34 + 21 + 8) / 91*100

= 69%

Assessment of CO 5:

CO5 = [(CO5(Model) + CO5(Assignment)) / 27] *100 CO5 = [(12 + 9) / 27*100

= 78%

3.2.2 Record the attainment of Course Outcome of all courses with respect to set attainment levels (40) Institute Marks : 40.00

Measuring CO attainment through Internal assessments:

Attainment Level V/s Target

Attainment Level 1: 60% students scoring more than 60% marks out of maximum marks.

Attainment Level 2: 70% students scoring more than 70% marks out of maximum marks.

Attainment Level 3: 80% students scoring more than 80% marks out of maximum marks.

Measuring CO attainment through Semester End Examination

Attainment Level V/s Target

Attainment Level 1: 60% students scoring more than 60% marks out of maximum marks.

Attainment Level 2: 70% students scoring more than 70% marks out of maximum marks.

Attainment Level 3: 80% students scoring more than 80% marks out of maximum marks.

CO Attainment has been calculated by assuming 80 % weightage to University Examination and 20 % weightage to Internal Assessment.

Final CO Attainment has been calculated by assuming 80% weightage to Direct Attainment and 20% weightage to Indirect Attainment (Using Course End Surveys).

Course Outcome attainment of 2021 Batch

Course Code	**SEM**	**Subject**	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**
			Attainment Level					**Attained Y/N**				
MA8551	v	Algebra and Number Theory	**3**	**2.84**	**2.84**	**2.68**	**2.84**	Y	Y	Y	Y	Y
CS8591		Computer Networks	**3**	**3**	**2.84**	**2.68**	**2.84**	Y	Y	Y	Y	Y
EC8691		Microprocessors and Microcontrollers	**3**	**2.84**	**2.84**	**2.68**	**2.84**	Y	Y	Y	Y	Y
CS8501		Theory of Computation	**3**	**2.84**	**2.84**	**2.84**	**2.84**	Y	Y	Y	Y	Y
CS8592		Object Oriented Analysis and Design	**3**	**2.52**	**2.84**	**2.52**	**2.84**	Y	Y	Y	Y	Y
OTL553		Telecommunication Network Management	**3**	**2.84**	**2.84**	**2.68**	**2.84**	Y	Y	Y	Y	Y
EC8681		Microprocessors and Microcontrollers Laboratory	**3**	**3**	**3**	**3**	**3**	Y	Y	Y	Y	Y
CS8582		Object Oriented Analysis and Design Laboratory	**3**	**3**	**3**	**3**	**3**	Y	Y	Y	Y	Y
CS8581		Networks Laboratory	**3**	**3**	**3**	**3**	**3**	Y	Y	Y	Y	Y

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

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

Institute M

A) **List of assessment tools & processes**

Assessment Tools	**Description**	**Assessment Frequency**	**Documentation of Maintenance**
Direct Assessment Tools			
Course Evaluation			
Internal Test	IAT1,IAT2-100 marks Model-100 marks	3 Internal Assessment Test	Test papers are documented and marks are recorded. Internal test Question Paper and answer keys are maintained.
Assignment	2 Assignment	2 per semester	Sample assignment is documented
Anna University Exam	Anna University Question Paper	1 per semester	Result copy is documented
Lab Evaluation			
Internal Evaluation for Lab	Experiments. (Record/ Model Lab Exam)	1 – Model Exam	Record note for each student is maintained & sample record is documented.
Anna Univeristy Semester Lab	Anna University examination	1 per semester	Result copy is documented
Indirect Assessment Tools			
Graduate Exit survey	Immediately after the completion of course of study, the attainment of PO is analyzed by getting feedback from the students	Once in a year	Documented
Parent Survey	For the attainment of PO the survey is taken from the parents during parent meet.	Once in a year	Documented
Employers survey	Employer's survey is collected from the employers about the level to which Programme Outcomes are attained based on the performance and progress of graduated students from the department.	Once in a year	Documented
Professional Body Activities survey	The survey is collected from the professional body activities survey who are involved in the growth of the institutions and who are visiting the institution frequently and who can be able to assess the students in line with POs.	Once in a year	Documented

B) **The Quality /relevance of Assessment tools/ Processes Used**

PO & PSO attainment process has been done by taking, direct and indirect assessment tools. In direct attainment marks obtained in IAT1, IAT2, Model, Assignment an examination are taken into account. For indirect attainment surveys were taken from all the stakeholders. The process for attainment of each program outcome ba assessment tools used is described as in figure below

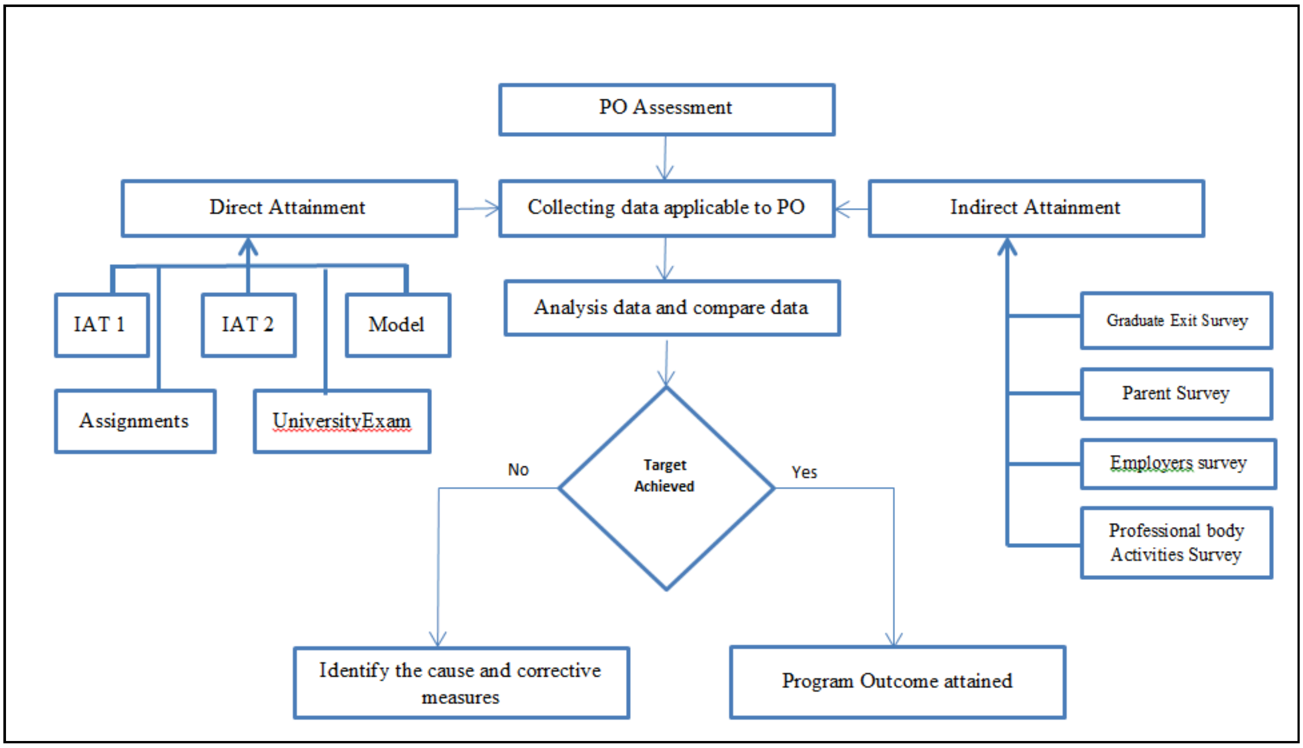
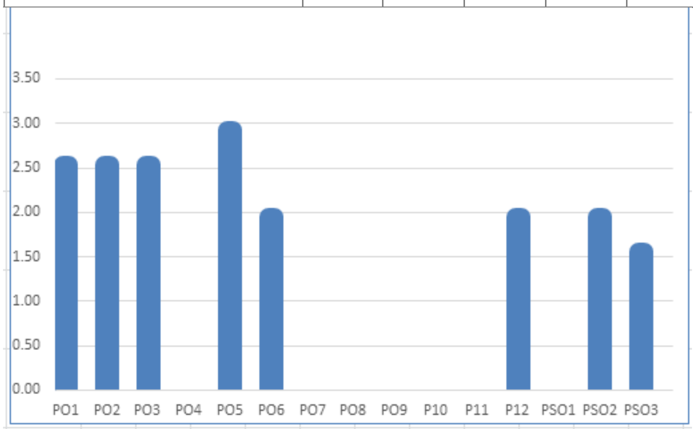


Figure 3.2: PO Attainment Process and Tools

Table 3.3 - Sample PO Attainment

Subject Code / Name : CS8791 Cloud computing

	PO1		PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9		P10		P11		P12		PSO1		PSO2	
Course Outcome	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	ACL	CL	AC
C405.1	3	2.92	3	2.92	2	1.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.9
C405.2	2	1.95	2	1.95	3	2.93	-	-	-	-	2	1.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.9
C405.3	2	1.94	3	2.91	3	2.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.9
C405.4	3	2.94	2	1.96	2	1.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1.9
C405.5	3	2.93	3	2.93	3	2.93	-	-	3	2.93	2	1.95	-	-	-	-	-	-	-	-	-	-	2	1.95	-	-	2	1.9
Total	13	13	13	13	13	13	-	-	3	3	4	4	-	-	-	-	-	-	-	-	-	-	2	2	-	-	10	10
Achieved Correlation value	97		97		97		-		98		98		-		-		-		-		-		98		-		97	
Mapping Level	3		3		3		-		3		2		-		-		-		-		-		2		-		2	
Attainment Level	2.53		2.53		2.53		-		2.93		1.95		-		-		-		-		-		1.95		-		1.95	



3.3.2 Provide results of evaluation of PO&PSO (40) Institute Marks : 40.00

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	0	0	0	0	0	0	0	3.00	3.00	3.00	0	3.00
C102	3.00	3.00	3.00	3.00	0	0	0	0	3.00	0	0	0
C103	3.00	3.00	3.00	0	0	0	0	0	0	0	0	0
C104	3.00	3.00	3.00	0	0	0	0	0	0	0	0	0
C105	3.00	3.00	3.00	0	0	0	0	0	0	0	0	0
C106	3.00	3.00	3.00	0	3.00	0	0	3.00	3.00	3.00	0	3.00
C107	3.00	3.00	3.00	0	3.00	0	0	3.00	3.00	3.00	0	3.00
C108	3.00	3.00	3.00	0	0	0	0	3.00	3.00	3.00	0	0
C109	0	0	0	0	0	0	0	3.00	3.00	3.00	0	3.00
C110	3.00	3.00	3.00	3.00	3.00	0	0	0	3.00	0	0	0
C111	3.00	3.00	3.00	0	0	0	0	0	0	0	0	0
C112	3.00	3.00	3.00	0	0	0	0	0	0	0	0	0
C113	3.00	3.00	3.00	0	2.88	0	0	0	0	2.88	2.63	2.63
C114	3.00	3.00	3.00	0	0	0	0	3.00	3.00	3.00	0	2.00
C115	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	0	3.00
C116	3.00	3.00	3.00	0	0	0	0	3.00	3.00	3.00	0	3.00
C117	3.00	3.00	3.00	0	3.00	0	0	0	0	3.00	3.00	3.00
C201	2.93	2.92	2.92	2.93	0	0	0	0	2.93	0	0	0
C202	2.92	2.92	2.92	0	0	0	0	0	0	0	0	0
C203	2.93	2.92	2.92	0	0	0	0	0	0	0	0	0
C204	2.92	2.92	2.92	0	0	0	0	0	0	0	0	0
C205	2.93	2.92	2.92	0	0	0	0	0	0	0	0	0
C206	2.95	2.96	2.95	0	0	0	0	2.94	2.97	2.94	0	2.94
C207	2.94	2.93	2.85	0	2.91	3.00	3.00	3.00	2.94	2.96	0	2.97
C208	2.95	2.95	2.95	0	0	0	0	2.91	2.94	2.97	0	2.97
C209	0	0	0	0	0	0	0	2.91	2.95	2.95	0	2.96
C210	1.66	1.00	1.01	1.00	0	0	0	0	1.00	0	0	0
C211	1.64	1.65	1.64	0	0	0	0	0	0	0	0	0
C212	1.01	1.01	1.00	0	0	0	0	0	0	0	0	0
C213	2.28	2.29	2.28	2.28	0	0	0	0	2.28	2.28	0	2.28
C214	1.01	1.01	1.94	0	0	0	0	0	0	0	0	0
C215	2.63	2.23	2.24	0	0	2.21	2.28	2.36	0	0	0	0
C216	2.94	2.96	2.94	0	0	0	0	2.94	2.97	2.94	0	2.97
C217	2.94	2.94	2.94	0	0	0	0	2.91	2.97	2.94	0	2.94
C218	0	0	0	0	0	0	0	2.94	2.95	2.95	0	2.94
C301	1.00	1.00	2.97	1.00	0	0	0	0	1.00	0	0	0
C302	1.01	1.01	1.00	0	0	0	0	0	0	0	0	0
C303	1.64	1.65	1.65	0	0	0	0	0	0	0	0	0
C304	2.65	2.94	2.96	2.65	0	0	0	0	0	0	0	0
C305	1.00	1.01	1.01	0	1.01	1.01	2.97	0	0	0	0	0
C306	2.29	2.28	2.28	0	0	0	0	0	0	0	0	0
C307	2.94	2.95	2.93	0	0	0	0	2.91	1.50	2.89	0	2.95
C308	2.96	2.96	2.95	0	2.97	2.94	2.97	2.97	2.94	2.94	2.97	2.97
C309	2.95	1.01	1.01	0	2.95	0	0	0	0	0	0	0

C310	2.28	0.63	0.63	0	0	0	0	0.84	0.95	0.86	0	0.96
C311	2.28	2.28	2.28	2.28	0	2.28	2.28	2.28	0	0	0	2.28
C312	2.65	2.65	2.65	0	0	0	0	0	0	0	0	0
C313	2.65	2.62	2.68	0	0	0	0	2.94	2.25	2.28	0	0
C314	2.65	1.66	2.65	0	0	0	0	0	0	0	0	0
C315	2.65	2.65	2.83	0	0	0	0	0	0	0	0	0
C316	3.00	3.00	3.00	PO4	3.00	2.65	2.83	2.82	2.95	2.93	PO11	2.65
C317	3.00	3.00	3.00	PO4	3.00	2.85	2.89	2.85	2.86	2.65	2.87	2.85
C318	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
C319	0	0	0	0	0	0	0	1.26	1.69	2.00	0	2.16
C401	2.99	2.28	2.28	0	0	0	0	0	0	0	2.280	0
C402	1.64	1.65	1.65	0	0	0	0	0	0	0	0	0
C403	2.53	2.23	2.53	0	2.93	1.95	0	0	0	0	0	1.95
C404	2.92	2.93	2.93	0	0	0	0	0	0	0	0	0
C405	2.64	2.95	2.96	0	0	0	0	0	0	0	0	0
C407	2.95	2.95	2.94	0	2.97	0	0	2.91	2.97	2.97	0	2.94
C408	2.95	2.95	2.95	0	3	0	0	2.91	2.97	2.97	0	2.94
C409	0	0	0	0	0	2.91	2.93	2.92	2.93	2.94	2.91	0
C410	2.92	2.92	2.92	0	0	0	2.93	2.93	2.93	0	0	0
C411	2.96	2.96	2.96	2.93	2.96	2.96	2.95	2.96	2.96	2.94	2.96	2.94
PO Attainment	2.62	2.55	2.61	2.50	2.83	2.57	2.79	2.75	2.67	2.78	2.79	2.72

PO Attainment Level

Course	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
Direct Attainment	2.62	2.51	2.59	2.46	2.86	2.56	2.84	2.78	2.67	2.81	2.83	2.73
InDirect Attainment	2.6	2.7	2.7	2.64	2.69	2.61	2.59	2.64	2.65	2.65	2.62	2.70

PSO Attainment

Course	**PSO1**	**PSO2**	**PSO3**
C101	0	0	0
C102	3.00	3.00	0
C103	0	0	0
C104	0	0	0
C105	0	0	0
C106	0	0	0
C107	3.00	3.00	3.00
C108	0	0	0
C109	0	0	0
C110	3.00	3.00	0
C111	0	0	0
C112	3.00	0	0
C113	2.65	2.6	2.6
C114	3.00	3.00	3.00
C115	0	0	0
C116	3.00	3.00	3.00
C117	2.65	2.65	2
C201	2.92	2.91	0
C202	2.91	2.93	2.91
C203	2.93	2.93	2.93
C204	2.94	2.93	2.92
C205	2.91	0	0

C206	2.97	2.92	2.95
C207	2.91	2.97	2.65
C208	2.94	2.94	2.94
C209	0	0	0
C210	1.0	2.97	0
C211	1.64	1.65	0
C212	0	0.99	1.01
C213	2.28	2.28	2.28
C214	0.99	1.00	0
C215	0	0.02	1.00
C216	0	2.94	2.95
C217	2.91	1.97	3.00
C218	0	0	0
C301	1.00	0.99	0
C302	0	1.01	1.01
C303	0	2.97	0
C304	1.01	2.97	0
C305	0	2.97	1.01
C306	0	0	0
C307	0	2.96	2.91
C308	0	2.94	2.96
C309	0	2.67	2.97
C310	0	2.64	0.95
C311	2.28	1.83	1.83
C312	0	2.28	2.5
C313	1.08	1.08	0
C314	0	1.58	0
C315	0	3.00	2.95
C316	0	3.00	2.95
C317	0	2.97	2.97
C318	2.96	2.95	2.95
C319	0	0	0
C401	0	0	2.28
C402	0	1.65	1.65
C403	0	2.28	2.28
C404	0	2.91	2.29
C405	0	1.13	0.99
C406	0	2.94	2.94
C407	0	2.94	2.96
C408	0	0	0
C409	0	0	0
C410	0	2.91	2.91
C411	2.96	2.96	2.95
PSO Attainment	2.54	2.52	2.51

PSO Attainment Level

Course	**PSO1**	**PSO2**	**PSO3**
Direct Attainment	2.48	2.45	2.44
InDirect Attainment	2.79	2.8	2.8

4 STUDENTS' PERFORMANCE (150) Total Marks 110.27

:

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23(CAYm2)	2021-22(CAYm3)	2020-21(CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
Sanctioned intake of 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)	40	55	57	59	49	58	20
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	2	0	1	1	0	0
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	40	57	57	60	50	58	20

Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	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
2024-25 (CAY)	40	0	0	0	0
2023-24 (CAYm1)	57	23	0	0	0
2022-23 (CAYm2)	57	22	22	0	0
2021-22 (CAYm3)	60	10	7	7	0
2020-21 (LYG)	50	43	21	11	11
2019-20 (LYGm1)	58	13	10	10	8
2018-19 (LYGm2)	20	4	3	3	3

Table 4.3

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2024-25 (CAY)	40	0	0	0	0
2023-24 (CAYm1)	57	55	0	0	0
2022-23 (CAYm2)	57	57	54	0	0
2021-22 (CAYm3)	60	59	54	54	0
2020-21 (LYG)	50	49	44	44	44
2019-20 (LYGm1)	58	58	54	54	54
2018-19 (LYGm2)	20	20	18	18	18

4.1 Enrolment Ratio (20)

Total Marks 18.00

Institute Marks : 18.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2024-25 (CAY)	60	40	66.67
2023-24 (CAYm1)	60	55	91.67
2022-23 (CAYm2)	60	57	95.00

Average [(ER1 + ER2 + ER3) / 3] : 84.45

Assessment : 18.00

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

Total Marks 17.80

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

Institute Marks : 4.25

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYGm1 (2019-20)	Latest Year of Graduation minus 2 LYGm2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	50.00	58.00	20.00
Y Number of students who have graduated without backlogs in the stipulated period	11.00	8.00	3.00
Success Index [SI = Y / X]	0.22	0.14	0.15

Average SI [(SI1 + SI2 + SI3) / 3] : 0.17

Assessment [25 * Average SI] : 4.25

4.2.2 Sucess rate in stipulated period (15)

Institute Marks : 13.55

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYGm1 (2019-20)	Latest Year of Graduation minus 2 LYGm2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	50.00	58.00	20.00
Y Number of students who have graduated in the stipulated period	44.00	54.00	18.00
Success Index [SI = Y / X]	0.88	0.93	0.90

Average SI[(SI1 + SI2 + SI3) / 3]: 0.90

Assessment [15 * Average SI] : 13.55

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

4.3 Academic Performance in Third Year (15)

Total Marks 10.40

Institute Marks : 10.40

Academic Performance	CAYm3 (2021-22)	LYG (2020-21)	LYGm1 (2019-20)
Mean of CGPA or mean percentage of all successful students(X)	7.43	5.89	7.48
Total number of successful students(Y)	54.00	44.00	54.00
Totalnumber of students appeared in the examination(Z)	54.00	44.00	54.00
API [X*(Y/Z)]:	7.43	5.89	7.48

Average API [(AP1 + AP2 + AP3)/3] : 6.93

Assessment [1.5 * AverageAPI] : 10.40

4.4 Academic Performance in Second Year (15)

Total Marks 8.74

Institute Marks : 8.74

Academic Performance	CAYm2 (2022-23)	CAYm3 (2021-22)	LYG (2020-21)
Mean of CGPA or mean percentage of all successful students(X)	7.17	6.14	5.85
Total number of successful students (Y)	54.00	54.00	44.00
Total number of students appeared in the examination (Z)	57.00	60.00	50.00
API [X * (Y/Z)]	6.79	5.53	5.15

Average API [(AP1 + AP2 + AP3)/3] : 5.82

Assessment [1.5 * AverageAPI] : 8.74

4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 35.33

Institute Marks : 35.33

Item	LYG (2020-21)	LYGm1 (2019-20)	LYGm2 (2018-19)
Total No of Final Year Students(N)	44.00	54.00	18.00
No of students placed in the companies or government sector(X)	38.00	41.00	13.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	1.00	4.00	1.00
No of students turned entrepreneur in engineering/technology (Z)	1.00	1.00	2.00
x + y + z =	40.00	46.00	16.00
Placement Index [(X+Y+Z)/N] :	0.91	0.85	0.89

Average Placement [(P1 + P2 + P3)/3] : 0.88

Assessment [40 * Average Placement] : 35.33

Program Name :

Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ABINASH K	210520205001	SKILL DUNIA	DMICE/2023-24/IT001
2	ABINAYA B	210520205002	FOXCONN TECHNOLOGY	DMICE/2023-24/IT002
3	ATHIRA M	210520205006	THINKSYNQ	DMICE/2023-24/IT003
4	BENYA R S	210520205007	ZINNOV	DMICE/2023-24/IT004
5	CALWIN DONALD RAFTER	210520205008	THINKSYNQ	DMICE/2023-24/IT005
6	DHARMARAJ.R	210520205009	SKILL DUNIA	DMICE/2023-24/IT006
7	DINESH M	210520205011	SKILL DUNIA	DMICE/2023-24/IT007
8	DIVYA A	210520205012	THINKSYNQ	DMICE/2023-24/IT008
9	GAYATHRI B	210520205014	KODNEST	DMICE/2023-24/IT009
10	GAYATHRI V	210520205015	ACADEMOR	DMICE/2023-24/IT010
11	GOKUL K	210520205018	ACADEMOR	DMICE/2023-24/IT011
12	HARI PRASATH P	210520205020	KODNEST	DMICE/2023-24/IT012
13	DURGA U	210520205013	SALS EDUCATION ACADEMY	DMICE/2023-24/IT013
14	HARISHMA K	210520205021	SALS EDUCATION ACADEMY	DMICE/2023-24/IT014
15	VIGNESH A	210520205048	SALS EDUCATION ACADEMY	DMICE/2023-24/IT015
16	SOWMIYA S	210520205042	FOXCONN TECHNOLOGY	DMICE/2023-24/IT016
17	SAMUEL	210520205033	ACADEMOR	DMICE/2023-24/IT017
18	JOSHNA ASRIN K	210520205026	M/S TECHNOLOGIES	DMICE/2023-24/IT018
19	JAYASRI.S	210520205024	FOXCONN TECHNOLOGY	DMICE/2023-24/IT019
20	JOEL KEVIN D	210520205025	RINEX TECHNOLOGIES	DMICE/2023-24/IT020
21	KAMALA B	210520205028	SKILL DUNIA	DMICE/2023-24/IT021
22	SNEHA N	210520205041	SKILL DUNIA	DMICE/2023-24/IT022
23	SUDHARSAN S	210520205044	SKILL DUNIA	DMICE/2023-24/IT023
24	SRIGANTH G	210520205043	THINKSYNQ	DMICE/2023-24/IT024
25	SHIYAMALA S	210520205039	FOXCONN TECHNOLOGY	DMICE/2023-24/IT025
26	VIMALRAJ M	210520205049	ACADEMOR	DMICE/2023-24/IT026
27	VISHNU PRIYA V	210520205051	RINEX TECHNOLOGIES	DMICE/2023-24/IT027
28	SELVA KUMAR E	210520205037	SKILL DUNIA	DMICE/2023-24/IT028
29	LARSON JOEL SS	210520205029	SKILL DUNIA	DMICE/2023-24/IT029
30	SIVA M	210520205040	SKILL DUNIA	DMICE/2023-24/IT030
31	TYSON P	210520205047	SKILL DUNIA	DMICE/2023-24/IT031
32	JAGASRI. K	210520205022	FOXCONN TECHNOLOGY	DMICE/2023-24/IT032
33	NAVEEN K	210520205032	THINKSYNQ	DMICE/2023-24/IT033
34	VIMALRAJ V	210520205050	THINKSYNQ	DMICE/2023-24/IT034
35	HARI P	210520205019	SKILL DUNIA	DMICE/2023-24/IT035
36	MULLAIVENDHAN	210520205031	QSPIDER	DMICE/2023-24/IT036
37	MARY HELAN A	210520205030	QSPIDER	DMICE/2023-24/IT037
38	JAMES A	210520205023	QSPIDER	DMICE/2023-24/IT038

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ABDULLAH S	210519205001	BOTREE	DMICE/2022-23/IT001
2	ADLIN JEBISHA	210519205002	THINKSYNQ	DMICE/2022-23/IT002
3	ALWIN SELVA KUMAR	210519205004	LEAD PRO	DMICE/2022-23/IT003
4	ANAND XAVIER A	210519205005	LEAD PRO	DMICE/2022-23/IT004
5	ANGEL OZNI J	210519205006	SUTHERLAND	DMICE/2022-23/IT005
6	ANTHONY RAJ L	210519205007	LEAD PRO	DMICE/2022-23/IT006
7	ARAVIND S	210519205008	LEAD PRO	DMICE/2022-23/IT007
8	KOWSALYA P	210519205025	JOY TECHNOLOGY	DMICE/2022-23/IT008
9	KUNAL K	210519205026	TCS	DMICE/2022-23/IT009
10	LHAVANYA DEVI R N	210519205027	AVASOFT	DMICE/2022-23/IT010
11	MAMALLAN S	210519205029	LEAD PRO	DMICE/2022-23/IT011
12	MOHAMMED ASHIK S	210519205031	SUTHERLAND	DMICE/2022-23/IT012
13	MOHAMMED IMRAN R	210519205032	THINKSYNQ	DMICE/2022-23/IT013
14	NAVEEN AKSHI D	210519205033	LEAD PRO	DMICE/2022-23/IT014
15	NUSRATH FATHIMA M L	210519205034	AVASOFT	DMICE/2022-23/IT015
16	PARIMALA R	210519205035	LEAD PRO	DMICE/2022-23/IT016
17	PREETHI.C	210519205036	SUTHERLAND	DMICE/2022-23/IT017
18	RAGUL U M	210519205039	THINKSYNQ	DMICE/2022-23/IT018
19	RONALD JIM ROY	210519205041	SUTHERLAND	DMICE/2022-23/IT019
20	RUBANCHINNA RATHINAM	210519205042	SUTHERLAND	DMICE/2022-23/IT020
21	SABARINATH S	210519205043	LEAD PRO	DMICE/2022-23/IT021
22	SARANYA K	210519205045	SUTHERLAND	DMICE/2022-23/IT022
23	SONU PRASANTH R	210519205049	LEAD PRO	DMICE/2022-23/IT023
24	SOWMIYA K	210519205050	SUTHERLAND	DMICE/2022-23/IT024
25	SURYA J	210519205051	THINKSYNQ	DMICE/2022-23/IT025
26	THANGA TAMIL SELVAN	210519205052	LEAD PRO	DMICE/2022-23/IT026
27	UDHAYA KUMAR L	210519205053	GO DIGIT	DMICE/2022-23/IT027
28	VASUDEVAN R	210519205054	TVM	DMICE/2022-23/IT028
29	VENMATHI R	210519205056	UNLIMITED SOLUTIONS	DMICE/2022-23/IT029
30	VISWA R	210519205059	LEAD PRO	DMICE/2022-23/IT030
31	Arshiya J	210519205009	SUTHERLAND	DMICE/2022-23/IT031
32	Divya V	210519205013	LEAD PRO	DMICE/2022-23/IT032
33	Gokul S	210519205014	THINKSYNQ	DMICE/2022-23/IT033
34	Harish V	210519205015	THINKSYNQ	DMICE/2022-23/IT034
35	Jayachandran K	210519205016	LEAD PRO	DMICE/2022-23/IT035
36	Jaya Krishnan V	210519205017	SUTHERLAND	DMICE/2022-23/IT036
37	Kanagavalli K	210519205019	LEAD PRO	DMICE/2022-23/IT037
38	Karuna P	210519205020	THINKSYNQ	DMICE/2022-23/IT038
39	Kaviarasu K	210519205021	THINKSYNQ	DMICE/2022-23/IT039
40	Kaviya K	210519205022	SUTHERLAND	DMICE/2022-23/IT040
41	Kishore D	210519205023	SUTHERLAND	DMICE/2022-23/IT041

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	AALIYA ANNIES PERI A	210518205001	AVA SOFTWARE PVT LTD	DMICE/2021-22/IT001
2	ANCY FATHIMA	210518205002	THINKSYNQ CONSULTING	DMICE/2021-22/IT002
3	DARTHY PACKIYA X	210518205003	AVA SOFTWARE PVT LTD	DMICE/2021-22/IT003
4	GIRIJA	210518205004	AVA SOFTWARE PVT LTD	DMICE/2021-22/IT004
5	HEMALATHA	210518205005	THINKSYNQ CONSULTING	DMICE/2021-22/IT005
6	MANIKANDA PRABU	210518205006	INFINITI SOFTWARE	DMICE/2021-22/IT006
7	MOHAN RAJ	210518205008	THINKSYNQ CONSULTING	DMICE/2021-22/IT007
8	MOHAMMED THOUSEIF	210518205007	CAMPUS CONNECT	DMICE/2021-22/IT008
9	RAHUL RAJA	210518205010	CAMPUS CONNECT	DMICE/2021-22/IT009
10	RAMYA	210518205011	CAMPUS CONNECT	DMICE/2021-22/IT010
11	SIVANATHA	210518205012	CAMPUS CONNECT	DMICE/2021-22/IT011
12	SNEHA	210518205013	CAMPUS CONNECT	DMICE/2021-22/IT012
13	SWETHA D	210518205014	AVA SOFTWARE PVT LTD	DMICE/2021-22/IT013
14	TANOOSA VINCY	210518205018	THINKSYNQ CONSULTING	DMICE/2021-22/IT014
15	VEDASREE	210518205019	EXCELCOM INTERNSHIP PROGRAM	DMICE/2021-22/IT015
16	YOGARAJ	210518205020	CAMPUS CONNECT	DMICE/2021-22/IT016

4.6 Professional Activities (20)

Total Marks 20.00

4.6.1 Professional socities/ chapters and organizing engineering events (5)

Institute Marks : 5.00

Availability of Professional Societies

S.No	Name of Professional Society/Chapters
1	Computer Society of India-CSI
2	Indian Society for Technical Education-ISTE
3	ICT Academy
4	International Association of Engineers-IAENG
5	Computer Science teachers Association-CSTA

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

Institute Marks : 5.00

A. **Quality and relevance of the contents and Print Material**

Relevance of the Newsletter and Magazine

The memories of the past keep up our confidence and the hope of the future is what we live for, but the present is the one that keeps our essence alive. This is what the Newsletter - **ITcians** and e-Magazine - **IT spark** believe in-living in the present with a penchant for calibre in every realm of activity with confidence and vision of the future. This newsletter and magazine is reflecting our department quality in terms of all round excellence.

Quality of Print material

When it comes to printed materials, creating the right content is just half the battle and need to also have quality digital and offset printing. If do not utilize high-quality printing, there may a chances of losing a lot of viewers for sure. So the quality of following two materials are maintained.

- **Newsletter (ITcians) – Quarterly**
- **e-Magazines (IT spark)–Halferly**

The publication record of newsletters and periodicals demonstrates a sustained commitment to distributing information and updates in the field of Information Technology. The ITcians newsletter has been consistently issued biannually since August 2021, encompassing periods from August 2021 to January 2022 and from February 2024 to July 2024, all of which have been effectively released. The most recent edition, covering August 2024 to January 2025, has been published, while the forthcoming issue (February 2025 to July 2025) remains unreleased. The IT Spark magazine adheres to a yearly publishing cycle, with volumes released from August 2021 to June 2022 and from July 2023 to June 2024 already published. The most recent edition, encompassing July 2024 to June 2025, is yet to be published. These journals provide a significant platform for disseminating developments, research, and accomplishments within the mechanical engineering community, facilitating ongoing knowledge exchange and involvement.

News Letters

S.No	Name of the News Letter	Duration	Status	Editor
1	ITCians 2021-Even	Aug2021-Jan2022	Published	Mr.D.Jeba kingsley
2	ITCians 2022-Odd	Feb2022-July2022	Published	Mr.D.Jeba Kingsley
3	ITCians 2021-Even	Aug2022-Jan 2023	Published	Mr.D.Jeba kingsley
4	ITCians 2021-Odd	Feb2023-July2023	Published	Mr.D.Jeba kingsley
5	ITCians 2021-Even	Aug2023-Jan 2024	Published	Mr.D.Jeba kingsley
6	ITCians 2021-Odd	Feb2024-July2024	Published	Mr.D.Jeba kingsley
7	ITCians 2021-Even	Aug2024-Jan 2025	Published	Mr.D.Jeba kingsley
8	ITCians 2021-Odd	Feb2025-July2025	Yet to Publish	Mr.D.Jeba kingsley

Magazines

S.No	Name of the Magazine	Duration	Status	Editor	Chief Editor
1	ITSpark'22	Aug2021-June 2022	Published	Mr.D.Jeba kingsley Mrs.J.Jenifer	Dr.B.Muthukumar
2	ITSpark'23	Aug2022-June 2023	Published	Mr.D.Jeba kingsley Mrs.J.Jenifer	Dr.B.Muthukumar
3	ITSpark'24	July 2023-June2024	Published	Mr.D.Jeba kingsley Mrs.J.Jenifer	Mrs.S.Maheswari
4	ITSpark'25	July 2024-June2025	Yet to Publish	Mr.D.Jeba kingsley Mrs.J.Jenifer	S.Mary Diana

4.6.3 Participationininter-institute events by students of the program of study (10) Institute Marks : 10.00

A. **Events within the state.**

CAY 2024-2025

S.NO	Name	YEAR	EVENT NAME	COLLEGE	REMARKS
1	Narendran.K	2024	TechTronix 24	Alpha College of Engineering	Won First Prize
2	Yogeswaran.S	2024	TechTronix 24	Alpha College of Engineering	Won First Prize
3	Sriganth.G	2024	Boot Up 24	Rajalakshmi Engineerng college	Participated
4	Sowmiya.S	2024	Boot Up 24	Rajalakshmi Engineerng college	Participated
5	Anish.S	2024	TechTronix 24	Alpha College of Engineering	Participated
6	Vijay.R	2024	TechTronix 24	Alpha College of Engineering	Participated
7	Akash.G.D	2024	TechTronix 24	Alpha College of Engineering	Participated
8	Thulasivel.K	2024	TechTronix 24	Alpha College of Engineering	Participated
9	Pavithra.A.S	2024	WHIMZIAL 3.0	SIMATS engineering college	Participated
10	Tharun.S	2024	WHIMZIAL 3.0	SIMATS engineering college	Participated
11	Shaam Kumar.S	2024	WHIMZIAL 3.0	SIMATS engineering college	Participated
12	Suresh.k	2024	WHIMZIAL 3.0	SIMATS engineering college	Participated
13	Sanjay Kumar	2024	TechTronix 24	Alpha College of Engineering	Participated
14	Anish.S	2024	Presto'24	SIMATS engineering college	participated
15	Thulasivel.K	2024	Presto'24	SIMATS engineering college	participated

CAYm1-2023 – 24

S.NO	NAME	YEAR	EVENT NAME	COLLEGE	REMARKS
1	Sathishkumar	2024	IWD'24	Altimetrik	Participated
2.	Jayasri	2024	IWD'24	Altimetrik	Participated
3.	Karthikeyan k	2024	IWD'24	Altimetrik	Participated
4.	Keerthana	2024	IWD'24	Altimetrik	Participated
5.	Selvin Paulraj K	2024	IWD'24	Altimetrik	Participated
6.	Sakthivel P	2024	IWD'24	Altimetrik	Participated
7.	Immaculate	2024	IWD'24	Altimetrik	Participated
8.	Jesica Mary	2024	IWD'24	Altimetrik	Participated
9.	Abishek Ramanan	2024	Codeathon 2.0	Prathyusha Engineering college	Participated
10.	Sakthivel P	2024	Codeathon 2.0	Prathyusha Engineering college	Participated
11.	Akash	2024	Codeathon 2.0	Prathyusha Engineering college	Participated

12.	Keerthick Raja	2024	Codeathon 2.0	Prathyusha Engineering college	Participated
13.	Rajeswari.v	2024	Codeathon 2.0	Prathyusha Engineering college	Participated
14.	Selvin Paulraj K	2024	Codeathon 2.0	Prathyusha Engineering college	Participated
15.	Sathish kumar P	2024	Codeathon 2.0	Prathyusha Engineering college	Participated
16.	Sakthivel K	2024	Codeathon 2.0	Prathyusha Engineering college	Participated
17.	Gopinath G	2024	Codeathon 2.0	Prathyusha Engineering college	Participated
18.	Gopinath G	2024	IWD'24	Altimetrik	Participated
19.	Yokeshwaran	2024	Prabhignyan	Prathyusha Engineering college	Participated
20.	Selvin Paulraj K	2024	Phantom FX	DMI College of Engineering	Participated
21.	Sundar	2024	Prabhignyan	Prathyusha Engineering college	Participated
22.	Sundar P	2024	McADRIT'24	Easwari Engineering college	Participated
23.	Sakthivel.P	2024	Ease the Error 4.0	DMI college of engineering	Participated
24.	Selvin Paulraj K	2024	Ease the Error 4.0	DMI College of Engineering	Participated
25.	Abhishek. R	2024	Ease the Error 4.0	DMI College of Engineering	Participated
26.	Karthikeyan K	2024	Ease the Error 4.0	DMI college of engineering	Participated
27.	Gokul.S	2024	Ease the Error 4.0	DMI College of Engineering	Participated
28.	JayaSree R	2024	Prabhignyan	Prathyusha Engineering college	Participated

CAYm2-2022-23

S.NO	NAME	YEAR	EVENT NAME	COLLEGE	REMARKS
1	Pavithra.A.S	2023	WHIMZIAL 3.0	SIMATS engineering college	Participated
2.	Akash G.D	2023	FESTX'23	SAI RAM engineering college	Participated
3.	Anish.S	2023	FESTX'23	SAI RAM engineering college	Participated
4.	Tharun.S	2023	FESTX'23	SAI RAM engineering college	Participated
5.	Jayashree Rajini kanth	2023	KMUTNB	King Mongkut's University, Thailand	Participated
7.	Thabeethal Asnath I	2023	NCESTH-2023	DMI college of engineering	Participated
8.	Lakshmi.V	2024	Prabhignyan	Prathyusha Engineering college	Participated
9.	Sandhiya.S	2023	DEVXPO'2K23	SRIRAM engineering college	Participated
10.	Sandhiya.S	2024	Prabhignyan	Prathyusha Engineering college	Participated
11.	Sultan Abdul Kahader	2023	NCESTH-2023	DMI college of engineering	Participated
12.	Abitha.A	2023	INCAST23	Kapaga Vinayaga College of engineering	Participated
13.	Maheswari.S	2023	NCESTH-2023	DMI college of engineering	Participated
14.	Jayashree	2024	Masterclass2023	NoviTech R&D pvt.Ltd	Participated

CAYm3-2021-22

S.NO	Name	YEAR	EVENT NAME	COLLEGE	REMARKS
1	Angel ozni	2022	IJIRSET	Kings college Of Engineeing	Participated
2	Somalakshmi	2022	IJIRSET	Kings college Of Engineeing	Participated
1	Venmathi R	2022	TECHFEST 2K22	ST.Joseph college of Engineering	Participated
2	Kishore.D	2022	TECHFEST 2K22	ST.Joseph college of Engineering	Participated
3	Maheswari.S	2022	TECHFEST 2K22	ST.Joseph college of Engineering	Participated
4	Divya.V	2022	TECHFEST 2K22	ST.Joseph college of Engineering	Participated

Table B.4.6.3a

B. **Events Outside the State:**

S.NO	NAME	YEAR	EVENT NAME	COLLEGE	REMARKS
1	Jayashree Rajini kanth	2023	KMUTNB	King Mongkut's University, Thailand	Presented
2.	Shiyamala.S	2024	IEEE-NITPY	National Institute of Technology, Puducherry	Participated
3.	Harishma.S	2024	IEEE-NITPY	National Institute of Technology, Puducherry	Participated

C. Prizes/awards received in such events

Sl.No	Register Number	Name of the Student	Event Date	Event Details	Institution/ Organization	Achievement
1	210521205048	Mr.Selvin Paulraj	09-03-2024	SheInnovates – Hackathon	Altimetrik	Third Prize Rs4000/- cashprize
2	210521205045	Mr. Sakthivel	09-03-2024	SheInnovates – Hackathon	Altimetrik	Third Prize Rs4000/- cashprize
3	210521205025	Ms.Jesica Mary	09-03-2024	SheInnovates – Hackathon	Altimetrik	Third Prize Rs4000/- cashprize
4	210521205021	Ms.Immaculate	09-03-2024	SheInnovates – Hackathon	Altimetrik	Third Prize Rs4000/- cashprize
5	210521205027	Mr.Kathrivel	14-03-2024	Hackathan	Alpha College of Engineering	first prize
6	210521205047	Mr.SathishKumar	14-03-2024	Hackathan	Alpha College of Engineering	first prize

7	210521205036	Narendran.K	30-8-2024	TechTronix 24	Alpha College of Engineering	First Prize
8	210521205059	Yogeswaran.S	30-8-2024	TechTronix 24	Alpha College of Engineering	First Prize

5 FACULTY INFORMATION AND CONTRIBUTIONS (200) Total Marks 192.00

Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Initial Date of Joining	Ass Typ
Dr.K.KALAIKUMAR	DNIPK0139N	ME/M. Tech and PhD	22/06/2020	Information Technology	1	0	0	Associate Professor		24/07/2023	Reg
Dr. R.BALAMURUGAN	AIRPB8556B	ME/M. Tech and PhD	11/07/2022	Computer Science and Engineering	1	0	0	Associate Professor		04/08/2023	Reg
Mrs. M. MAHESWARI	BCJPM8978B	ME/M. Tech and PhD	19/04/2008	Computer Science and Engineering	2	0	0	Assistant Professor		23/06/2006	Reg
Mrs. S. MARY DIANA	BHIPM2750F	ME/M. Tech and PhD	19/04/2008	Computer Science and Engineering	0	0	0	Assistant Professor		01/07/2013	Reg
Ms. J.JENIFER	AUSPJ5132C	ME/M. Tech and PhD	04/01/2016	Information Technology	0	0	0	Assistant Professor		19/06/2017	Reg
Ms.B.HAMLET	BINPH2209E	ME/M. Tech and PhD	13/06/2019	Computer Science and Engineering	0	0	0	Assistant Professor		18/01/2018	Reg
Mrs.DERISHA MAHIL	BPGPD4582N	ME/M. Tech and PhD	10/10/2012	Computer Science and Engineering	0	0	0	Assistant Professor		14/03/2022	Reg
Mr.JEBA KINGSLEY D	ANPPJ0506N	ME/M. Tech and PhD	12/05/2011	Information Technology	2	0	0	Assistant Professor		21/03/2022	Reg
Mrs.SYLVIASHARON D	GAZPS9147B	ME/M. Tech and PhD	24/06/2014	VLSI Design	1	0	0	Assistant Professor		29/07/2022	Reg
Mrs.V.NAGESWARI	AQSPN8701H	ME/M. Tech and PhD	20/05/2017	Computer Science and Engineering	0	0	0	Assistant Professor		02/02/2023	Reg
Mrs. N.VINODHA	VZVPS6737P	ME/M. Tech and PhD	02/01/2012	Electronics and Communication Engineering	0	0	0	Assistant Professor		10/07/2023	Reg
MrS. DIVYA.K	BNJPD8797C	ME/M. Tech and PhD	20/05/2013	Computer Science and Engineering	0	0	0	Assistant Professor		03/01/2024	Reg
Dr B MUTHUKUMAR	AMLPM1014D	ME/M. Tech and PhD	30/04/2013	Computer Science and Engineering	4	0	0	Professor		09/07/2021	Reg
Mrs.F MERLINE CHRISTO	CEZPM8929R	ME/M. Tech and PhD	31/07/2017	Computer Science and Engineering	0	0	0	Assistant Professor		18/02/2021	Reg
Mr L ARUL JAYA PRAKASH	BRMPJ8556L	ME/M. Tech and PhD	30/06/2018	Computer Science and Engineering	0	0	0	Assistant Professor		02/09/2021	Reg

5.1 Student-Faculty Ratio (20) Total Marks 18.00

Institute Marks : 18.00

UG

No. of UG Programs in the Department 1

B.Tech - Information Technology						
Year of Study	**CAY**		**CAYm1**		**CAYm2**	
	(2024-25)		**(2023-24)**		**(2022-23)**	
	Sanction Intake	**Actual admitted through lateral entry students**	**Sanction Intake**	**Actual admitted through lateral entry students**	**Sanction Intake**	**Actual admitted through lateral entry students**
2nd Year	60	2	60	0	60	1
3rd Year	60	0	60	1	60	0
4th Year	60	1	60	0	60	0
Sub-Total	**180**	**3**	**180**	**1**	**180**	**1**
Total	**183**		**181**		**181**	
Grand Total	183		181		181	

PG

No. of PG Programs in the Department 0

Grand Total			

SFR

No. of UG Programs in the Department 1

No. of PG Programs in the Department 0

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)
Total No. of Students in the Department(S)	183 **Sum total of all (UG+PG) students**	181 **Sum total of all (UG+PG) students**	181 **Sum total of all (UG+PG) students**
No. of Faculty in the Department(F)	11 **F1**	12 **F2**	10 **F3**
Student Faculty Ratio(SFR)	16.64 **SFR1=S1/F1**	15.08 **SFR2=S2/F2**	18.10 **SFR3=S3/F3**
Average SFR	16.61 **SFR=(SFR1+SFR2+SFR3)/3**		
F=Total Number of Faculty Members in the Department (excluding first year faculty)			

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

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

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

	Total number of regular faculty in the department	Total number of contractual faculty in the department
CAY(2024-25)	11	0
CAYm1(2023-24)	12	0
CAYm2(2022-23)	10	0

Average SFR for three assessment years : 16.61

Assessment SFR : 18

5.2 Faculty Cadre Proportion (25) Total Marks 24.00

Institute Marks : 24.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2024-25)	1.00	0.00	2.00	2.00	6.00	9.00
CAYm1(2023-24)	1.00	1.00	2.00	2.00	6.00	9.00
CAYm2(2022-23)	1.00	1.00	2.00	0.00	6.00	9.00
Average Numbers	1.00	0.67	2.00	1.33	6.00	9.00

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 : 24.00

5.3 Faculty Qualification (25)

Total Marks 25.00

Institute Marks : 25.00

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F)]
2024-25(CAY)	11	0	9.00	30.56
2023-24(CAYm1)	12	0	9.00	33.33
2022-23(CAYm2)	10	0	9.00	27.78

Average Assessment : 30.56

5.4 Faculty Retention (25)

Total Marks 20.00

Institute Marks : 20.00

Description	2023-24	2024-25
No of Faculty Retained	8	6
Total No of Faculty	9	9
% of Faculty Retained	89	67

Average : 78.00

Assessment Marks : 20.00

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

Total Marks 20.00

Institute Marks : 20.00

The Institute supports instructors in creating a student-centered learning environment, prioritizing active engagement over traditional teacher-centered approaches. Research indicates that most students struggle to maintain focus throughout an entire lecture, with attention beginning to wane after approximately 30 minutes. Initially, lapses in concentration are brief but gradually extend, resulting in reduced comprehension and retention. Studies have shown that students retain about 70% of the information presented in the first 30 minutes of a lecture, but this retention drops to just 20% in the following 20 minutes. To enhance learning outcomes, faculty members employ innovative and effective pedagogical strategies.

A. The work must be made available on Institute Website:

The colleges website https://dmice.ac.in/, along with its Information Technology Department page https://dmice.ac.in/information-technology/ (https://dmice.ac.in/information-technology/), serves as a comprehensive resource for students and other users. By providing easy access to both academic and non-academic information, this online platform promotes transparency in all college activities and events. The various academic details included involves video lectures, roleplay , flipped learning etc.

Table 5.5.1 – Details of video lectures by faculty members

S.NO	Subject Name	Topics	Faculty handled
1	Data stuctures and Algorithms	AVL Tree	Dr.K.KALAI KUMAR
2	Artificial Intelligence and Machine Learning	Supervised learning	Dr. R.BALAMURUGAN
3	Web Essentials	Web Server	Mrs. DIVYA.K
4	Data Structures	Binary search tree	Mrs. S. MARY DIANA
5	Cloud Computing	Virtualization and its types	Ms. J.JENIFER
6	UI/UX	Wire framing and creation of wire flows	Mr.JEBA KINGSLEY D
7	Business analytics	Analytics Life Cycle	Mrs.SYLVIA SHARON D
8	Computer Networks	Topologies	Mrs.V.NAGESWARI
9	Embedded and IOT	Arduino and types	Mrs. N.VINODHA
10	Operating Systems	Bankers Algorithms	Mrs. DIVYA.K

Here are some innovative teaching and learning strategies that our faculty members are implementing to enhance education:

NPTEL courses are guided by experienced faculty mentors who provide valuable support. These mentors receive certification for their guidance, motivating students to enroll in multiple courses and enhance their learning experience.

Table 5.5.2 – NPTEL MENTORS

S.NO	YEAR	FACULTY AS NPTEL MENTORS	NAME OF THE COURSE
1	2024-2025	Mrs.V.NAGESWARI	DISTRIBUTED SYSTEMS
2		Mrs. SYLVIA SHARON D	DISTRIBUTED SYSTEMS
3		Mrs . JENIFER J	SOFT SKILLS
4		Mrs.S.P.SUBHA	INTRODUCTION TO IOT
5		Mrs.MARY DIANA	SOFT SKILLS
1	2023-2024	Mrs.V.NAGESWARI	DEMYSTIFYING NETWORK
2		Mrs. JENIFER J	DEMYSTIFYING NETWORK
3		Mrs. JENIFER J	CLOUD COMPUTING

Flipped Classrooms: Pre-recorded lectures and notes available in CAMU and interactive in-class sessions.

Peer Teaching: Students teach each other to reinforce understanding.

Industry Collaboration : Collaborations with companies for hands-on ,workshops and seminars.

Table 5.5.3 – Event list

S NO	DATE	EVENTS	RESOURCE PERSON
1	30-01-2024 &01-02-2024	Mobile Application Development	Mr. M. Gokul, Technical Lead, Pocket Technology, Chennai
2	03-02-2024	Software Testing	Mrs. S. Anusha, Lead Analysit, CGI, Chennai.

3	14-2-2024	Cloud Computing Using Docker	Mr. R. Nambi Venkatesh, Tech Mahindra, Chennai
4	04-03-2024 & 05-03-2024	Full Stack Web Development	Mr. A. Anbuselvan, CEO, Cyberdue Networks Pvt Ltd.

B. The work must be available for peer review and critique:

Innovative instructional strategies are implemented from the first year, sparking students enthusiasm and capturing their attention by offering a distinct contrast to traditional teaching methods. Faculty members have the flexibility to select the most suitable teaching approaches. The IQAC assesses these novel pedagogical techniques and provides timely feedback. Faculty members refine their methods through peer consultations, making necessary adjustments to enhance effectiveness.

C.The work must be reproducible and developed further by other scholars.

Innovative teaching methods introduced by one instructor can be replicated or further enhanced by others, fostering continuous refinement and system stability. To support this process, materials are made available on the Institutes website and ERP software, facilitating understanding and implementation of these approaches among faculty members. As all resources are published on the Institutes website, they remain accessible to everyone, ensuring ongoing improvements. Course materials are reproduced as needed.

Establishing technical clubs like **Data Science** and **APPXperts** provides students with practical exposure to emerging technologies while fostering a culture of continuous learning and innovation.

Here’s how these clubs enhance students’ technical knowledge:

- Encourages students to work on real-world projects beyond their coursework.
- Provides exposure to **AI, machine learning, app development, data analytics, and more**.
- Older students mentor juniors, ensuring **skill continuity**.
- Each batch improves upon previous projects, leading to long-term **project evolution**.
- Promotes teamwork, problem-solving, and **interdisciplinary learning**.
- Helps students stay updated with **industry trends and emerging technologies**.
- Builds a strong **portfolio of projects** that enhance employability.
- Encourages participation in **hackathons, internships, and industry collaborations**.

CLUB ACTIVITIES:

Table 5.5.3 – CLUB ACTIVITIES

S.NO	EVENTS	DATE OF EVENTS	CLUB
1.	Seminar on python library	15-03-2024	Data Science Club
2.	Seminar on Data Science	21-03-2024	
3.	Quiz	13-04-2024	
4.	Designing a Web Page	24-04-2024	
5.	Project using GitHub	27-05-2024	
6.	Design Feast	15-11-2024	
6.	Quiz	22-03-2024	Appxperts Club
7.	Seminar	17-04-2024	
8.	Seminar-Firebase Flutter	24-04-2024	
9.	Develop Movie rating app	04-05-2024	
10.	Hackathon	29-10-2024	

D. **Statement of clear goals, use of appropriate methods, significance of results, effective presentation and reflective critique**

DMI College of Engineering adopts student-centric methods to make teaching-learning more effective. Traditional teaching, along with ICT-enabled facilities, creates more innovative and creative ways of disseminating, sharing, and imparting knowledge to develop students skills. ICT-enabled teaching includes Wi-Fi-enabled classrooms with projectors, smart classrooms, e-learning, etc. The institution adopts modern pedagogy to enhance the teaching-learning process. Online classes, webinars, and seminars are conducted through Google Classroom. E-materials are posted which are accessible to the students to gather a priori knowledge about the topic of discussion. ICT tools used in the teaching-learning process include:

- Smart classrooms
- Video conferencing/virtual classrooms
- Google Classroom, Google Meet, Zoom
- MOOCs (Online courses)
- CAMU (Learning Management System)
- Digital library resources

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

Total Marks 15.00

Institute Marks : 15.00

Name of the faculty	Max 5 Per Faculty		
	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
Dr.K.KALAIKUMAR	5.00	5.00	0.00
Dr. R.BALAMURUGAN	5.00	0.00	0.00
Mrs. M. MAHESWARI	5.00	5.00	5.00
Mrs. S. MARY DIANA	5.00	5.00	5.00
Ms. J.JENIFER	5.00	5.00	5.00
Ms.B.HAMLET	0.00	5.00	0.00
Mrs.DERISHA MAHIL	0.00	0.00	5.00
Mr.JEBA KINGSLEY D	5.00	5.00	5.00
Mrs.SYLVIASHARON D	5.00	5.00	0.00
Mrs.V.NAGESWARI	5.00	5.00	0.00
Mrs. N.VINODHA	5.00	5.00	0.00
MrS. DIVYA.K	5.00	0.00	0.00
Dr B MUTHUKUMAR	0.00	5.00	0.00
Mrs.F MERLINE CHRISTO	0.00	0.00	0.00
Mr L ARUL JAYA PRAKASH	0.00	0.00	0.00
Sum	50.00	50.00	25.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	9.15	9.05	9.05
Assessment [3*(Sum / 0.5RF)]	32.79	33.15	16.57

Average assessment over 3 years: 27.50

5.7 Research and Development (30) Total Marks 30.(

5.7.1 Academic Research (10)

Institute Marks : 10.(

5.7.1 ACADEMIC RESEARCH

Table 5.7.1 List of Publication Details in Refereed/ SCI Journals

Table 5.7.1 (a) List of journal Publications for the Academic Year 2023-24

Sl.No	Name of the Authors	Title of the Paper	Month & Year	Volume, Issue & Page No	Name of the Journal with Publisher / ISSN Number	DOI Link	Category(SC ESCI, Scopus, WoS Others)
1	Dr.K.Kalaikumar	Strengthening security in IoT based on smart cities utilizing cycle	Oct-24	volume 18,issue 75	Peer-to-Peer Networking and Applications (2025)	https://doi.org/10.1007/s12083-024-01838-0	Springer
2	Dr.K.Kalaikumar	Secure privacy - enchanced fast authentication and key management for iomt enabled smart healthcare system	May-24	volume 10	International Research Journal of Modernization in Engineering Technology and Science	https://doi.org/10.1007/s00607-024-01291-0 (https://doi.org/10.1007/s00607-024-01291-0)	Springer
3	Dr.K.Kalaikumar	Safety Helmet and Face mask detection using Convolutional Neural network	Jun-23	volume 5,issue 6	International Research Journal of Modernization in Engineering Technology and Science	https://www.doi.org/10.56726/IRJMETS42611 (https://www.doi.org/10.56726/IRJMETS42611)	ISSN
4	Dr.M.Muthukumar	Using Quantum hybrid join prediction model to predict future trajectory motion during transit train movement	Jun-23	volume 27	Measurement: Sensors	https://doi.org/10.1016/j.measen.2023.100786 (https://doi.org/10.1016/j.measen.2023.100786)	Scopus
5	Dr.M.Muthukumar	Industrial Machine Learning Cloud Applications: Integrity and Confidentiality of Machine Sensitive Data	Mar 2023	volume 17	Springer book series on Communications in Computer and Information Science,CCIS 1719, (https://www.springer.com/series/7899)	doi.org/10.1007/978-3-031-27622-4_16 (http://doi.org/10.1007/978-3-031-27622-4_16)	Scopus
6	Dr.M.Muthukumar	Editorial cloud collaborative service improves authorized industrial server database performance	Jan-23	Vol. 29, No. 1	Indonesian Journal of Electrical Engineering and Computer Science	10.11591/ijeecs.v29.i1.pp441-450	Scopus
7	Mrs.M.Maheswari	Optimized attention-induced multihead convolutional neural	01-Apr-23	Vol 6	ORIGINAL ARTICLE	https://doi.org/10.1007/s11517-024-03106-y	Springer
8	Mrs.M.Maheswari	Enhancing Dermatology Diagnosis : Automated Skin Cancer Classification using CNN	Jan-23	Vol 14	International Journal of Advanced Trends in Engineering and Management (ISSN 2583-7052)	ISSN 2583-7052	ISSN
9	Dr.M.Muthukumar	Rough Set based Opinion Classification in Epilepsy Patients	Jan 2023	Vol 36, No 2	Malaysian journal of computer science (UNIV MALAYA)	https://www.doi.org/10.22452/mjcs.vol36no1.3 (https://www.doi.org/10.22452/mjcs.vol36no1.3)	SCI
10	Dr.M.Muthukumar	Editorial cloud collaborative service improves authorized industrial server database performance	Jan 2023	Vol 29	Indonesian Journal of Electrical Engineering and Computer Science	10.11591/ijeecs.v29.i1	Scopus

11	Dr.M.Muthukumar	A machine learning framework for providing data integrity and confidentiality for sensitive data cloud applications	July 2022	Vol 11	International Journal of System Assurance Engineering and Management (https://www.scopus.com/authid/detail.uri?authorId=56402020600#disabled)	https://doi.org/10.1007/s13198-022-01741-y (https://doi.org/10.1007/s13198-022-01741-y)	Scopus
12	Dr.M.Muthukumar	Analysis of Special Children Education Using Data Mining Approach	Jan 2022	Vol 32	International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems (https://www.worldscientific.com/worldscinet/ijufks)	https://doi.org/10.1142/S0218488522400074, (https://doi.org/10.1142/S0218488522400074)	SCI
13	Dr.M.Muthukumar	An efficient botnet detection approach based on feature learning and classification	May 2022	Vol 18	Journal of Control and Decision	https://doi.org/10.1080/23307706.2022.2077246 (https://doi.org/10.1080/23307706.2022.2077246)	Scopus
14	Dr.M.Muthukumar	A deep recursively learning LSTM model to improve cyber security Botnet attack intrusion detection	May 2022	Vol 14	International Journal of Modeling, Simulation, and Scientific Computing (https://www.scopus.com/authid/detail.uri?authorId=56402020600#disabled)	doi.org/10.1142/S1793962323410180 (http://doi.org/10.1142/S1793962323410180)	Scopus
15	Dr.M.Muthukumar	Performance Evaluation of Biometric Authentication and Classification Using Deep Learning Approach	April 2022	Vol 9	International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI)	10.1109/ACCAI53970.2022.9752474	Scopus
16	Mrs.M.Maheswari	Molecular docking studies of different phytochemicals obtained from medicinal plants of Uttarakhand region for identification of potential inhibitors against mucormycosis causing fungal species	06-Feb-23	volume 15	Journal ofApplied and Natural Science	https://doi.org/10.31018/	Scopus
17	Mrs.M.Maheswari	The influence of Green Marketing on Consumer Purchasing Behaviour with a specific focus on HyperMarkets in Tiruchirappalli	January 2024	Vol-20,Iss-01	International Journal of Cultural Studies and Social Sciences	ISSN 2347-4777	ISSN
18	Mrs.M.Maheswari	Artificial Intelligence for product quality Inspection towards SMART Industries	Jan-24	Vol-20,Iss-01	International Journal of Cultural Studies and Social Sciences	ISSN 2347-4777	UGC
19	Mrs.M.Maheswari	Prediction and Analysis of Various Cyber Attack Models in Cyber Physical System in Virtual Environment	April 2024	Vol 19	International Conference on Augmented Intelligence and Sustainable Systems	IEEE Conference & Proceedings	IEEE

20	D.Jeba Kingsley	Decentralizaed Blockchain With Convolutional Neural Network Model For Security Attack Mitigation	March 2023	Vol 14.Issue 1	ICTACT Journal on Communication Technology	10.21917/ijct.2023.0422	ICTACT
21	D.Jeba Kingsley	Enhancing Transmitted TExt Security With Image Key Cryptography And Deepnets	June 2023	Vol 14,Issue 02	ICTACT Journal on Communication Technology	10.21917/ijct.2023.0440	ICTACT
22	Sylvia Sharon D	Multimodal Depression detection from facial landmark features using LSTM Model	May 2023	Vol 12	IJARCCE International journal of advanced research in computer and communication Engineering	10.17148/IJARCCE 2023.125123	NAAS accrediated science Journal

Table 5.7.1 (b) Details of Books/Book Chapters Published

Sl.No	Name of the Faculty	Book Published	Year	ISBN
1	Dr.K.Kalaikumar	Biodegradable energy storage devices	2023	978-10-0334-053-9
2	Mrs.M.Maheswari	Introduction to MAchine Learning	2024	978-93-6260-007-3
3	Mrs.M.Maheswari	Education across Borders: A Global Call for Diversity	2024	978-81-972806-1-0
4	Mrs.M.Maheswari	Education and Economic Development:Bridging the gap for a Better Tomorrow	2024	978-81-976277-2-9

Table 5.7.1 (c) Faculty Pursuing Ph.D.

Sl.No	Name of the Faculty	University	Registration Month & Year	Status
1	Mr.D.Jeba Kingsley	Anna University	Jan-24	Course Work

Table 5.7.1 (d) Publications in Conferences

Sl.No	Name of the Authors	Title of the Paper	Month & Year	ISBN
1	Mary Diana S	Unveiling fraudulent transactions using logistic regression	2024	ISBN: 978-81-97133-99-2
2	Maheswari M	Prediction of solar power generation and radiation usingmachine learning algorithms	2024	ISBN: 978-81-97133-99-2
3	R. Balamurugan	Nature disaster classification using tensorflow and keras model	2024	ISBN: 978-81-97133-99-2
4	Maheswari M	Hotel booking system using augumented reality	2024	ISBN: 978-81-97133-99-2
5	Maheswari M Mrs Mary Diana S Mrs Jenifer J	Hotel booking system using virtual reality	2024	ISBN: 978-81-97133-99-2
8	Nageswari V	Synergizing deep learning and tkinter for brain tumor detection interface	2024	ISBN: 978-81-97133-99-2
9	Jeba Kingsley	Enhancing diagnostics: cnns for automated malaria cell classification	2024	ISBN: 978-81-97133-99-2

10	Vinodha	Macula oct disease images classification using deep learning techniques	2024	ISBN: 978-81-97133-99-2
11	Jeba Kingsley	Cardio insight: a hybrid approach for data analytics inpredicting and managing heart diseases	2024	ISBN: 978-81-97133-99-2
12	Mary Diana S	Analyse & predict the air pollution in india using memory based learning approaches	2024	ISBN: 978-81-97133-99-2
13	D. Jeba Kingsley	Model selection of hybrid feature fusion for coffee leaf disease - classification by using	2024	ISBN: 978-81-97133-99-2 ISBN: 978-81-97133-99-2
15	Jenifer J	A broad assistance on crisis circumstance utilizing web application	2024	ISBN: 978-81-97133-99-2
16	Sylvia Sharon D	Network traffic cyber attack classification using supervised machine learning techniques	2024	ISBN: 978-81-97133-99-2

Table 5.7.1 (e) Details of Patents

Sl.No	Name of the Faculty	2023-2024
1	Dr.K.KALAIKUMAR	1
2	Dr. R.BALAMURUGAN	2
3	Mrs. M. MAHESWARI	2
4	Mrs. S. MARY DIANA	2
5	Ms. J.JENIFER	2
8	Mr.JEBA KINGSLEY D	1
9	Mrs.SYLVIASHARON D	1
10	Mrs.V.NAGESWARI	1
11	Mrs. N.VINODHA	1
12	MrS. DIVYA.K	1
13	Dr B MUTHUKUMAR	2
	Total	16

5.7.2 Sponsored Research (5) Institute Marks : 5.00

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount
Health Bot	3 years	Object Automation System Solution Pvt.Ltd	1000000.00
Robotic Humanoids: Bridging Technology and Human Interaction	3 Years	AI Robo infinity Pvt.Ltd	975000.00
			Total Amount(X): 1975000.00

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount
GENERATIVE AI AND ITS APPLICATIONS	5 days	AICTE Training and Learning (ATAL)	250000.00
			Total Amount(Y): 250000.00

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount

Cumulative Amount(X + Y + Z) =

5.7.3 Development Activities (10) Institute Marks : 10.00

A. **Product Development**

Title: TroothView – AI-Powered Real vs. AI-Generated Image Detection

Description:

TroothView is an AI-driven platform that helps users distinguish between real and AI-generated images. Using the dima806/ai_vs_real_image_detection API, the system analyzes uploaded images and determines whether they are authentic or AI-generated.By leveraging deep learning and computer vision, TroothView detects patterns, textures, and inconsistencies that indicate image manipulation. This tool is particularly useful in combating misinformation, deepfake detection, and verifying media authenticity.TroothView aims to provide a simple and reliable solution for identifying AI-generated visuals, making digital content more transparent and trustworthy.

Title: Namma Chance – Sync the Moment

Description:

Namma Chance is an innovative event management platform designed to simplify event registration, participation, and engagement for students, organizers, and communities. Tailored for engineering students in Tamil Nadu, it provides a seamless experience from event discovery to post-event memories.With QR-based entry and exit, attendees can check in and out effortlessly, eliminating manual verification and long queues. The AI-powered personalized photo album ensures participants can easily access event pictures featuring them, preserving their special moments.A real-time chat and query system allows attendees to communicate directly with organizers for updates, clarifications, and networking opportunities. The platform also includes event recommendations, helping students find relevant symposiums, hackathons, and meetups based on their interests.For organizers, Namma Chance offers an efficient ticketing system for both free and paid events, along with data analytics tools to track engagement, optimize planning, and improve future events.By combining affordability, ease of use, and advanced technology, Namma Chance transforms how students experience and manage events, making every moment connected, hassle-free, and unforgettable.

Title: Autonomous Car Driving System Using CNN in a Simulator.

Description:

This project implements an autonomous car driving system using Convolutional Neural Networks (CNNs) in a simulated environment. The model is trained to navigate roads, detect obstacles, and make driving decisions based on real-time visual input from the simulator.Using deep learning and computer vision, the system processes images from the simulation, extracts road features, and predicts steering angles and acceleration values. The CNN model learns driving patterns from human-driven data and adapts to various road conditions.Key features include lane detection, obstacle avoidance, and adaptive speed control, making it a foundational step towards real-world self-driving applications. This project provides insights into autonomous navigation and deep learning-based decision-making in dynamic environments.

C. Instructional materials

1. Data Science and Big Data Analytics Material
2. Cisco-Networking learning manuals
3. Study Materials-Available in Websites
4. Lab Manuals-All Curriculum Labs-Available in Websites

D Working models/charts/monograms etc.

Sl.No	Lab Chart	Faculty Name	Topic
1	Object Oriented Software Engineering	Mrs S. Mary Diana	Automated Passport Issuing system
2	Theory of computation	Mr D. Jeba Kingsley	Turing Machine
3	Embedded System & Iot	Mrs N. Vinodha	IoT based Gas Leakage Detector
4	Devops	Mrs D. Sylvia Sharon	Devops Architecture
5	UI/UX	Mr D. Jeba Kingsley	Core Stages of Design Thinking
6	Digital Principles & Computer Organization	Mrs N. Vinodha	Logic Gates
7	Web Essentials	Mrs K. Divya	Web Server
8	Cloud Computing	Mrs J. Jenifer	Cloud Storage Management
9	Cryptocurrency and Blockchain Technology	Mrs M. Maheswari	Conensus Mechanism
10	Network Security	Mrs V. Nageswari	Firewall

5.7.4 Consultancy(from Industry) (5) Institute Marks : 5.00

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount
Robotic Humanoids: Bridging Technology and Human Interaction	3 Years	AI Robo infinity Pvt.Ltd	9750000.00
			Total Amount(X): 9750000.00

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount
GENERATIVE AI AND ITS APPLICATIONS	5 days	AICTE Training and Learning (ATAL)	500000.00
			Total Amount(Y): 500000.00

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount

Cumulative Amount(X + Y + Z) =

5.8 Faculty Performance Appraisal and Development System (FPADS) (30) Total Marks 30.00

Institute Marks : 30.00

Faculty Performance Appraisal and Development System (FPADS)

Faculty members at DMI college undergo an annual appraisal based on their contributions to themselves and the institution. The evaluation uses a well-defined system including self-appraisal forms. Contribution of faculty members towards the publishing papers in reputed journals, patent, book chapters etc are evaluated.This process motivates faculty to enhance their professional development and improve overall educational quality. It also serves as a basis for merit-based salary increases, enabling financial growth.

The objectives of Faculty Performance Appraisal Development System:

1. To Assess and promote excellence in the teaching/learning process.
2. To Meet the educational needs of students and community by continually monitoring instructional performance.
3. To provide a constructive framework for evaluating faculty performance by identifying areas of strength and areas for improvement in classroom instruction.
4. To Provide a basis for professional growth and development.

A. A well-defined performance appraisal and development system instituted for all the assessment years

The faculty performance evaluation process encompasses four essential components to assess academic staff comprehensively. Academic Performance forms the foundation, measuring mastery of subject knowledge, incorporating valuable student feedback, and analyzing university results. Research-Based Performance validates scholarly contributions through publications, guidance of projects, and active involvement in research activities. The Development Activities component evaluates professional growth through innovative teaching methodologies, leadership in departmental events, and pursuit of advanced qualifications. Experience serves as a crucial fourth dimension in the assessment matrix.

Faculty members compile these elements into a detailed Self-Assessment Report, which undergoes thorough review by the Head of Department. This evaluation determines whether predetermined targets have been achieved. Upon meeting these objectives, faculty members receive formal appreciation acknowledging their accomplishments. In cases where targets are not fully met, constructive suggestions for improvement are provided to support professional development and enhance future performance. This systematic evaluation framework ensures balanced assessment of teaching excellence, research contributions, and professional development while fostering continuous improvement within the academic environment.

This approach maintains high standards through clear metrics and supportive feedback mechanisms, ultimately strengthening both individual faculty performance and institutional quality. The structured evaluation creates opportunities for recognition while establishing clear pathways for professional advancement and academic excellence.

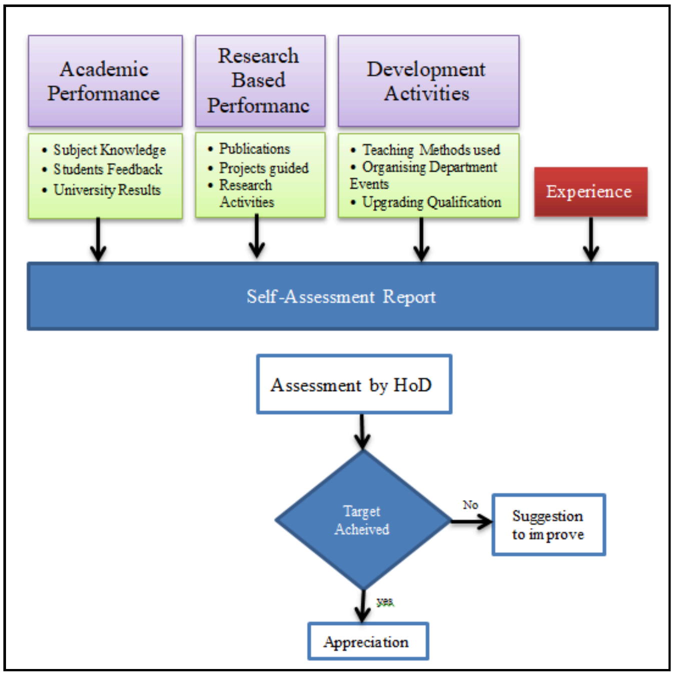


Fig 5.6a - Faculty appraisal form

B. Its implementation and effectiveness

At semesters end, faculty submit self-appraisal forms reflecting their yearly performance, endorsed by their HOD. An expert committee, comprising the Correspondent, Administrator, Principal, and HOD, evaluates these forms. This assessment determines potential promotions to the next level, providing a structured approach to faculty career advancement based on performance.

The evaluation metrics is based on four main parameters that consist of

1. **Academic Performance Assessment**

   The academic performance assessment is based on the result produced by the faculty member on the subject handled in a particular year and also based on the FDPs attended and membership of the professional bodies.

2. **Institutional development and Academic Leadership**

   The research-based performance assessment is evaluated based on the faculty members contributions to research, including the number of research publications in indexed journals, successful completion of funded projects, patents filed or granted, and participation in research collaborations. It also considers involvement in organizing or attending research-related conferences, workshops, and memberships in research-focused professional organizations. The faculty involved is awarded with appropriate amount as per the policy decided at the institution level.

3. **Assessment by HoD for staff**

   The HoD conducts a comprehensive year-long evaluation of staff, assessing their discipline, teamwork, punctuality, dedication to student and department development, and initiative, to provide a thorough analysis of each faculty members performance and contributions.

4. **Research/Publication/Project**

The publication of papers in national and international journals and conferences, conferences or workshop organized , sponsored projects and consultancy projects,books, book chapters published ,research guidance are the contributions for the self appraisal of the individual faculty member.

Basis of reward / corrective measures, if any

A grading system is followed to measure the quality of teaching process. Grading System is classified into

- Very Poor
- Poor
- Satisfactory
- Good
- Very Good

If the grade secured by the faculty is either poor or satisfactory corrective action (Counselling to the faculty members) will be initiated by the HOD and suggestions will be given to the respective faculty members by the Principal to improve the quality for self-appraisal.

Execution of feedback process

1. Faculty not handling subjects for the respective class will be allocated for collecting feedback from the students.
2. Entire feedback processes is monitored by course feedback coordinator.

Indices (grading) used for measuring quality of teaching and learning

1. The feedback questionnaire contains 20 questions with 5 point scale to measure faculty performance.
2. The weighted average of the student's response is calculated and consolidated.
3. The performance based on feedback is categorized into
    - Category I (above 90%) - Excellent
    - Category II (70% - 90%) – Good
    - Category III (below 70%) – Suggestion for improvement

Basis of reward / corrective measures

Category	Indices	Remarks
I	Above 90%	Appreciation
II	70%-90%	Recommended for FDP, Workshop, Conference
III	Below 70%	Faculty has panel Discussion with Principal/HOD

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

Total Marks 10.00

Institute Marks : 10.00

Sl. No.	Name of the Adjunt Faculty	Course Name	Duration of the Course	Academic Year
1	Mr.ISRAVEL RAJ, Product Designer, ZOHO Corporation Ptd	UI and UX Design	50 hours	2024-25

6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 80.00

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

Total Marks 30.00

Institute Marks : 30.00

Sr. No	Name of the Laboratory	Number of students per set up(Batch Size)	Name of the Important Equipment	Weekly utilization status(all the courses for which the lab is utilized)	Technical Manpower Support		
					Name of the Technical staff	Designation	Qualification
1	COMPUTER LAB-8 (MBF08)	30	HP Compaq 8100 SFF - i3 processor – 12 Wipro(Reassembled) - i3 4th gen processor – 20 Wipro(Reassembled) – i5 4th gen processor – 1 HP 7400- Dual core - 1	24hrs	Mr.Abishek Rosario	Lab Instructor	B.Tech
2	COMPUTER LAB-03(MBG01)	30	HP Compaq 8100 SFF - i5 processor – 24 HP Compaq 8100 SFF – i3 Processor – 6 HCL – C2D – 5 HP 7400- Dual core - 1	24hrs	Mr.Abishek Rosario	Lab Instructor	B.Tech
3	COMPUTER LAB-8 (MBF10)	30	Lenovo Think center - i5 processor – 29 HP Compaq 7400 SFF – Core2duo Processor -1	24hrs	Ms.Eswari.S	Lab Instructor	B.E
4	COMPUTER LAB-04(MBGO2)	30	Dell Optiplex 7040 - i5 6th gen processor – 28 Wipro Reassembled – i5 7th Gen Processor with 16 GB DDR 4 RAM – 3 Dell OPtiplex 755- C2D – 1 Dell OPtiplex 780- C2D – 1	24hrs	Ms.Eswari.S	Lab Instructor	B.E
5	Digital Lab	30	IC Trainer kit, 8086,8051 kit	12hrs	Ms.Kulanthai Jency	Lab Instructor	B.E

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

Total Marks 25.00

Institute Marks : 25.00

Sr. No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	DELL-EMC	Centre of Excellence	Enhance skills through comprehensive industrial training.	Students	Big Data Analytics	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PSO1,PSO2,PSO3
2	CISCO NETWORK	Centre of Excellence	Enhance skills through comprehensive industrial training.	Students	Networking	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PSO1,PSO2,PSO3
3	Internet Facility	Ethernet/WiFi	Providing High Speed connectivity	Students and Faculty members	Projects and Seminars	PO5,PO6, PO7
4	VM Ware Workstation	Enables to set up virtual machines on a single physical machine	Enhance skills through comprehensive industrial training.	Students	Students can learn to use VM Ware workstation and big data tools	PO1,PO2,PO3,PO5,PO9,PO11,PO12,PSO1,PSO2,PSO3
5	R-Studio	Open Source integrated development environment for R	Enhance skills through comprehensive industrial training.	Students	R-Studio package is useful to those who desire to do Programming In R language	PO1,PO2,PO3,PO5,PO9,PO11,PO12,PSO1,PSO2,PSO3
6	Weka Tool	Open-Source integrated development environmentfor data mining	Enhance skills through comprehensive industrial training.	Students	Weka package is useful to those who desire to do analysis in data mining and extraction and data processing	PO1,PO2,PO3,PO5,PO9,PO11,PO12,PSO1,PSO2,PSO3
7	Arduino	Centre of Excellence	Enhance skills through comprehensive industrial training.	Students	Open-source electronic prototyping platform enables Students to create interactive electronic objects	PO1,PO2,PO3,PO5,PO9,PO11,PO12,PSO1,PSO2,PSO3
8	Communication Lab	Communication lab develops a habit Of listening and speaking with accurate pronunciation among the students. It includes English courses, English listening audio, English language studies and also English comprehension	Enhance skills through comprehensive industrial training.	Students	Benefits of testing the four skills (reading, listening, writing and speaking) When we say that someone 'speaks' a language fluently, we usually mean that they have a high level in all four skills – listening, speaking, reading and writing	PO1,PO2,PO3,PO5 PO9,PO11 ,PO12,PSO1,PSO2,PSO3
9	Digital Library	Provide open access to all the book available world wide	Enhance skills through comprehensive industrial training.	Students and Faculty members	Digital libraries also offer a variety of search and sorting features, as well as social media- like features that can connect Users with others to discuss topics	PO1,PO2,PO3,PO5,PO9,PO11,PO12,PSO1,PSO2,PSO3

6.3 Laboratories: Maintenance and overall ambiance (10) Total Marks 10.00

Institute Marks : 10.00

6.3 - Laboratories: Maintenance and overall ambiance

- The maintenance of computer lab is taken care of by laboratory In-charge with Laboratory Assistant and the system administrators take care of the repairs and maintenance of all computers.
- Stock register is maintained and updated regularly.
- Student entry register is maintained.
- Stock verification and inspection is carried out by the department at the end of the Academic Year.
- Inter-institute stock audit is carried out regularly.
- Hardware maintenance is done by third party.
- All out dated and under configured computers are disposed by standard procedure.
- Additional requirements, if needed are processed through Governing body as per the proposal raised by the Head of Department during the budget proposal.
- Laboratory facilities are utilized by the students for their project work.

Laboratory Ambience and Design Overview

- Physical Infrastructure:
  - Spacious and airy laboratory environments
  - Ergonomically designed to optimize teaching-learning processes
  - Single entry and exit point strategically located along the central corridor
- Workspace Characteristics:
  - Well-maintained working tables and chairs/stools
  - Designed for maximum student comfort and productivity
  - Furniture consistently kept in excellent condition
- Environmental Control:
  - Presence of good AC to protect the computers.
  - Ambient lighting provided by fluorescent tubes
  - Adjustable window curtains to manage visibility and natural light
- Informational and Inspirational Elements:
  - Strategically placed display boards featuring:
    - Quotes from renowned personalities
    - Relevant technical information
  - Enhancing learning environments intellectual stimulation
- Cleanliness and Maintenance:
  - Daily cleaning by dedicated housekeeping staff
  - Laboratories consistently maintained in pristine condition
  - Comprehensive housekeeping timetable prominently displayed
  - Ensures a hygienic and professional learning atmosphere
- Overall Assessment:
  - Exceptional laboratory ambience
  - High-quality maintenance standards
  - Conducive environment supporting effective educational experiences

Table 6.1 shows the Dos and Donts displayed in the laboratory

Table 6.1. Dos and Donts displayed in the laboratory.

Do's	Don't's
• Know the location of fire extinguisher and first aid box and how to use them in case of emergency. • Read and understand how to carry out an activity thoroughly before coming to the laboratory. • Report fires or accidents immediately. • Report any broken plugs or exposed electical wires immediately. • Turn off the machine when it is not in use. • Always maintain an extra copy of all your important data.	• Do not eat or drink in the laboratory. • Avoid stepping on electrical wires or any other computer cables. • Do not insert metal objects such as clips, pins,needles into the computer casings. • They may cause fire. • Do not remove anything from the computer laboratory without permission. • Do not touch, connect or disconnect any plug or cable without permission. • Do not run inside the lab. • Donot personalise the computers, for exampe installing screen savers, chaning the desktop background ot changing the audio and video settings.

6.4 Project laboratories (5) Total Marks 5.00

Institute Marks : 5.00

Every final year student undertakes project which is spread over a period of one semester. The Student selects a topic of his/her interest and then performs literature survey, formulates the Problem formally and then implements it. At the end of semester a report is submitted by the students. Progress is continuously monitored by supervisor and an advisory committee. Midterm evaluation is done based on presentation and midterm report submission. Final evaluation is based on presentation, report submitted examination and demonstration. The ethical values are imbibed through proper referencing. The project is evaluated by Project Coordination committee which consists of a chairman's nominee (subject expert within the department), supervisor and an expert from outside the college apart from B.E project coordinator. All the POs and PSO's are thus satisfied.

A list of good and average projects is given below:

Step by step procedure for team and guide allotment:

- Project team size minimum of 2 and should not exceed 4.
- Project coordinator collects the teams ideas and domains
- Department will allot the guides based on their domain specializations.
- Regularly conducting 4 reviews to assess the projects with panel members
- Students are insisted to do only in-house or Industry projects.
- Separate lab is allotted for implementing students' project.
- Project lab is available for students with fast internet connection
- There will be one PC allotted for one Batch.
- Students can utilize the project lab three days in a week.
- This lab is equipped with latest networking related devices.

Facilities and Utilization for Project

This project lab focuses on developing and nurturing new ideas in the field of Information Technology. The lab is mainly intended to develop projects of final year students for their experimentation. Every final year student undertakes project which is spread over a period of one semester by using this lab.

PROJECT LAB FACILITIES

Hardware and software details of Project Lab

Hardware Details	Software Details
HCL - core2duo - 26 Wipro – C2D - 1 Dell optiplex755 - dualcore – 2 Dell optiplex780 - dualcore - 2 HP Compaq 7400 - dualcore – 3 Zebronic – P4 – 1 ivalue – C2D - 1	Java VisualStudio Pyton Turbo C Blender Open CV TensorFlow XGBoost scikit-learn weka

Additional Facilities Available

S. No.	Facility Name	Details
1.	Online Skill Development System	Using Moodle Server
2.	NPTEL Access Facility	NPTEL Server
3.	Smart class facility	Fully equipped Smart Class room with LCD projector and internet Facility
4.	CISCO Network Academy	Cisco Network Devices
5.	Multimedia Facility	Computer Lab
6.	Common Internet Facility	40 Mbps Wired and Wi-Fi Network

6.5 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	SERVER ROOM	GENERAL RULES OF CONDUCT IN LABORATORIES ARE DISPLAYED. SPECIFIC SAFETY RULES FOR STUDENTS DISPLAYED PROPER EB LINES BOARDS PROPER NETWORKING RACKS CYBEROAM FIREWALL SYSTEM USE OF CELL PHONES IS NOT ALLOWED
2	COMPUTER LAB-8 (MBF08)	GENERAL RULES OF CONDUCT IN LABORATORIES ARE DISPLAYED. SPECIFIC SAFETY RULES FOR STUDENTS DISPLAYED. FIRST AID BOX, FIRE EXTINGUISHER ARE KEPT IN THE LABORATORY. WELL TRAINED TECHNICAL SUPPORTING STAFF. AVOIDING THE USE OF DAMAGED EQUIPMENTS AND PROVIDES NEEDFUL EQUIPMENTS AND COMPONENTS. PERIODICAL SERVICING OF THE LAB EQUIPMENTS. MAINTAIN A CLEAN AND ORGANIZED LABORATORY, AVOIDING THE USE OF CELL PHONES. APPROPRIATE STORAGE AREAS
3	COMPUTER LAB-03(MBG01)	GENERAL RULES OF CONDUCT IN LABORATORIES ARE DISPLAYED. SPECIFIC SAFETY RULES FOR STUDENTS DISPLAYED. FIRST AID BOX, FIRE EXTINGUISHER IS KEPT IN THE LABORATORY. WELL TRAINED TECHNICAL SUPPORTING STAFF. AVOIDING THE USE OF DAMAGED EQUIPMENTS AND PROVIDES NEEDFUL EQUIPMENTS AND COMPONENTS. PERIODICAL SERVICING OF THE LAB EQUIPMENTS. MAINTAIN A CLEAN AND ORGANIZED LABORATORY, AVOIDING THE USE OF CELL PHONES. APPROPRIATE STORAGE AREAS
4	COMPUTER LAB-04(MBGO2)	GENERAL RULES OF CONDUCT IN LABORATORIES ARE DISPLAYED. SPECIFIC SAFETY RULES FOR STUDENTS DISPLAYED. FIRST AID BOX, FIRE EXTINGUISHER IS KEPT IN THE LABORATORY. WELL TRAINED TECHNICAL SUPPORTING STAFF. AVOIDING THE USE OF DAMAGED EQUIPMENTS AND PROVIDES NEEDFUL EQUIPMENTS AND COMPONENTS. PERIODICAL SERVICING OF THE LAB EQUIPMENTS. MAINTAIN A CLEAN AND ORGANIZED LABORATORY, AVOIDING THE USE OF CELL PHONES. APPROPRIATE STORAGE AREAS
5	Digital Lab	GENERAL RULES OF CONDUCT IN LABORATORIES ARE DISPLAYED. SPECIFIC SAFETY RULES FOR STUDENTS DISPLAYED. FIRST AID BOX, FIRE EXTINGUISHER IS KEPT IN THE LABORATORY. WELL TRAINED TECHNICAL SUPPORTING STAFF. AVOIDING THE USE OF DAMAGED EQUIPMENTS AND PROVIDES NEEDFUL EQUIPMENTS AND COMPONENTS. PERIODICAL SERVICING OF THE LAB EQUIPMENTS. MAINTAIN A CLEAN AND ORGANIZED LABORATORY, AVOIDING THE USE OF CELL PHONES. APPROPRIATE STORAGE AREAS

7 CONTINUOUS IMPROVEMENT (50)

Total Marks 50.00

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

Total Marks 20.00

Institute Marks : 20.00

POs Attainment Levels and Actions for Improvement- (2023-24)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.5	2.62	Target achieved
Action1: ICT enabled teaching methodologies are followed. Action 2: Webinar / Expert lecture on latest Technology to enhance the engineering knowledge are planned.			
PO 2 : Problem Analysis			
PO 2	2.5	2.55	Target achieved
Action1: Tutorial hours are utilized to solve problematic questions by giving extra exercises. Action2: Students are motivated to pay attention on video lectures provided from NPTEL, YouTube etc..			
PO 3 : Design/development of Solutions			
PO 3	2.5	2.61	Target achieved
Action1: Additional experiments are given to improve the practical knowledge of the students. Action 2: Students were encouraged to do industrial training, internship and participate in technical competitions, coding contests to enhance the ability to identify and formulate the complex engineering problem.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	2.5	2.50	Target achieved
Action 1: Students involved in Projects and Mini projects to develop their skills to investigate the complex engineering problems. Action 2: Students are encouraged to participate in National / international conferences to promote research culture among students			
PO 5 : Modern Tool Usage			
PO 5	2.5	2.83	Target achieved
Action1: Students were insisted to do projects using latest tools. Action2: Workshops are organized to get hands on expertise in the latest tools.			
PO 6 : The Engineer and Society			
PO 6	2.5	2.57	Target achieved
Action 1: Students have to be exposed to various professional engineering practices followed in the industries through industrial visits, internship and implant training. Action 2: Students are encouraged to carry out inter domain projects so that they would realize the importance of a project involving society, safety and health,			
PO 7 : Environment and Sustainability			
PO 7	2.5	2.79	Target achieved
Action1: Students are insisted to attend various internship programs and career guidance program to create the awareness about the sustainable engineering developments. Action2: Environmental Awareness event like No to plastic, Tree sapling, food habits were organized.			
PO 8 : Ethics			
PO 8	2.5	2.75	Target achieved
Action1: Inspirational programs are conducted periodically. Action2: Guest lectures on personality development to shape the students in the above aspects.			
PO 9 : Individual and Team Work			
PO 9	2.5	2.67	Target achieved
Action 1: Students are grouped for Project expos, competitions conducted in various colleges to work as a team. Action 4: Students are encouraged to work as team and individual in Mini project and Projects.			
PO 10 : Communication			
PO 10	2.5	2.78	Target achieved
Action 1: To enhance the employability skills of the students, training program will be conducted on the topics: how to face the interview, career development. Action 2: Language labs are provided to improve their communication and vocabulary skills.			
PO 11 : Project Management and Finance			
PO 11	2.5	2.79	Target achieved
Action1: Project management related electives are taken for understanding the engineering and management principles. Action 3: Students are encouraged to develop project in a team to enhance their project management skills and participate in various Technical Events related to project.			
PO 12 : Life-long Learning			
PO 12	2.5	2.72	Target achieved
Action 1: Library hours are allotted to encourage reading skills regarding industrial applications. Action 2: Students are encouraged to study more on subjects useful after their studies like Software Engineering, Software Project Management and Software testing.			

PSOs Attainment Levels and Actions for Improvement- (2023-24)

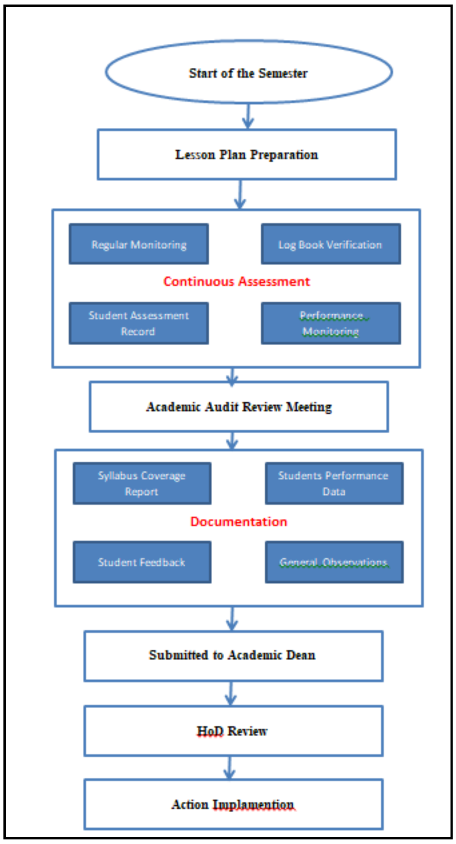
PSOs	Target Level	Attainment Level	Observations
PSO 1 : Analytical Thinking: Identify, formulate and solve engineering problems by applying mathematical foundations and algorithmic principles in IT environment to meet challenges.			
PSO 1	2.5	2.54	Target achieved
Action 1: Coding practice sessions and hackathons are conducted to enhance problem-solving skills and improve proficiency in various programming languages. Action 2: Students are encouraged to work on real-time projects and contribute to open-source			
PSO 2 : Principles of Information Technology: Analyze, design and develop Software, Multimedia, Web Applications and Networking Technologies for an efficient design of Information based systems with high professional skills.			
PSO 2	2.5	2.52	Target achieved
Action 1: Hands-on workshops and training sessions on emerging technologies like AI, IoT, Cloud Computing, and Blockchain are conducted to equip students with industry-relevant skills. Action 2: Students are encouraged to develop and implement automation projects and business solutions through internships, case studies, and industry collaborations.			
PSO 3 : Engineering Ethics: Understand best practices, ethical standards and replicate the same for the industry, research and social needs.			
PSO 3	2.5	2.51	Target achieved
Action 1: Motivate students to publish research papers and participate in technical conferences Action 2: Organize seminars and hackathons on emerging computing technologies			

7.2 Academic Audit and actions taken thereof during the period of Assessment (10) Total Marks 10.00

Institute Marks : 10.00

Objective

To enhance the quality of academic processes and ensure continuous improvement in the teaching-learning process through rigorous academic audits. Regular follow-ups and reviews will ensure sustained quality in academic delivery and student outcomes.



1. Academic Audit Process

The academic audit at DMI College of Engineering is conducted to evaluate the following aspects:

The academic audits for the years 2022-2025 focused on:

Reviewing curriculum implementation and its alignment with POs (Program Outcomes) and PSOs (Program Specific Outcomes).

Evaluating faculty performance in teaching, research, and student mentoring.

Assessing the adequacy of infrastructure and learning resources.

Analyzing examination results and student progression.

Co-curricular and extracurricular activities supporting academic learning

Gathering feedback from students, alumni, and industry experts.

Faculty audit: The following are the records of the faculty members that are verified during the internal academic audits.

- Calendar of Events.
- Lesson Plan, Execution Plan.
- Syllabus, Attendance Registers.
- Individual Time Table.
- IA Question Paper, Scheme of Evaluation and Assignment Questions.
- Model Question Papers, Previous University Question Papers.
- Lab Records, Lab Manuals, Ledger
- Course File
- Personal File
- Remedial and Tutorial Class Records.
- Result Analysis
- Counseling and Mentoring Records.
- Additional Resources to Students (Notes, PPT, Etc.)
- Co-Curricular Activities: Seminar/Conference/Workshop/Guest Lecture Conducted And Attended.
- Industrial Visits, Faculty Achievements: Paper publications, Books etc.
- Feedback mechanism for assessing the Teaching-Learning Process.
- Audit committee submits the report of audit to the IQAC Convener and also shares it with the concerned Head of the Department.
- IQAC Convener and members do the analysis of the report and initiates the corrective measures as necessary with the department.
- The Head of the department discuss the audit findings with the faculty and prepares plan of action in the DAC meeting for addressing any concern(s) identified by the auditor.
- Department Submits the Action taken report with respect to audit report to IQAC.

Corrective Measures for the improvement of academic performance:

Feedback from students – Course Exit Survey: A questionnaire about the course is prepared by the course coordinator and the program - coordinator for the students. This serves as a feedback at end of the semester to gauge the degree of attainment of POs and PSOs.

Feedback from parents: The Program coordinator will collect the feedback from parents about their experience and their wards opinion on the program. This activity is carried out once in every semester for the betterment of the system.

Feedback from the academic/industry experts: Curriculum reviews by Industry/Academic experts provide a broad-based internal and external feedback regarding the relevance and organization of a program's curriculum. Their feedback serves as an evidence for assessing significant changes (individual course competencies) required within a program when the change is inevitable.

Feedback from Alumni: A questionnaire is prepared by the program and course coordinator and is given to the alumni. It will be done once in every year on August 15 to gauge the degree of attainment of POs and PSOs. Open ended questions/experiments in the lab Open ended questions are designed for which students formulate meaningful solutions using subject knowledge. These open-ended questions tend to be more objective and less leading than closed-ended questions.

Audit Committee Composition:

Internal Faculty Members: Senior professors from respective departments.

External Members: Experts from academia and industry.

Administrative Representatives: Deans and Heads of Departments.

2. Key Observations from the Audit

2.1 Strengths Identified

Effective implementation of Outcome-Based Education (OBE).

Well-maintained student performance records.

Adequate laboratory facilities and usage.

Regular conduction of internal assessments.

Active involvement of students in co-curricular activities.

2.2 Areas of Concern

Gaps in achieving program-specific outcomes (PSOs).

Inconsistency in student feedback mechanism.

Limited industry interaction and internships.

Irregular mentoring sessions for students.

Lack of structured documentation of remedial classes.

2022-2023 Academic Year

Strengths:

Introduction of new elective courses aligned with industry trends.

Increased participation in technical events and hackathons.

Areas for Improvement:

Insufficient practical exposure for certain core subjects.

Delays in implementing feedback from students.

2023-2024 Academic Year

Strengths:

Enhanced mentoring system with improved student-faculty interaction.

Increased collaborations with industries for internships and training.

Areas for Improvement:

Lack of comprehensive alumni engagement.

Need for better integration of co-curricular activities into the academic framework.

2024-2025 Academic Year

Strengths:

Higher student placement rates due to improved soft-skills training.

Better infrastructure utilization, especially in laboratories.

Areas for Improvement:

Need for more interdisciplinary projects.

Insufficient emphasis on entrepreneurship development

3. Action Taken

Based on the audit findings, the following actions were implemented:

Year	Observation	Action Taken	Impact

2022-2023	Insufficient practical exposure	Introduced additional lab sessions and real-time project-based learning.	Improved practical understanding among students.
	Gaps in achieving PSOs	Additional workshops and hands-on training sessions introduced.	Improvement in technical skills and employability.
2022-2023	Delays in implementing feedback	Established a dedicated committee to address student feedback promptly.	Faster resolution of academic and administrative concerns.
2023-2024	Lack of alumni engagement	Organized alumni meets and developed an online alumni portal for continuous interaction.	Improved alumni involvement in mentoring and placements.
	Documentation of remedial classes	Implemented a standardized format for recording and reporting remedial sessions.	Improved monitoring of academic support programs.
2023-2024	Integration of co-curricular activities	Mapped co-curricular activities to specific POs and made participation mandatory for certain credits.	Enhanced holistic development of students.
	Limited industry interaction	MOUs signed with three new industries; increased guest lectures and industrial visits.	Enhanced industry exposure for students
2024-2025	Need for interdisciplinary projects	Introduced collaborative projects between departments with dedicated funding.	Encouraged teamwork and cross-domain innovation among students.
2024-2025	Insufficient entrepreneurship development	Partnered with incubation centers and organized workshops on startups and innovation.	Increased student interest in entrepreneurship and innovation-based careers.

4. Outcome of Actions Taken

Improved alignment of PSOs with student performance.

Increased student satisfaction scores in annual feedback surveys.

Enhanced industry participation in placement activities.

Improved documentation and academic record-keeping practices.

2022-2023 Academic Year

Practical knowledge of students improved significantly.

Enhanced student satisfaction with quicker feedback implementation.

2023-2024 Academic Year

Alumni participation in placement and mentoring activities increased by 25%.

Students reported better academic engagement through co-curricular activities.

2024-2025 Academic Year

20% rise in interdisciplinary project submissions.

15% of students engaged in entrepreneurial activities or internships in start-ups.

5. Conclusion

The academic audits for 2022-2025 have strengthened the quality assurance mechanisms at DMI College of Engineering. The timely identification of challenges and implementation of corrective actions have significantly contributed to achieving the institutions academic and professional goals.

Future Focus Areas:

Regular monitoring of action plans to ensure long-term impact.

Further enhancement of research output and global collaborations.

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10) Total Marks 10.00

Institute Marks : 10.00

Improvement in Placement, Higher Studies and Entrepreneurship:

Item	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
Total No. of Final Year Students (N)	50	58	20
No. of students placed in companies or Government(x)	34	30	13
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	1	4	1
No. of students turned entrepreneur in engineering/technology (z)	1	1	2

Salary Package:

Year	Highest Package	Lowest Package	IT	NON-IT
2023-2024	Rs 8,60,000 per Annum	Rs 2,40,000 per Annum	33	20
2022-2023	Rs 5,00,000 per Annum	Rs 1,60,000 per Annum	25	38
2021-2022	Rs 6,50,000 per Annum	Rs 2,00,000 per Annum	20	19

LIST OF COMPANIES

S.NO	ACADEMIC YEAR	COMPANY NAME
1	2021-2022	AVA SOFTWARE PVT LTD
		THINK SYNQ CONSULTING
		INFINITI SOFTWARE
		CAMPUS CONNECT
		EXCELCOM
2	2022-2023	TCS
		BOTREE
		LEAD PRO
		JOY TECHNOLOGY
		AVASOFT
		THINKSYNQ
		GO DIGIT
		UNLIMITED SOLUTIONS
		TVM
		SUTHERLAND

3	2023-24	SKILL DUNIA
		FOXCONN TECHNOLOGY
		THINK SYNQ
		ACADEMOR
		KODNEST
		QSPIDER
		SALS EDUCATON ACADEMY
		M/S TECHNOLOGIES GLOBAL PVT LTD
		RINEX TECHNOLOGIES
		ANNULAR
		SMARTED

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

Total Marks 10.00

Institute Marks : 10.00

Item		2024-25	2023-24	2022-23
National Level Entrance Examination NA	No of students admitted	0	0	0
	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
State/ University/ Level Entrance Examination/ Others Single Window System	No of students admitted	40	55	57
	Opening Score/Rank	169	161	178
	Closing Score/Rank	82	88	62
Name of the Entrance Examination for Lateral Entry or lateral entry details Lateral Entry	No of students admitted	0	2	0
	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		63	62	60

8 FIRST YEAR ACADEMICS (50)

Total Marks 43.30

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

Tc

Institut

Please provide 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)
							CAY	CAYm1	CAYm2		
RAGHU Y	BADPR2839G	M.Sc. (Physics) and Ph.D.	24/03/2017	RADIATION PHYSICS	Professor	05/07/2023	100	100	0	Yes	Regular
SUBASHINI J	DGOPS0803Q	M.Sc. (Physics) and Ph.D.	31/03/2007	PHYSICS	Assistant Professor	12/07/2021	0	100	100	No	Regular
STELLA MARY	CHEPS9723B	M.Phil	30/05/2006	PHYSICS	Assistant Professor	20/07/2017	100	100	100	Yes	Regular
ANBARASAN '	CHNPA4232N	M.Sc. and Ph.D. (Chemistry)	16/05/2022	PHYSICAL CHEMISTRY	Assistant Professor	17/11/2021	100	100	100	Yes	Regular
AJITHA R	BBQPA2758D	M.SC. (Mathematics) and PhD	11/02/2023	GRAPH THEORY	Assistant Professor	14/07/2023	100	100	0	Yes	Regular
KAVITHA M	AMAPK5888Q	M.Phil	31/05/2006	MATHEMATICS	Associate Professor	15/04/2002	100	100	100	Yes	Regular
KIRUBHA G	GGSPK5810C	M.Phil	31/05/2015	FUZZY LOGICS	Assistant Professor	03/01/2022	0	100	100	No	Regular
SNEHA S	BRQPS7176H	M.Phil	31/05/2007	ALGEBRA	Assistant Professor	10/06/2019	0	50	100	No	Regular
NANDAGOPAL	AJXPN9655L	M.SC. (Mathematics) and PhD	23/08/2023	GRAPH THEORY	Assistant Professor	05/07/2023	0	50	0	No	Regular
JASMINE G	AUVPJ6612N	M.SC. (Mathematics) and PhD	03/11/2023	FRACTIONAL DIFFERENTIAL EQUATIONS	Assistant Professor	24/07/2023	0	50	0	No	Regular
HARIPRIYA R	AIRPH5830J	M.A and Ph.D	27/10/2022	ENGLISH LITERATURE	Assistant Professor	24/05/2023	100	100	0	Yes	Regular
THARANI K	BEWPT7079H	MA	31/05/2018	ENGLISH LITERATURE	Assistant Professor	11/04/2022	100	100	100	Yes	Regular
STEFFY TEEN	DULPS2462E	M.E/M.Tech	30/06/2013	GEOMATICS	Assistant Professor	10/06/2019	100	100	100	Yes	Regular
CHANDRAN G	ARPPC0884N	M.E/M.Tech	30/06/2010	POWER ELECTRONICS AND DRIVES	Assistant Professor	14/12/2018	100	100	100	Yes	Regular
KRISHNAMOO	CTHPK2110F	M.E/M.Tech	30/06/2013	ENGINEERING DESIGN	Assistant Professor	16/06/2016	50	50	50	Yes	Regular
VIJAYA G	BDXPV1664G	M.E/M.Tech	25/06/2013	POWER ELECTRONICS AND DRIVES	Assistant Professor	18/01/2019	100	100	100	Yes	Regular
SUDHA MERL	EDTPS9437R	M.E/M.Tech	30/06/2017	POWER ELECTRONICS AND DRIVES	Assistant Professor	02/02/2023	100	100	50	Yes	Regular
PRADEEP E M	DIFPP6722J	M.E/M.Tech	20/07/2015	MANUFACTURING ENGINEERING	Assistant Professor	30/11/2020	50	50	50	Yes	Regular
AMBROSE PR	AHZPP6467G	M.SC. (Mathematics) and PhD	21/10/2016	GRAPH THEORY	Associate Professor	26/03/2021	0	0	100	No	Regular
SATHIRAGAVA	GIGPS2307M	M.Phil	31/05/2012	GRAPH THEORY	Assistant Professor	20/08/2022	0	100	100	No	Regular
NIKITHA B	FXTPB7110P	MA	31/05/2019	ENGLISH LITERATURE	Assistant Professor	20/09/2021	0	0	100	No	Regular
JASWINI JANI	OHHPS3198R	M.Phil	15/07/2019	ENGLISH LITERATURE	Assistant Professor	20/09/2021	0	0	100	No	Regular
GEETHA V	ARQPG7248B	M.Phil	31/05/2015	ENGLISH LITERATURE	Assistant Professor	19/09/2022	0	0	50	No	Regular

CHITRADEVI S	AINPC0709R	M.Sc. and Ph.D. (Chemistry)	14/09/2014	ORGANIC CHEMISTRY	Professor	01/11/2023	100	100	0	Yes	Regular
VISHNUPRIYA	AECPV5768E	M.SC. (Mathematics) and PhD	05/01/2015	GRAPH LABELING	Associate Professor	19/02/2024	100	100	0	Yes	Regular
ANANTHARAM	ANZPA7425R	M.SC. (Mathematics) and PhD	21/03/2022	GRAPH THEORY	Assistant Professor	01/08/2024	100	0	0	Yes	Regular
STANISLAUS A	JDWPS8875P	M.A and Ph.D	14/10/2024	ENGLISH LANGUAGE TEACHING	Assistant Professor	29/01/2024	100	50	0	Yes	Regular
PREETHI VINI	CICPP2057A	M.E/M.Tech	28/06/2011	COMMUNICATION SYSTEM	Assistant Professor	05/02/2025	100	0	0	Yes	Regular
MONISHA V	BZSPV6413J	M.E/M.Tech	30/06/2021	WIRELESS TECHNOLOGY	Assistant Professor	03/10/2024	100	0	0	Yes	Regular
SYED FEROZI	DMGPS3202H	M.E/M.Tech	31/05/2011	FIBER OPTICS	Assistant Professor	26/06/2023	50	50	0	Yes	Regular
JEBARAJ G	BCLPJ7846R	M.E/M.Tech	15/05/2017	STRUCTURAL ENGINEERING	Assistant Professor	15/06/2017	100	100	100	Yes	Regular
KAMARAJ K S	GATPK0598G	M.Phil	31/05/2014	GRAPH THEORY	Assistant Professor	21/01/2019	100	100	100	Yes	Regular
ROSHINI L	HLPPR3469P	M.SC. (Mathematics) and PhD	04/01/2024	GRAPH THEORY	Assistant Professor	08/07/2024	100	0	0	Yes	Regular
EMMANUEL S	ABCPE2112Q	M.E/M.Tech	30/06/2007	MANUFACTURING TECHNOLOGY	Assistant Professor	02/01/2025	50	0	0	Yes	Regular
BABU J	BEIPB8517G	M.Sc. and Ph.D. (Chemistry)	16/05/2022	ORGANIC CHEMISTRY	Assistant Professor	03/09/2024	100	0	0	Yes	Regular
VIGNESH S	FCCPS2002F	M.E/M.Tech	30/09/2020	COMPUTER SCIENCE	Assistant Professor	15/12/2023	100	50	0	Yes	Regular
EDWARD JEYA	ABCPE8130C	M.Sc. and Ph.D. (Chemistry)	10/03/2022	PHYSICAL CHEMISTRY	Assistant Professor	14/09/2022	50	100	100	No	Regular
PETCHIAMMA	BCFPP8217G	M.Sc. and Ph.D. (Chemistry)	24/02/2020	INORGANIC CHEMISTRY	Assistant Professor	15/09/2022	100	100	100	Yes	Regular
SHEELA C	COIPC9609D	M.Phil	30/01/2003	GRAPH THEORY	Assistant Professor	09/05/2022	0	0	100	No	Regular
ALWIN STAR A	BONPA1632N	ME/M. Tech and PhD	30/03/2020	POWER SYSTEM	Assistant Professor	19/09/2023	0	100	0	No	Regular
EVANGELINE	EDPPK4636G	M.A and Ph.D	07/04/2016	TAMIL	Assistant Professor	20/11/2024	100	0	0	Yes	Regular
IMMACULATE	BWGPG4754E	M.Sc. (Physics) and Ph.D.	17/07/2017	PHYSICS INTERDISCIPLINARY	Professor	06/08/2001	100	100	100	Yes	Regular
KRISHNAMAL	BFYPJ8711H	M.E/M.Tech	30/06/2019	COMMUNICATION SYSTEM	Assistant Professor	14/08/2023	100	100	0	Yes	Regular

Year	Number Of Students(approved intake strength) N	Number of Faculty members(considering fractional load) F	FYSFR (N/F)	*Assessment= (5*20)/FYSFR(Limited to Max.5)
2022-23(CAYm2)	420	22	19	5
2023-24(CAYm1)	480	27	18	5
2024-25(CAY)	540	29	19	5
Average	480	26	18	5

8.2 Qualification of Faculty Teaching First Year Common Courses (5) Total Marks 2.67

Institute Marks : 2.67

Year	x (Number Of Regular Faculty with Ph.D)	y (Number Of Regular Faculty with Post graduate Qualification)	RF (Number Of Faculty Members required as per SFR of 20:1	Assessment Of Faculty Qualification [(5x + 3y) / RF]
2022-23	3	13	21	2.00
2023-24	8	13	24	3.00
2024-25	10	12	27	3.00

Average Assessment: 2.67

8.3 First Year Academic Performance (10) Total Marks 5.63

Institute Marks : 5.63

Academic Performance	2024-25	2023-24	2022-23
Mean of CGPA or mean percentage of all successful students(X)	5.84	5.99	5.07
Total Number of successful students(Y)	55.00	57.00	59.00
Total Number of students appeared in the examination(Z)	55.00	57.00	59.00
API [X*(Y/Z)]	5.84	5.99	5.07

Average API[(AP1+AP2+AP3)/3] : 5.63

Assessment [1.5 * Average API] : 5.63

8.4 Attainment of Course Outcomes of first year courses (10) Total Marks 10.00

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5) Institute Marks : 5.00

8.4.1. Quality of internal semester Question papers, Assignments and Evaluation:

Our college conducts two Internal Assessment Test (IAT-I & IAT-II) and Model Exam. IAT – I covers Unit-I & II. IAT – II covers Unit-III & IV. All the five units (Unit-I, II, III, IV, V) are covered in Model Exam Question paper. The internal test consists of 50 Marks with duration of 1.5 hours and Model Exam consists of 100 Marks with duration is 3 hours. The question paper are set to make the student to learn time management.

A. Process for Internal semester Question Paper Setting, Evaluation and effective process implementation: (5)

1. Internal semester Question Paper Setting:

- Question papers all prepared by the course in-charges.
- For each subjects, question bank is prepared.
- While setting the question paper all previous university exam papers are taken into consideration.
- According to level of toughness the questions are prepared (viz., analyzing the problems implementation of modern tools, formulating the problems etc), which is termed as Bloom's Taxonomy.
- The students are asked to prepare and submit unit wise assignments, prior to Model examinations. The assignment should contain Key points, Neat diagrams / circuit, Derivations and Tables or plots as expected in the answer scripts in university exams.
- Evaluated answer scripts are randomly selected and checked for the authenticated awarding of marks by the senior faculty members. Changes are made in the marks when there is a genuine claim.

2. Evaluation:

- The faculties after every internal assessment test they explain the solution of the questions in the class which will enable them to perform well in the final examination.
- For any genuine reasons, if a student was unable to perform well in the given three internal assessment tests, retest is given to students..
- Department exam Cell will conduct the exams and answer scripts are evaluated by the Concern subject In-charges.
- Department will consolidate the marks after two days of the exam.
- Department categorize the students such as Advance Learners, average and slow learners based on their marks.
- Special coaching classes are conducted for the students by the subject In-charges.

3. Student Performance Analysis:

Department categorize the students such as Advance Learners, average and slow learners based on their marks.

Students Level Analysis:

Level 1: Internal Assessment Test marks > 80 % = Advance Learners Students

- Mementos are distributed to motivate them to continue their Excellency in academics.
- Giving special coaching to achieve university ranks.

Level 2: Internal Assessment Test marks 50 % to 80 % = Average Students

- Student mentors follows their progress regularly advising students about attending classes, making up classes missed, and getting additional help
- Repeated University questions are given to make them to get more marks
- Taking necessary actions to promote them to the next level
- Concentrating on analytical papers
- Motivating them through Parent teachers Association
- Encourage them to implement the innovative ideas as the projects
- Encourage them to participate in various activities of the Department and also Colleges.

Level 3: Internal Assessment Test marks < 50 % = Slow Learners

- Concentrate on two marks questions
- Repeated University questions are given to make them pass.
- Special Coaching are given for all papers before the University exams
- Regularly Counseling them in all aspects
- Help them by conducting regular Coaching Classes to clear the papers
- Student mentors follows their progress regularly advising students about attending classes, making up classes missed, and getting additional help.
- Conduction of extra classes to those who failed in previous semester subjects.

B. Process to ensure questions from Outcomes/learning levels perspective: (5)

Each question is mapped with COs. Student who answered to particular question is taken into consideration and average of all students' marks is taken for CO-PO attainment. Knowledge levels and learning levels are incorporated in the question banks and internal exam questions, that ensures COs level and its accomplishment.

Assessment Process	Evaluation
Theory	
Class tests	Class testsareconductedeverydayduring1sthourfor25marks.

Continuous Assessment tests	Three continuous assessment tests will be conducted. The first two willbeconductedfor50marksforthedurationof1.30Hrscovering 4 units (2 units each). The last assessment will be a model exam for 100marks foradurationof3 Hrs with all 5-units.
End Semester Examination	Will be conducted as per Anna University schedule
Laboratory	
Model Exam	Lab model exam will be conducted after completion of all the experimentsfor100 marks for a duration of3 Hrs
End Semester Exam	Will be conducted as per Anna University schedule

Others	
Assignments	Three Assignment topics per subject will be given to students
Tutorials	The entire class will be divided into three batches where each batch will have 20 to 23students. A faculty will be allotted for each batch. Every week an hour will be conducted for tutorials wherein the Faculty will make the students solve more problems.

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

Institute Marks : 5.00

Assessment Tools

Assessment Tools are categorized into direct and indirect methods. The CO, PO and PSO attainment is calculated based on the assessment process through assessment tools. The direct assessment tools used to calculate the attainment of Course Outcomes are Internal Assessment Tests, Assignments and University Examination. 20% of weightage is given to Internal Assessment Tests and Assignments, 80% of weightage is given to University Examination. The indirect assessment tool used to calculate the attainment of Course end-survey. The Course End Survey consists of Questionnaires prepared with four scale range by focusing to evaluate the COs attainment of all courses in a semester.

Each CO is mapped with POs and the direct attainments of POs are calculated. The indirect assessment tools used to calculate the attainment of Program Outcomes are the Employer, Parent, Professional body activities and Graduate Exit Survey. For both PO and CO assessment, the weightage of direct assessment is 80% and indirect assessment is 20%.

Laboratory courses are assessed through the marks obtained by the students in the model examination, record book and university examination. The attainment levels for recording the attainment of Course Outcomes are defined based on the average performance of students in each subject.

B. The quality of assessment process and tools used:

All the Internal Assessmentmarks will be uploaded in Anna University web portal and the internal marks will be awarded purely based on their marks in the internal assessment and the assignments. Therefore students are expected to take the tests seriously and perform well in the tests & examination. Parents are requested to have a close watch on their ward’s performance.

Table 3.2 a - Assessment process – Tools used

Test	Portion/Unit	Evaluation period
Internal Assessment Test – I	40% / 1&2	Within 3-5 days after the last exam
Internal Assessment Test – II	40% / 3&4	
Model Exam	100% (All Units)	
Model Practical Exam	As per Syllabus	

Attainment level:
Attainment level 1: 60% of students scoring more than 60 marks.
Attainment level 2: 70% of students scoring more than 60 marks.
Attainment level 3: 80% of students scoring more than 60 marks.

SAMPLE DATA ACADEMIC YEAR 2023-2024

IT-23-24			Attainment level					Attained Y/N				
	CODE	SUBJECT	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
SEM -I	HS3152	Professional English I	2.84	2.85	2.82	2.96	2.96	Y	Y	Y	Y	Y
	MA3151	Matrices and Calculus	1.91	1.90	1.89	1.89	1.91	N	N	N	N	N
	PH3151	Engineering Physics	2.25	2.14	2.13	2.13	2.23	Y	Y	Y	Y	Y
	CY3151	Engineering Chemistry	2.35	2.35	2.34	2.36	2.45	Y	Y	Y	Y	Y
	GE3151	Problem Solving and Python Programming	1.77	1.78	1.90	2.05	2.10	N	N	N	Y	Y
	GE3152	Heritage of Tamils	2.96	2.90	2.93	2.83	2.96	Y	Y	Y	Y	Y
	BS3171	Physics and Chemistry Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	GE3171	Problem Solving and Python Programming Laboratory	2.7	2.7	2.8	2.8	3.0	Y	Y	Y	Y	Y
	GE3172	English Communication lab	3	3	3	3	3	Y	Y	Y	Y	Y
SEM-II	HS3252	Professional English - II	2.54	2.70	2.75	2.86	2.89	Y	Y	Y	Y	Y
	MA3251	Statistics & Numerical Methods	1.78	1.78	1.76	1.76	1.75	N	N	N	N	N
	PH3256	Physics for Information Science	2.06	2.34	2.45	2.67	2.55	Y	Y	Y	Y	Y
	BE3251	Basic Electrical & Electronics Engineering	1.84	1.89	1.90	1.94	1.91	N	N	N	N	N
	GE3251	Engineering Graphics	2.78	2.45	2.67	2.88	2.77	Y	Y	Y	Y	Y
	CS3251	Programming in C	2.45	2.45	2.25	2.25	2.57	Y	Y	Y	Y	Y
	GE3252	Tamils & Technology	2.92	2.90	2.78	2.89	2.96	Y	Y	Y	Y	Y
	GE3271	Engineering Practices Laboratory	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y
	CS3271	Programming in C Laboratory	2.92	2.90	2.92	3.00	3.00	Y	Y	Y	Y	Y
	GE3272	Communication Laboratory	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y
			2.53	2.53	2.54	2.59	2.63					

SAMPLE DATA ACADEMIC YEAR 2022-2023

IT-22-23	Attainment level	Attained Y/N

	CODE	SUBJECT	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
SEM -I	HS3152	Professional English I	2.86	2.61	2.81	2.63	2.93	Y	Y	Y	Y	Y
	MA3151	Matrices and Calculus	1.71	1.70	1.77	1.78	1.79	N	N	N	N	N
	PH3151	Engineering Physics	1.93	1.91	1.95	1.93	1.91	N	N	N	N	N
	CY3151	Engineering Chemistry	2.03	2.05	2.11	2.11	2.20	Y	Y	Y	Y	Y
	GE3151	Problem Solving and Python Programming	1.77	1.76	1.82	1.88	1.90	N	N	N	N	N
	GE3152	Heritage of Tamils	2.86	2.96	2.88	2.98	2.98	Y	Y	Y	Y	Y
	BS3171	Physics and Chemistry Laboratory	3	3	3	3	3	Y	Y	Y	Y	Y
	GE3171	Problem Solving and Python Programming Laboratory	2.5	2.5	2.6	2.6	2.7	Y	Y	Y	Y	Y
	GE3172	English Communication lab	3	3	3	3	3	Y	Y	Y	Y	Y
SEM-II	HS3252	Professional English - II	2.88	2.56	2.77	2.90	2.89	Y	Y	Y	Y	Y
	MA3251	Statistics & Numerical Methods	1.77	1.78	1.87	1.88	1.89	N	N	N	N	N
	PH3256	Physics for Information Science	1.78	1.78	1.88	1.87	1.89	N	N	N	N	N
	BE3251	Basic Electrical & Electronics Engineering	1.77	1.78	1.87	1.88	1.89	N	N	N	N	N
	GE3251	Engineering Graphics	2.60	2.78	2.88	2.78	2.89	Y	Y	Y	Y	Y
	CS3251	Programming in C	2.23	2.23	2.25	2.25	2.57	Y	Y	Y	Y	Y
	GE3252	Tamils & Technology	2.92	2.90	2.92	2.97	2.92	Y	Y	Y	Y	Y
	GE3271	Engineering Practices Laboratory	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y
	CS3271	Programming in C Laboratory	2.82	2.90	2.80	2.87	2.78	Y	Y	Y	Y	Y
	GE3272	Communication Laboratory	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y
			2.44	2.43	2.48	2.49	2.53					

SAMPLE DATA ACADEMIC YEAR 2021-2022

IT-21-22			Attainment level					Attained Y/N				
	CODE	SUBJECT	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
SEM -I	HS3152	Professional English I	2.89	2.88	2.91	2.96	2.98	Y	Y	Y	Y	Y
	MA3151	Matrices and Calculus	1.76	1.87	1.89	1.88	1.89	N	N	N	N	N
	PH3151	Engineering Physics	1.93	1.93	1.95	1.95	1.91	N	N	N	N	N
	CY3151	Engineering Chemistry	2.11	2.11	2.12	2.12	2.06	Y	Y	Y	Y	Y
	GE3151	Problem Solving and Python Programming	1.81	1.81	1.78	1.78	1.76	N	N	N	N	N
	GE3152	Heritage of Tamils	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y
	BS3171	Physics and Chemistry Laboratory	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y
	GE3171	Problem Solving and Python Programming Laboratory	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y
	GE3172	English Communication lab	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y
SEM-II	HS3252	Professional English - II	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y
	MA3251	Statistics & Numerical Methods	1.77	1.78	1.89	1.90	1.91	N	N	N	N	N
	PH3256	Physics for Information Science	1.75	1.75	1.73	1.73	1.72	N	N	N	N	N
	BE3251	Basic Electrical & Electronics Engineering	1.77	1.78	1.76	1.79	1.80	N	N	N	N	N
	GE3251	Engineering Graphics	2.71	2.71	2.73	2.73	2.70	Y	Y	Y	Y	Y
	CS3251	Programming in C	2.10	2.10	2.14	2.14	2.09	Y	Y	Y	Y	Y
	GE3252	Tamils & Technology	2.96	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y
	GE3271	Engineering Practices Laboratory	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y
	CS3271	Programming in C Laboratory	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y
	GE3272	Communication Laboratory	3.00	3.00	3.00	3.00	3.00	Y	Y	Y	Y	Y
			2.50	2.51	2.52	2.53	2.52					

8.5 Attainment of Program Outcomes from first year courses (20) Total Marks 20.00

8.5.1 Indicate results of evaluation of ezch relevant PO and/ or PSO, if applicable (15) Institute Marks : 15.00

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	0	0	0	0	0	0	0	2	2	3	0	1
C102	3	3	3	2	0	0	0	0	2	3	0	1
C103	3	2	2	0	0	0	0	0	0	0	0	0
C104	3	2	2	0	0	0	0	0	0	0	0	0
C105	3	3	3	0	0	0	0	0	0	0	0	0
C106	3	3	3	0	2	0	0	1	2	2	0	2
C107	3	3	3	0	2	0	0	1	2	2	0	2
C108	3	3	3	0	0	0	0	1	2	2	0	0
C109	0	0	0	0	0	0	0	2	2	3	0	1
C110	3	3	3	2	0	0	0	0	2	0	0	0
C111	1	1	1	3	2	2	0	0	0	0	0	0
C112	3	3	3	0	0	0	0	0	0	0	0	0
C113	3	3	3	0	3	0	0	0	0	2	1	2
C114	3	3	3	0	0	0	0	2	2	2	0	2
C115	3	3	3	1	1	2	2	2	2	2	0	2
C116	3	3	3	0	0	0	0	2	2	2	0	2
C117	3	3	3	0	2	0	0	0	0	2	2	2

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.87	2.73	2.73	2	2	2	2	1.62	2	2.27	1.5	1.7
CO Attainment	2.87	2.73	2.73	2	2	2	2	1.62	2	2.27	1.5	1.7

PSOs Attainment:

Course	PSO1	PSO2	PSO3
C101	0	0	0
C102	3	1	0
C103	0	0	0
C104	0	0	0
C105	0	0	0
C106	0	0	0
C107	1	2	3
C108	0	0	0
C109	0	0	0
C110	3	1	0
C111	0	0	0
C112	1	0	0
C113	0	0	0
C114	1	2	3
C115	0	0	0
C116	1	2	3
C117	1	2	3
PSO Attainment	1.57	1.67	3

PSO Attainment Level

Course	PSO1	PSO2	PSO3
Direct Attainment	1.57	1.67	3

8.5.2 Actions taken based on the results of evaluation of relevant POs (5) Institute Marks : 5.00

POs Attainment Levels and Actions for Improvement- (2023-24)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.5	2.62	Target has been met.
Action 1: Assignments, tutorials and case studies are given in all the basic subjects to acquire basic knowledge on Engineering fundamentals and to improve the attainment level. Action 2: Guest lecture is conducted in basic engineering subjects to enhance the knowledge of Students.			
PO 2 : Problem Analysis			
PO 2	2.5	2.55	Target has been met
Action 1: Tutorials and assignments for analytical subjects are given. Action 2: Additional experiments are conducted to analyse real world problem and find solutions. Action 3: Unit wise important problems are solved to improve the problem solving capabilities. Action 4: Aptitude classes are conducted to improve the analytical skills.			
PO 3 : Design/development of Solutions			
PO 3	2.5	2.61	Target has been met
Action 1: Special Courses in programming languages are conducted to improve the skills of developing computer based solution. Action 2: Industry personnel to be invited to deliver lectures in the area of design and Computer based solutions. Action 3: Extra laboratory experiments are conducted to improve the attainment level			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	2.5	2.50	Target has been met
Action 1: Augmenting extra experiments in lab courses and mini projects are encouraged. Action 2: Conducted workshops in latest technologies AI. Action 3: More students are encouraged to select complex problem and provide solution for Smart India Hackathon and Hacker earth.			
PO 5 : Modern Tool Usage			
PO 5	2.5	2.83	Target has been met
Action 1: Workshops in IOT, Cloud computing, Big Data analytics were conducted for students. Action 2: Latest software tools are installed in computer laboratory Action 3: Industry suggestions are collected for curriculum development. Action 4: Mini projects are given to the students in the subject Object Oriented Software Engineering.			
PO 6 : The Engineer and Society			
PO 6	2.5	2.57	Target has been met
Action 1: Awareness programs are conducted to educate about the society issues influenced engineering practices.			
PO 7 : Environment and Sustainability			
PO 7	2.5	2.79	Target has been met
Action 1: Students are encouraged to implement their project work in a real environment instead of doing simulation works. Action 2: Case studies are given to students to expose the knowledge on factors affecting environment sustainment.			
PO 8 : Ethics			
PO 8	2.5	2.75	Target has been met
Action 1: Conducted many co-curricular activities and extra-curricular activities to get the knowledge on ethical values.			
PO 9 : Individual and Team Work			
PO 9	2.5	2.67	Target has been met
Action 1: Conducted different co-curricular activities like paper presentation, group discussion and project exhibition for students to work on team and communicate effectively. Action 2: In main projects and mini projects, students are motivated to work as a team.			
PO 10 : Communication			
PO 10	2.5	2.78	Target has been met
Action 1: Courses are is conducted for first year students to improve the reading, writing and speaking skills. Action 2: MOCK interviews are conducted to develop one - one communication skills. Action 3: Soft Skill training program is conducted for students to improve their personal, attitude and communication skills.			
PO 11 : Project Management and Finance			
PO 11	2.5	2.79	Target has been met
Action 1: In project work, management aspects and financial aspects are instructed and monitored. Action 2: Conducted different co-curricular activities like paper presentation, technical quiz. Project reviews for students to improve their managerial skills.			
PO 12 : Life-long Learning			
PO 12	2.5	2.72	Target has been met
Action 1: Workshops and training program are conducted on changing technologies to understand the need for life long learning. Action 2: Students are encouraged to refer reputed journal paper to know about recent trends, research and also to understand the importance of life-long learning. Action 3: Students are motivated to engage with alumini to gather feedback on the effectiveness of the program in developing life long learning skills.			

PSOs Attainment Levels and Actions for Improvement- (2023-24)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Analytical Thinking: Identify, formulate and solve engineering problems by applying mathematical foundations and algorithmic principles in IT environment to meet challenges.			
PSO 1	2.5	2.54	Target has been met
Action 1: Assignments, tutorials and cases studies are given in all the basic subjects to attain basic knowledge on Engineering fundamentals to improve the attainment level. Action 2: Students are encouraged to do special courses in programming languages to improve the skills of developing computer based solution.			
PSO 2 : Principles of Information Technology: Analyze, design and develop Software, Multimedia, Web Applications and Networking Technologies for an efficient design of Information based systems with high professional skills.			
PSO 2	2.5	2.52	Target has been met
Action 1: Organized project expo, paper presentation events for the students to increase the spirit of software development. Action 2: Conducted workshops on IOT, AI to improve the programming skills of the students. Action 3: Students are encouraged to design and develop one software pertaining to any subject in their current semester or using any recent technology.			
PSO 3 : Engineering Ethics: Understand best practices, ethical standards and replicate the same for the industry, research and social needs.			
PSO 3	2.5	2.51	Target has been met
Action 1: More students are encouraged to select real world problems and provide solution for Smart India Hackathon .			

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

9.1 Mentoring system to help at individual level (5)

Total Marks 5.00

Institute Marks : 5.00

The mentoring system of DMICE is designed to provide personalized guidance and support to each student, addressing their academic, professional, and personal development needs. Mentors work closely with students toidentify challenges, set goals, and track progress, ensuring they receive the necessary assistance, motivation, and resources to succeed. This system fosters one-to-oneinteractions, enabling students to enhance their skills, confidence, and overall growth in a structured and supportive environment.

Student Counselling Centre

The Student Counselling Centre at DMI College of Engineering (DMICE) provides a dedicated professional counsellor and a safe, supportive space on campus for students. It offers guidance on personal, academic, and career-related challenges through one-on-one sessions, helping students manage stress, anxiety, and emotional difficulties. The centre is a place where students are heard, understood, and encouraged, fostering resilience and emotional well-being. By nurturing a positive mindset and providing compassionate support, the centre plays a vital role in students overall growth, aligning with the college's commitment to holistic education and excellence.

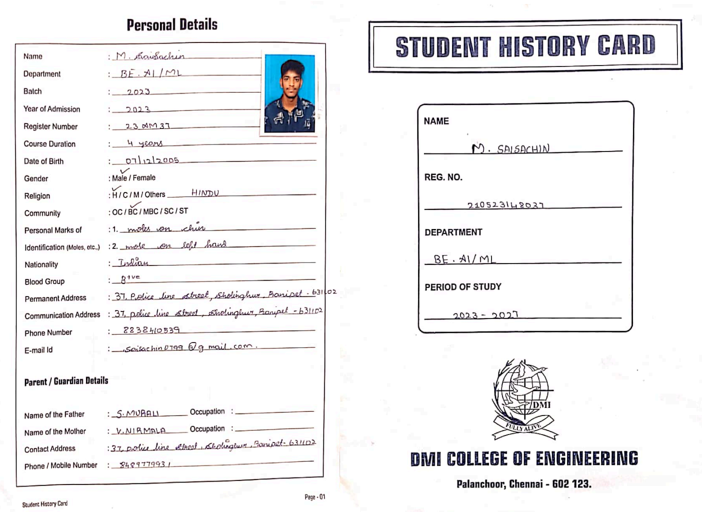
Mentoring Process

Each faculty member is assigned to a batch of 15 to 20 students in a class. Mentor-Student Meetings are conducted once a month in every semester. Each student are required to complete a Student history card containing details about their parents or guardian, addresses, contact numbers, and academic history, including marks from all end-semester exams and periodical tests. The class coordinators or mentors maintain these History Cards. Mentors keep track of progress through the Performance Improvement Plan (PIP).

Mentoring and Counselling the Students

- To monitor student's regularity and discipline.
- To enable parents to stay informed about the performance and regularity of their wards.
- To improve the teacher-student relationship.
- To counsel students, address their problems, and provide confidence to improve their quality of life.
- Mentors meet the students assigned to them once a month in a semester.
- Parents or guardians of students with poor attendance or performance are called to meet the mentors, and corrective and preventive measures are implemented for further improvement.
- Each mentor maintains detailed student information, which is reviewed by the Head of the Department (HOD) and other concerned authorities as necessary.

Figure 9.1: Sample Photo for Student Mentoring



Personal Details

Name : M. Saisachin
Department : BE. AI/ML
Batch : 2023
Year of Admission : 2023
Register Number : 23 AM 37
Course Duration : 4 years
Date of Birth : 07/12/2005
Gender : Male / Female
Religion : H / C / M / Others HINDU
Community : OC / BC / MBC / SC / ST
Personal Marks of Identification (Moles, etc.,) : 1. moles on chin
: 2. mole on left hand
Nationality : Indian
Blood Group : B+ve
Permanent Address : 37, Police line street, Sholinghur, Ranipet - 631102
Communication Address : 37, police line street, Sholinghur, Ranipet - 631102
Phone Number : 8838410539
E-mail Id : saisachin0799@gmail.com.

Parent / Guardian Details

Name of the Father : S. MURALI Occupation :
Name of the Mother : V. NIRMALA Occupation :
Contact Address : 37, police line street, Sholinghur, Ranipet - 631102
Phone / Mobile Number : 8489779931

Student History Card Page - 01

STUDENT HISTORY CARD

NAME
M. SAISACHIN

REG. NO.
210523148037

DEPARTMENT
BE. AI/ML

PERIOD OF STUDY
2023 - 2027

DMI FULLY ALIVE

DMI COLLEGE OF ENGINEERING
Palanchoor, Chennai - 602 123.

Figure 9.2: Sample Student History Card

9.1.1	Mentoring Process Flow

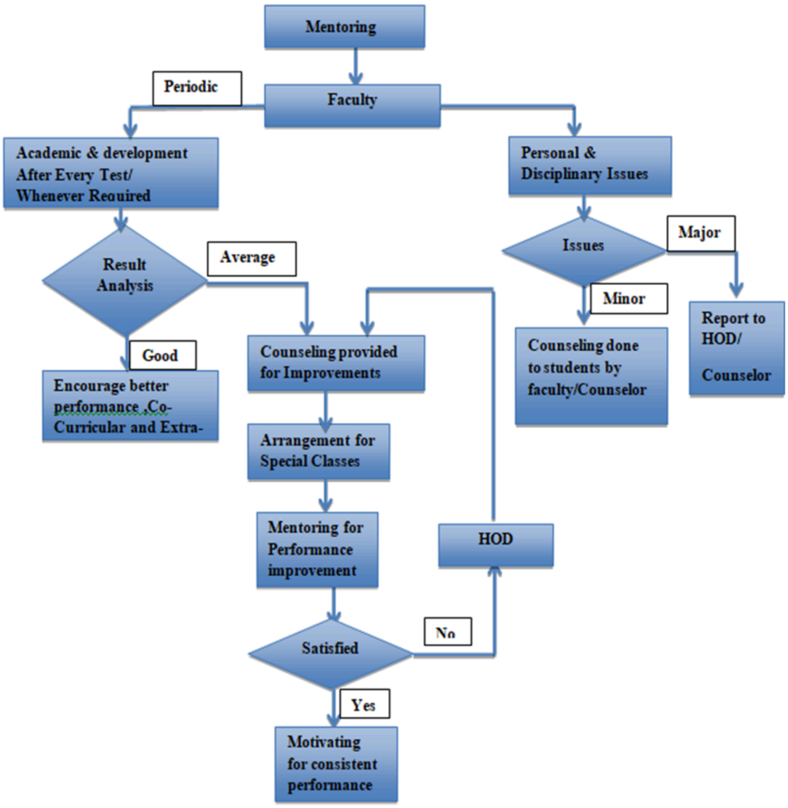


Figure 9.3: Mentoring Process

Role of Mentors

- Ensure that students understand not only their commitment to their studies but also the value of contributing to the professional community and society.
- Keep track of students' progress and achievements, set milestones, and acknowledge their accomplishments.
- Observe students from diverse cultural and ethnic backgrounds and adopt productive methods to support their unique needs.
- Encourage students to explore new techniques and discuss concepts for better outcomes.
- Provide support and encouragement during times of emotional and physical distress, and recognize their accomplishments.

9.1.2	Policy Mechanism of Mentoring System

Table 9.1: Policies of Mentoring

Mentoring System	Description
Type of Mentoring	Professional Guidance/ Carrier Advancement / Academic Specific/ Laboratory Specific / All-Round Development/ Personal
Number of Students per Mentor	15 to 20
Frequency of Meeting	Meeting conducted every month after internal assessment by OFFLINE MODE
Parents Feedback	The Parents feedback is collected after every parents meet in the department or through phone calls.
Analysis	The feedback analysis will be referred by the HOD's for corrective measures, through Head of the Institution

9.1.3	Outcome of Mentoring System

- Increase in student attendance and active participation in academic activities.
- Enhanced academic performance, technical skills, and engagement in extracurricular activities.
- Significant improvement in the quality and innovation of student projects.
- Development of students personality, confidence, and mental resilience.
- Greater opportunities for career advancement, including higher education prospects.
- Enhanced capability to understand, evaluate, and contribute to resolving societal challenges effectively.

9.2 Feedback analysis and reward /corrective measures taken, if any (10) Total Marks 10.00

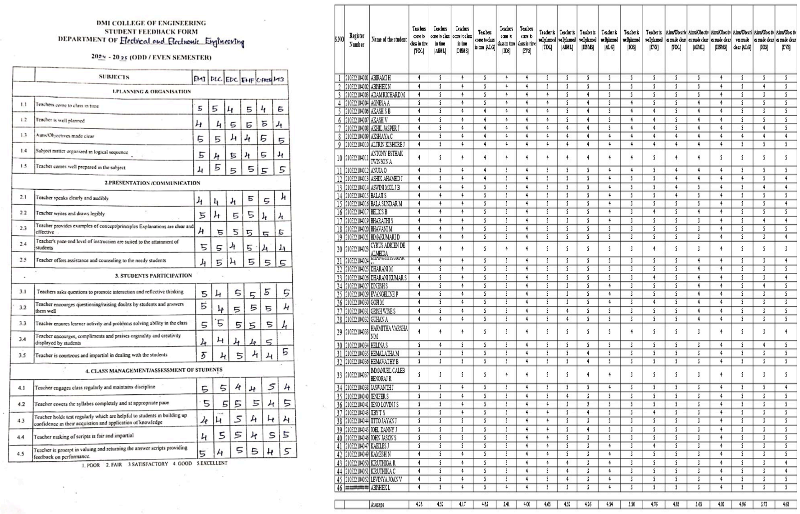
Institute Marks : 10.00

Feedback Collection Frequency: Conducted twice per semester for all courses (**YES/NO** format).

- Mode of Feedback Collection: Online Process.

Procedure

- Students from each class follow a pre-planned schedule and are guided to the computer lab for feedback submission.
- The questionnaire allows students to rate their experience as Excellent, Good, Satisfactory, Average, Poor based on their learning experience.
- Upon completion, a consolidated report is automatically generated and submitted to the Head of Department (HOD) and Principal for review.
- The final compiled report is shared with individual faculty members for feedback analysis and improvement.



DMI COLLEGE OF ENGINEERING
STUDENT FEEDBACK FORM
DEPARTMENT OF Electrical and Electronic Engineering
2024 - 2025 (ODD / EVEN SEMESTER)

	SUBJECTS	EMI	DLC	EDC	EMF	C-Prog	M3
	1.PLANNING & ORGANISATION						
1.1	Teachers come to class in time	5	5	4	5	4	5
1.2	Teacher is well planned	4	4	5	5	5	4
1.3	Aims/Objectives made clear	5	5	4	4	5	5
1.4	Subject matter organized in logical sequence	5	4	5	4	5	4
1.5	Teacher comes well prepared in the subject	4	5	5	5	5	5
	2.PRESENTATION /COMMUNICATION						
2.1	Teacher speaks clearly and audibly	4	4	4	5	5	4
2.2	Teacher writes and draws legibly	5	4	5	5	4	4
2.3	Teacher provides examples of concept/principles Explanations are clear and effective	4	5	5	5	5	5
2.4	Teacher's pace and level of instruction are suited to the attainment of students	5	5	4	5	4	4
2.5	Teacher offers assistance and counseling to the needy students	4	5	4	5	5	5
	3. STUDENTS PARTICIPATION						
3.1	Teachers asks questions to promote interaction and reflective thinking	5	4	5	5	5	5
3.2	Teacher encourges questioning/raising doubts by students and answers them well	5	4	5	5	5	4
3.3	Teacher ensures learner activity and problems solving ability in the class	5	5	5	5	5	4
3.4	Teacher encourges, compliments and praises orginality and creativity displayed by students	4	4	4	4	5	
3.5	Teacher is courteous and impartial in dealing with the students	5	4	5	4	4	5
	4. CLASS MANAGEMENT/ASSESSMENT OF STUDENTS						
4.1	Teacher engages class regularly and maintains discipline	5	5	4	4	5	4
4.2	Teacher covers the syllabes completely and at appropriate pace	5	5	5	5	4	5
4.3	Teacher holds test regularly which are helpful to students in building up confidence in their acquistion and application of knowledge	4	4	5	4	4	4
4.4	Teacher making of scripts is fair and impartial	4	5	5	4	5	5
4.5	Teacher is prompt in valuing and returning the answer scripts providing feedback on performance.	5	4	5	5	4	5

1. POOR 2. FAIR 3 SATISFACTORY 4 GOOD 5.EXCELLENT

Figure: 9.4: Sample Feedback (Offline and Online)

Feedback Analysis Process

- Student Participation Rate: More than 90% of students actively participate in the feedback process.

Feedback Evaluation Method

- The collected feedback is assessed using a 5-point scale, and the average score is converted into a percentage.
- The Head of Department (HOD) and Principal conduct a detailed analysis of the feedback.
- Faculty members receive constructive feedback and necessary guidance to enhance their teaching effectiveness.
- Appropriate counselling and support are provided to staff for continuous improvement.
- We also collaborate with Performance Improvement Plan (PIP).

Table 9.2: Feedback Analysis Grading

Grading	Points
Excellent	5
Good	4
Satisfactory	3
Average	2
Poor	1

Feedback-Based Rewards & Corrective Measures

Based on student feedback on faculty performance and result analysis, the institute implements the following rewards and corrective measures

Rewards

- Faculty feedback scores are taken into account when evaluating eligibility for rewards and responsibilities.

Corrective Measures

- Faculty members receiving a feedback score below 70% are provided counselling and guidanceby the HOD and Principal to help improve their performance.
- They are encouraged to participate in Faculty Development Programs (FDPs) and other professional training sessions to enhance their teaching skills and methodologies.

Corrective Actions Taken

Faculty members with below-average performance undergo continuous training through Faculty Development Programs (FDPs) to improve their teaching quality, instructional methods, and overall effectiveness.

9.3 Feedback on facilities (5) Total Marks 5.00

Institute Marks : 5.00

Assessment is based on the collection and analysis of student feedback, followed by the implementation of corrective actions.

Feedback on Facilities

Our college follows a standard procedure for gathering feedback on its facilities. Students provide feedback on various amenities, including water, internet, canteen, sports, and washroom facilities. The collected feedback is analysed, and after discussions with the Management, necessary corrective actions are taken.

Feedback Preventive Action

- When complaints are received from students regarding general facilities such as the library, hostel, canteen, etc., a report is submitted to the appropriate authorities for immediate corrective measures.
- All actions taken are promptly recorded for reference and accountability.

Following is the Process of Feedback on Facilities

- Feedback Collection Process
- FeedbackAnalysis
- Corrective Measures

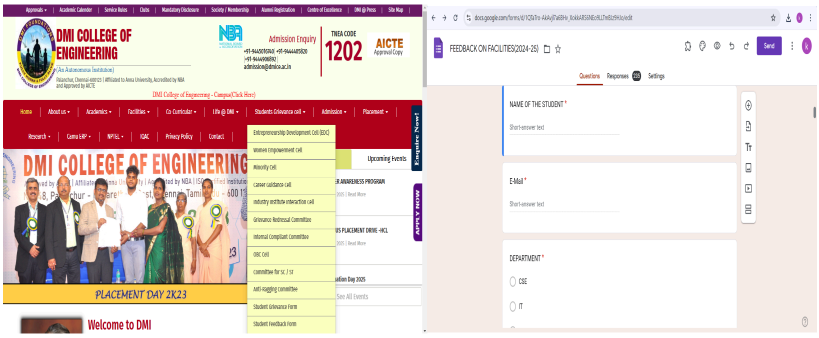


Figure 9.5: Facility Feedback on DMICE Website

1. Feedback Collection Process

Table 9.3: Details of Feedback Collection Process

Items	Description	
Feedback collected on all facilities provided by the college	YES	
Feedback Collection Process	Computerized	
Feedback Receiver	Principal / HOD/ Academic Audit Coordinator	
Frequency of Feedback Collection	Once in a year	
Metrics used for Calculation	Poor:	1
	Fair:	2
	Satisfactory:	3
	Good:	4
	Excellent:	5
Purpose of Comments	For improving the quality of facilities.	

Format of Student Feedback on Facility

Table 9.4: Questionnaires on Facilities Feedback

S. No	Questionnaires
1	Whether the lighting and ventilation in classrooms are satisfied?
2	Whether the furniture quality and quantity is maintained?
3	Projectors and screens available in classroom?
4	Whether the cleanliness is maintained in the class room?
5	No. of Computers sufficient for all students?
6	Whether the software required is available in the lab?
7	Is Cleanliness maintained in the lab?
8	Is Food price normal?
9	Is food quantity apt with the price?
10	Is food hygiene maintained?

11	Is the food provided is quality one?
12	Is no. of washrooms sufficient?
13	Is cleanliness maintained in washrooms?
14	Availability of ample water supply?
15	Is Drinking water quality maintained?
16	Is Wi-Fi Accessible?
17	Is Net speed?
18	Enough space available to play sports in college?
19	Is there Support and promotion of sports activities by university authorities?
20	Is there Motivation from institute authorities to participate and other college fest?

Table 9.5: Rating Scale

Grading	Points
Excellent	5
Good	4
Satisfactory	3
Average	2
Poor	1

2. Feedback Analysis

The feedback given by the students is consolidated and analyzed. Principal / HOD/ Academic audit Coordinator will discuss about the consolidated report with the management and come out with necessary actions.

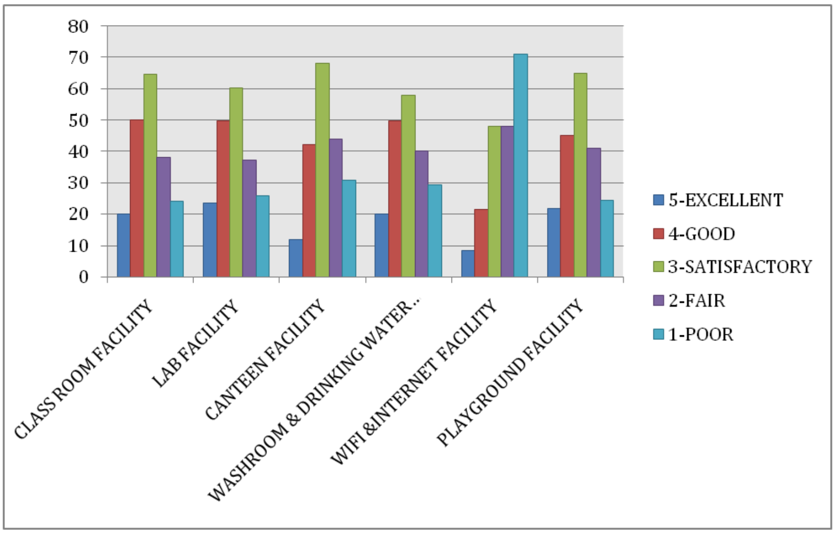


Figure 9.6: Overall Feedback Analysis on Facilities for 2024-25

3. Corrective Measures

The college will take corrective action about the complaint by informing the facilities manager or administrator, who will then have the campus team address the issue.

9.4 Self-Learning (5) Total Marks 5.00

Institute Marks : 5.00

Self-learning helps students develop a sense of responsibility, equipping them with essential attributes for their careers. It enables them to gain knowledge and apply it to broader domains, fostering a deeper understanding of their discipline. The college provides self-learning resources for students, including webinars, NPTEL, SWAYAM, KARMA, Google certificationsand more. Additionally, self-learning encourages active participation in industrial training like implant trainings and internships. ERP CAMU is available where besides the course materials, quizzes, assignments and tutorials are uploaded to promote self-learning.

- Central Library
- Department Library
- Digital Library
- Wi-Fi Connectivity
- Course Materials uploaded on the CAMU (ERP)

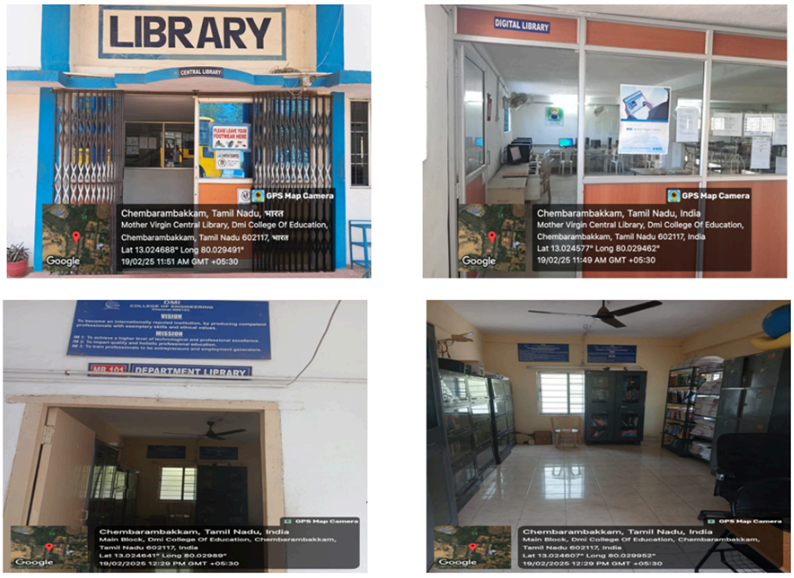


Figure 9.7: Library in DMICE

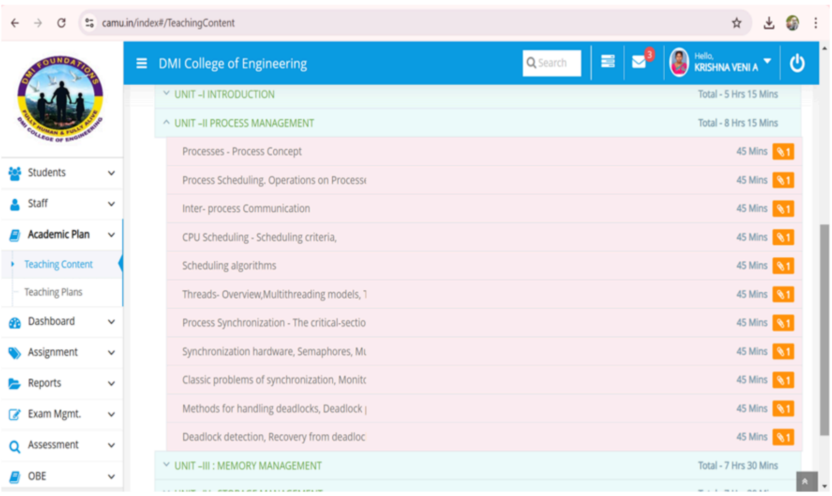


Figure 9.8: Sample Course Material in CAMU (ERP)

Facilities

- The Central Library is well-equipped with journals and books related to subject knowledge, general knowledge, and skill development.
- The library offers web-based learning resources, including access to online journals and open-access materials through platforms like IEEE Online and DELNET.
- The institution provides access to NPTEL online courses to support student development.

Figure. 9.9: Sample NPTEL and KARMA Certificate

Figure 9.10: Sample Google Course Certificate

- Students engage in online courses through platforms such as MOODLE and participate in webinars.
- Students are encouraged to participate in technical contests in other institutions.
- Students gain hands-on experience through in-plant training in industries relevant to their subjects.
- Annual industrial visits are organized to factories and companies related to current subjects, enabling students to acquire practical knowledge and learn beyond the classroom.
- Technical symposiums are conducted by each department, inviting experts in technical fields to share insights and broaden students knowledge.

Figure 9.11: Webinar on Electonic Commerce Security

9.5 Career Guidance, Training, Placement (10) Total Marks 10.00

Institute Marks : 10.00

Career Guidance

Career counselling is a vital process that helps students and professionals make informed career decisions. It enables individuals to explore career options, understand available opportunities, and assess career prospects, including earning potential.

Career Guidance Mechanism

- DMI College of Engineering conducts career assessment tests to evaluate students' interests, strengths, aptitudes, and personality traits.
- Faculty members and industry professionals provide mentorship on career selection, higher education, and industry trends.
- Career counselling sessions and workshops with industry experts enhance awareness of job roles and skill requirements.
- Internships, training programs, and on-the-job experiences improve students employability and career preparedness.

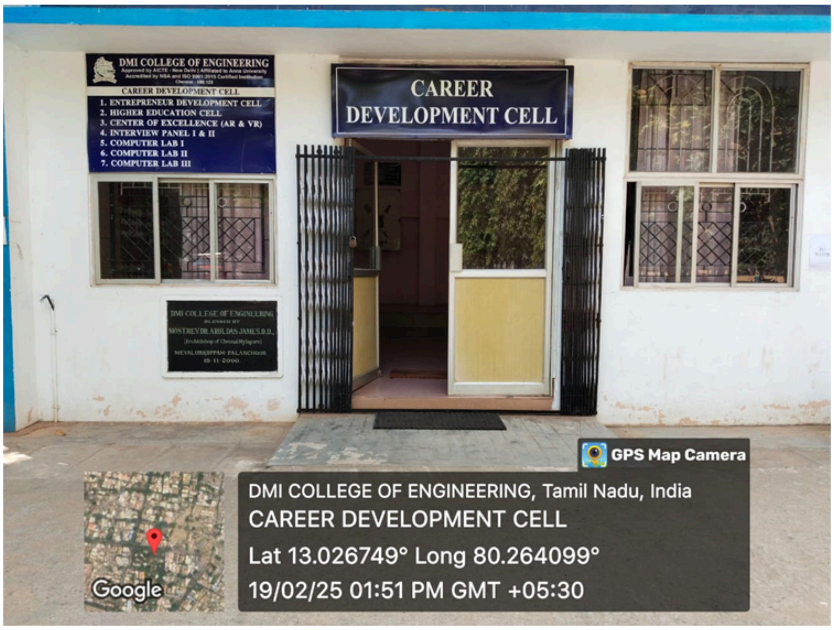


Figure 9.12: Career Guidance Cell

Training and Placement

DMI College of Engineering has established a dedicated Training and Placement Cell, led by the Placement Officer and a department coordinator from each department. This Cell plays a crucial role in securing job placements for eligible students while striving to improve the average and highest salary packages each year.

Key Responsibilities and Activities

- Actively connects with industries across the country to arrange placement talks and recruitment processes.
- Develops and systematically imparts comprehensive study materials covering Quantitative Aptitude, Reasoning, Verbal Ability, Personality Development, and Presentation Skills to enhance career readiness and professional competence.
- Conducts regular mock interviews to prepare students for real-world placement scenarios.
- Organizes training programs to enhance students employability and career readiness.
- Collects feedback from recruiting companies at the end of each placement process to improve career competency development programs.

Table 9.6: Placement Details

S.NO	YEAR	NO.OF STUDENTS PLACED	HIGHER EDUCATION	ENTREPRENEUR	TOTAL
1	2023-24	295	8	1	304
2	2022-23	277	6	2	285
3	2021-22	290	17	2	309
	TOTAL	862	31	5	898

9.6 Entrepreneurship Cell (5) Total Marks 5.00

Institute Marks : 5.00

- The Entrepreneur Development Cell (EDC) at DMI College of Engineering fosters an entrepreneurial culture, encouraging innovation among students and faculty. It serves as a platform to equip aspiring entrepreneurs with the knowledge and skills to transform ideas into successful ventures.
- The EDC regularly hosts industry experts for guest lectures, offering insights into business strategies, start-up management, and success stories. These interactions help students develop an entrepreneurial mind-set and innovative thinking.
- Led by Dr. R. UmaMaheswari, Associate Professor, ECE, along with faculty coordinators from various departments, the EDC provides mentorship, training, and resources to empower students to innovate, take risks, and contribute to economic growth.
- Our College is an active partner of Wadhwani foundation that focuses on accelerating job growth.

Table 9.7: Activities of EDC

S. No	ED EVENT	GUEST SPEAKER	EVENT DATE
1	ED Bazaar	Mrs. BoomaSubbarao	15/03/2024
2	Entrepreneurship Challenges	Mr. VijayaKomagan	26/09/2023
3	Be You	Mr. Lion Kishore Srinivasan	22/09/2023
4	Developing & Implementing strategies plans for Business Growth	Mr. RajeshkumarRavichandran	12/09/2023
5	Funding Opportunities for New Entrepreneurs	Dr. P Anandhan- Asst.Professor/ Senior Grade 2 at VIT, Chennai.	04/03/2023
6	Innovation & Entrepreneurship	1.Prof.Dr.C.B.Ragothaman 2.Dr.Sankaraman-Professor	28/02/2023
7	Budding Entrepreneur	Mr. Mohan Ram, Founder and Director of &IEQS.	02/12/2022
8	Nuances in Entrepreneurship	Mr. Thompson Abraham, Entrepreneur, Freelancer.	17/09/2022
9	Being an Entrepreneur	Mr. G.K. Narayanan, Director, Joyce Infratech Ltd & Joyce Power International Pvt. Ltd, Singapore.	13/02/2022
10	Entrepreneurship Awareness Programme	1.Dr. Daniel Chellappa-Eminent Nuclear scientist, Dr. KLS 2.Dr. KLS Reddy, IEDS, Asst. Director-MSME-DI 3.Shri Leela Krishnan-Asst. Director-MSME-DI,	23/03/2022
11	Unleashing the new trends of an Entrepreneur	Mr. S. Pandian, Founder, Kathir Sudhir Automation Pvt. Ltd	26/10/2021

Figure 9.13: "Developing and Implementing Strategic Plans for Business Growth" held on 12/09/23

9.7 Co-curricular and Extra-curricular Activities (10) Total Marks 10.00

Institute Marks : 10.00

Co-Curricular and Extra–Curricular Activities

DMI College of Engineering recognizes the significance of co-curricular and extra-curricular activities in fostering the holistic development of students. The institution provides various opportunities and resources to encourage student participation in technical, cultural, and professional activities.

Co-Curricular Activities

- Students are encouraged to engage in paper presentations, project displays, and technical competitions through professional societies, department associations, and clubs.
- Technical symposiums, workshops, and guest lectures are organized annually, ensuring active student participation.
- Specific courses and assignments integrate co-curricular activities into the academic curriculum to enhance practical learning.
- Departments host student associations that conduct conferences, seminars, and workshops.
- The college houses student chapters of professional organizations such as ISTE, IEEE, CSI, SAE, IAEng fostering networking and skill development.
- Students are motivated to participate in technical symposiums, seminars, and cultural fests at other institutions, enhancing their exposure to industry trends and innovations.
- The college encourages students to organize and participate in national-level symposiums, cultural events, and technical fests.
- Our College has various department wise clubs to encourage students actively participate in the club activities.

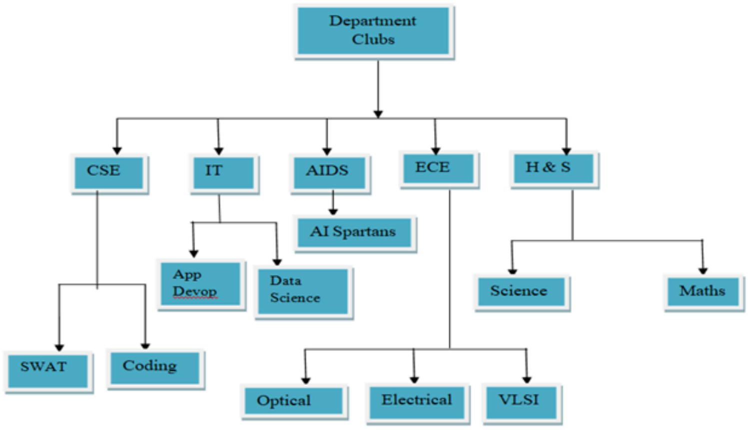


Figure. 9.14: Department Clubs

Table 9.8: Department Clubs

DEPARTMENT	NAME OF THE CLUB
AIDS	AI SPARTANS Club
CSE	SWAT Club
	Coding Club
ECE	Electronics Club
	Microwave Club
	VLSI Club
EEE	Energy Club
	Dr. Abdul Kalam Club
IT	App Development Club
	Data Science Club
MECH	Robotics Club
	SAE Club
	Additive Manufacturing Club
S&H	Science Club
	Maths Club

Extra-Curricular Activities

Clubs for Social Activities or Connect

1. National Service Scheme (NSS)

The NSS unit at DMI College of Engineering plays a crucial role in nurturing responsible and compassionate citizens. Comprising dedicated volunteers, the unit promotes a spirit of service, empathy, and community engagement.

NSS provides students with valuable opportunities to understand societal challenges and develop a sense of responsibility. One of its key initiatives is a week-long special camping program in adopted villages, where students collaborate on various activities, share experiences, and take on social responsibilities to address regional and national issues.

DMI College of Engineering conducts NSS activities annually by the Anna University NSS schedule. Some of the key initiatives include

- Tree Plantation Drive
- Swachh Bharat Abhiyan

- Traffic and General Awareness Program
- COVID-19 Awareness and Facilitation
- COVID-19 Vaccination Drive for Staff
- Plastic Eradication Awareness Camp
- International Day of Yoga Celebration
- Dengue Awareness Program
- Waste Management Awareness Campaign
- Tobacco Awareness Program

Through these initiatives, the NSS unit instils a strong sense of social responsibility and service, empowering students to make meaningful contributions to society.

Figure 9.15: **Tree Plantation at DMICE**

Table 9.9: NSS Activities

S. NO	NSS EVENT	CHIEF GUEST	EVENT DATE
2024-25			
1	Tree Plantation Program	Principal Dr.Azhagesan, Rev. Sr. Pradeepa	05/06/2024
2	International Yoga Day	Ms. Anne Williams	21/06/2024
3	Eye and Dental Camp	Dr.Abishek and Mr.Kiran	19/07/2024
3	Blood Donation Camp	Nemam Health Inspector Mr.Vijayakumar and doctors Dr.Jothi and Dr. Jaya Lakshmi	20/09/2024
4	Plastic Awareness Program	Principal	25/10/2024
5	Anti-Drug Awareness Program	Ms.Navarathna	06/11/2024
2023-24			
1	Voter's awareness rally	Principal	21/03/2024
2	Campus Cleaning Program	Principal	02/04/2024
3	SwachhBharat Mission	-	11/04/2024
4	Village Cleaning	-	12/04/2024
5	Temple Cleaning	-	13/04/2024
6	Plastic Awareness	-	14/04/2024
7	Special Program to Elementary School Students	-	15/04/2024
8	Medical Camp to Village People	Nemam Health Inspector Mr.Vijayakumar and doctors Dr.Kamatchi, Government Health Primary Centre	16/04/2024
9	Tobacco awareness rally	Nemam Health Inspector Mr.Vijayakumar and Mr. Ramesh, Inspector of Police	27/06/2023

10	Drug Abuse awareness Program	Nemam Health Inspector Mr.Vijayakumar and Mr. Krishna, Inspector	11/08/2023
11	Blood Donation Camp	Nemam Health Inspector Mr.Vijayakumar and doctors Dr.Kamatchi, Government Health Primary Centre	21/09/2023
12	Traffic Awareness Program	Mr.Sivam, Inspector of Police, Nazaretpet	24/11/2023
2022-2023			
1	SwachhBharat Mission	-	14/02/2023
2	Village Cleaning	-	15/02/2023
3	Temple Cleaning	-	16/02/2023
4	Plastic Awareness	-	18/02/2023
5	Special Program to Elementary School Students	-	17/02/2023
6	Blood Donation Camp	Nemam Health Inspector Mr.Vijayakumar and doctors Dr.Kamatchi, Government Health Primary Centre	21/09/2022
7	National Deworming Day	Mr.Adhiseshan	17/08/2022
8	Tree Plantation Program	Mr.Marimuthu, Lawyer, Palanchur	05/06/2022

2. Red Ribbon Club (RRC)

The Red Ribbon Club of DMI College of Engineering actively organizes various awareness programs and community initiatives to promote health and social responsibility among students. The club conducts blood donation camps, plastic awareness rallies, dengue awareness rallies, tobacco awareness programs, and rabies awareness rallies to educate and engage students in meaningful social causes.

Through these initiatives, the Red Ribbon Club fosters a sense of social responsibility and encourages students to contribute to the well-being of the community. By spreading awareness on critical health and environmental issues, the club continues to make a positive impact both within the campus and beyond.

Figure 9.16: **Sample Program Organized by RRC**

3. LEO Club

A Leo Club is a youth organization that empowers young individuals to become active community leaders. Sponsored by Lions Clubs International, Leo Clubs offer opportunities for members to develop leadership skills, serve their communities, and build lasting friendships. With a strong focus on service, leadership, and fellowship, Leo Clubs inspire young people to create a positive impact in their communities.

Figure 9.17: Sample LEO Club Activities

4. Go Green Club

The Go Green Club at DMI College of Engineering promotes environmental sustainability through awareness, waste management, energy conservation, and green initiatives like tree plantations and clean campus drives. It organizes eco-friendly workshops, rainwater harvesting awareness, and e-waste collection to instill environmental responsibility. By fostering a culture of sustainability, the club inspires students to contribute to a greener campus and a healthier planet.

Figure 9.18: **Sample Program Organized by Go Green Club**

5. IGEN Club

The IGEN Club at DMI College of Engineering (DMICE) promotes sustainability, green energy, and environmental responsibility among students. It fosters awareness, innovation, and action through seminars, workshops, and research on renewable energy and sustainable development. The club collaborates with industry experts and organizations to provide valuable learning opportunities while encouraging student-led projects in green technology. Through community engagement and awareness drives, it instills ecological responsibility. Additionally, it offers skill development in waste management, energy conservation, and emerging green technologies. Committed to shaping future leaders in sustainability, the IGEN Club at DMICE empowers students to contribute to a greener future.

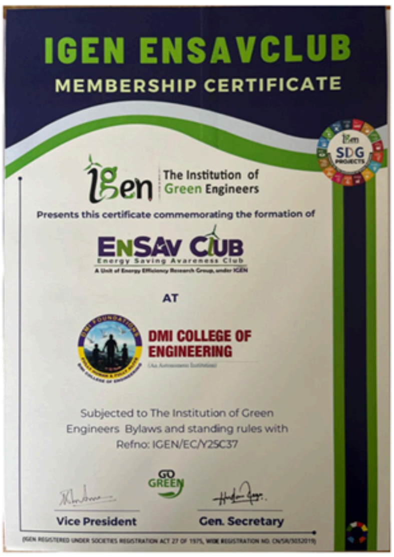


Figure 9.19: Sample IGEN program

6. Vanam

The Vanam Club of DMI College of Engineering actively collaborated with Vanam India Foundation to participate in their Short Film Competition, fostering creativity and environmental awareness among students.

This initiative provided students with a platform to express their ideas through short films while strengthening their association with Vanam India Foundation. It reinforced a shared dedication to environmental and social causes. The Vanam Club continues to inspire and engage students in impactful activities, encouraging them to contribute positively to society.

7. Bhumi

Students of DMI College of Engineering partnered with Bhumi NGO to conduct an awareness program, educating the public on key social and environmental issues. As part of this initiative, students actively participated by distributing pamphlets and walking through the streets to spread awareness within the community.

This initiative was a significant step toward social engagement, encouraging responsible actions and informed decision-making. Through this collaboration with Bhumi, students not only contributed to a noble cause but also developed a strong sense of civic responsibility and leadership.

Cultural Activities

Cultural activities play a vital role in student life, fostering creativity, self-expression, and holistic development. DMI College of Engineering encourages student participation in cultural, literary, and fine arts events, providing a platform to showcase talents, enhance skills, and promote traditional values. Various competitions and programs are organized annually, with outstanding students recognized during College Day celebrations.

- Encourages creativity and self-expression.
- Provides opportunities for students to showcase talents.
- Promotes cultural, traditional, and ethical values.
- Enhances personality development and networking.
- Recognizes and honours outstanding performers.

Figure 9.20: Sample Program for Cultural Activities

Sports Facilities and Activities

The college has a dedicated Physical Education Department led by a Physical Education Director, responsible for organizing sports and recreational activities. The institution provides excellent facilities for major sports and indoor and outdoor recreational activities.

A well-equipped sports facility is available, offering opportunities for students to participate in various games and sports. The available options include:

- Indoor games: Shuttle, Table Tennis, Chess, Carom.
- Outdoor sports: Cricket, Athletics, Volleyball, Basketball.

The college actively promotes a sports culture, encouraging students to engage in physical activities for overall well-being and fitness by Annual Sports Day.

Table 9.10: Available Sports Facilities

S. No	Description	Details
1.	Total area of the Play Ground	1132560 Sq. ft.
2.	Outdoor Games available	1. Ball Badminton court-1nos. 2. Basket Ball court-2nos. 3. Kabaddi Court-1nos. 4. Kho-Kho Court -1no. 5. Cricket Net's – 2 no 6. Football Field – 1 no 7. Athletics Track – 200 m 8. Throw ball – 1 no 9. Volley Ball court with Fencing-2nos.

3.	Indoor Games available	1. Badminton court -2nos. 2. Table Tennis – 1 no 3. Carom–1nos. 4. Chess–3nos.
4.	Details of Gymnasium (Fitness Equipments)	1. Four station multi gym-2 2. Weight rod-4 3. Rubber Dumb Bells-20 kgs 4. Flat Bench Press-1 5. Rubber plates-20 kgs
5.	Details of Outdoor Fitness Equipments	Parallel bar-1 No

Table 9.11: Achievements in Sports

S.NO	EVENT TITLE	POSITION	EVENT PLACE	DURATION
2023 – 2024				
1	Football	First place	P.B college of engineering	19/10/2023
2	Volleyball	Fourth place	Chennai institute of technology	05/10/2023
3	Cricket	Participated	Sri Venkateswara College of Engineering	04/10/2023
4	Basketball	Participated	Rajalakshmi College of Engineering	04/10/2023
5	Badminton Men	Participated	Sri Venkateswara College of Engineering	11/10/2023
6	Chess Men	Participated	Saveetha Engineering College	23/09/2023
7	Kabaddi	Participated	St. Joseph College of Engineering	17/10/2023
8	Table Tennis	Participated	Rajalakshmi Institute of Technology	08/10/2023
9	Badminton Women	Participated	Sri Venkateswara College of Engineering	31/10/2023
10	Chess Women	Participated	Saveetha College of Engineering	23/09/2023
11	Athletics Men & Women	First, Second and Third place	Saveetha College of Engineering	29/11/2022
12	Volleyball Women	Participated	Kings College of Engineering	26/10/2023
13	Kho-Kho	Participated	Saveetha college of Engineering	31/10/2023
14	Half Marathon	Second place	Thiruvallur District	28/08/2023
15	10km Marathon	Third place	Chennai District	15/09/2023
16	Football	Participated	Saveetha University	05/03/2024
17	Basketball	Participated	Sri Venkateswara College of Engineering	27/02/2024
18	Football	Fourth place	Sri Venkateswara College of Engineering	27/02/2024
19	Chess	Participated	Peri Engineering College	28/08/2023
20	Football	Participated	Adhiyamaan College of Engineering	03/12/2023
2022 – 2023				
1	Football	Fourth place	Saveetha College of Engineering	21/11/2022
2	Volleyball	Fourth place	Chennai Institute of Technology	24/11/2022
3	Cricket	Participated	Sri Venkateswara College of Engineering	27/10/2022
4	Basketball	Participated	Rajalakshmi College of Engineering	23/09/2022

5	Badminton Men	Fourth place	Sri Venkateswara College of Engineering	18/11/2022
6	Chess Men	Participated	Saveetha Engineering College	08/08/2022
7	Kabaddi	Fourth place	St. Joseph College of Engineering	15/10/2022
8	Table Tennis	Participated	Rajalakshmi Institute of Technology	10/09/2022
9	Badminton Women	Participated	Sri Venkateswara College of Engineering	08/11/2022
10	Chess Women	Participated	Saveetha College of Engineering	23/09/2022
11	Athletics Men & Women	Second and Third place	Saveetha College of Engineering	23/10/2023
12	Karate	First place	Kanyakumari District	04/12/2022
13	Cricket	Participated	Sathyabama university	17/04/2023
14	Basketball	Participated	Sri Venkateswara College of Engineering	24/02/2022
15	Volleyball	Second place	Saveetha School Mgt	16/02/2023
2021 – 2022				
1	Football	Participated	Saveetha College of Engineering	19/11/2021
2	Volleyball	Third place	Chennai Institute of Technology	24/11/2021
3	Cricket	Participated	Sri Venkateswara College of Engineering	05/12/2021
4	Basketball	Participated	Rajalakshmi College of Engineering	10/09/2021
5	Badminton Men	Fourth place	Sri Venkateswara College of Engineering	23/01/2021
6	Chess Men	Participated	Rajalakshmi Institute of Technology	08/09/2021
7	Kabaddi	Third place	St. Joseph College of Engineering	13/11/2021
8	Table Tennis	Participated	Rajalakshmi Institute of Technology	11/10/2021
9	Badminton Women	Participated	Sri Venkateswara College of Engineering	08/11/2021
10	Chess Women	Participated	Saveetha College of Engineering	16/10/2021
11	Athletics Men & Women	Second and Third place	Saveetha College of Engineering	29/11/2021
12	Athletics	Second Place	Kancheepuram District	14/04/2022
13	Athletics	Second Place	Thanjavur District	09/10/2021

Figure 9.21: **Sample Photo for Sports Activites**

10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

Total Marks 120.00

10.1 Organization, Governance and Transparency (40)

Total Marks 40.00

10.1.1 State the Vision and Mission of the Institute (5)

Institute Marks : 5.00

Vision :

VISION OF THE INSTITUTE

To become an internationally reputed institution by producing competent professionals with exemplary skills and ethical values.

Mission :

MISSION OF THE INSTITUTE

IM 1: To achieve higher level technological and professional excellence.

IM 2: To impart quality and holistic professional education.

IM 3: To train professionals to be entrepreneurs and employment generators.

10.1.2 Governing body,administrative setup,functions of various bodies,service rules, procedures, recruitment and promotional policies (10)

Institute Marks : 10.00

DMI College of Engineering consists of the following Academic and Administrative Bodies

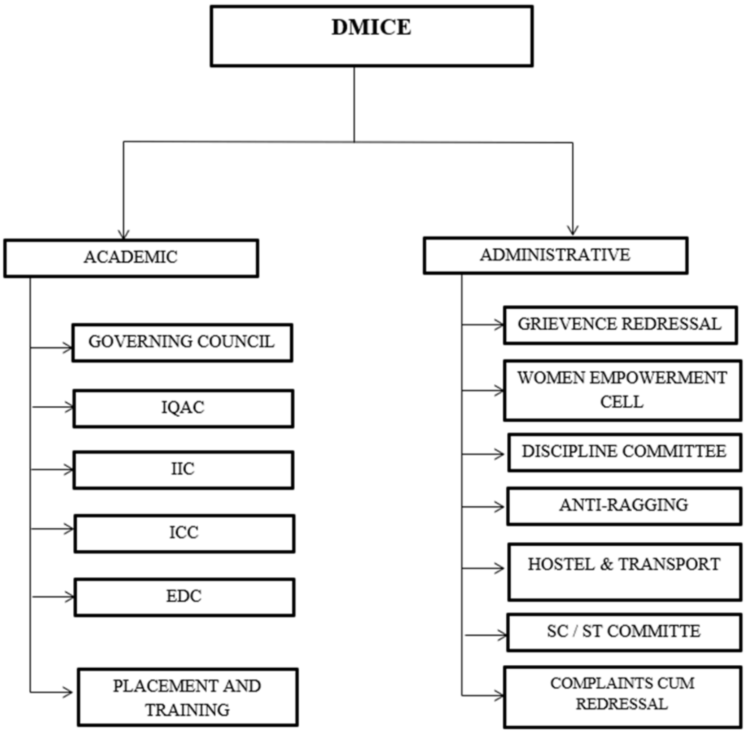


Figure 10.1: Academic and Administrative Body in DMICE

ACADEMIC BODIES

GOVERNING COUNCIL

The governing Council has been constituted as per the guidelines of AICTE and Anna University to guide and advise the management in running the Engineering College efficiently. This council consists of Educationalists and Industrialists Administrators.

Roles and Responsibilities of Governing Council

- To monitor the academic and other related activities of the College.
- To consider the recommendations of the Staff Selection Committee
- To consider the important communications and policy decisions received from the University, Government, AICTE, etc.
- To monitor the students and faculty development programmes
- To consider the recommendations of the Planning and Monitoring Board of the college for implementation.
- To pass the annual budget of the college.

Table 10.1: Governing Council Members

S. No.	Name of the Member	Position in GC	Category
1	Rev. Fr. Dr. J. E. Arulraj Founder (DMI Foundations)	Chairman	Members of the Management
2	Rev. Sr. S. Gnanaselvam, Managing Trustee	Member	
3	Rev. Sr. M. K. Teresa, Correspondent	Member	
4	Rev. Sr. S. Xavier Selvi In-charge of Higher Education DFT Group of Institutions	Member	
5	Rev. Sr. Dr. K. Sandhiyagu Mary, Correspondent, DFT Group of Institutions	Member	
6	Dr. M. A. Leo Vijilious Director	Member	
7	Dr. L. M. Merlin Livingston Director	Member	

8	Dr. V. L. Raja Controller of Examination Department of Mechanical Engineering	Member	Teachers of the College
9	Dr. K. Kalai Kumar Associate Professor Department of AI&DS	Member	
10	Dr. V. Subbiah Bharathi Vice Chancellor, St. Joseph University	Member	Educationist – Management Nominee
11	Mr. Ganesh Thirunavukkarasu, Regional Head-Academic Alliances, Tata Consultancy Services, Chennai	Member	Industrialist – Management Nominee
12	Regional Officer Southern Regional Office, AICTE, Chennai	Member	AICTE (Southern Region) Nominee
13	Dr. S. Letitia, Professor, Department of ECE, Thanthai Periyar Government Institute of Technology, Vellore.	Member	State Government Nominee
14	Dr. M. A. Bhagyaveni, Professor, Department of ECE, College of Engineering, Guindy Anna University, Chennai	Member	University Nominee
15	Dr. Sujatha Jamuna Anand	Member Secretary	Principal of the College

***Frequency of Meeting - Every year in May**

Minutes of Meeting for Governance Council

The inaugural meeting of the Governance Council took place in the Chairmans office. The Chairman welcomed all members, introduced them to one another, and emphasized the significance of this first gathering. He informed the members that the Management has provided excellent infrastructural facilities to the College, marking a strong beginning. He acknowledged and appreciated the dedicated efforts of the Faculty and Principal for achieving commendable academic results. He expressed his hope that the Institute would continue to uphold its standing and strive for further improvement in its outcomes.

Chairman and Members Present:

	DMI COLLEGE OF ENGINEERING Palanchur – Nazarethpet P.O., Chennai – 600 123 Approved by AICTE – New Delhi, Accredited by NBA , Affiliated to Anna University - Chennai			Doc. No	DMICE/ GC/005
FIFTH MEETING OF THE GOVERNING COUNCIL ACADEMIC YEAR 2023 - 24					
MEETING DATE	11.05.2024	VENUE	CONFERENCE HALL	TIME	10.30 a.m

Sl. No	Name of the Member	Position in GC	Category	Signature
1	Rev. Fr. Dr. J. E. Arulraj Founder (DMI Foundations)	Chairman	Members of the Management	
2	Rev. Sr. S.Gnanaselvam Managing Trustee	Member		
3	Rev. Sr. M. K.Teresa Correspondent	Member		
4	Rev. Sr. S. Xavier Selvi In-charge of Higher Education DFT Group of Institutions	Member		
5	Rev. Sr. Dr. K. Sandhiyagu Mary, Correspondent, DFT Group of Institutions	Member		
6	Dr. M. Suresh Director	Member		
7	Dr. M.A. Leo Vijilious Director	Member		
8	Dr.L.M.Merlin Livingston Director	Member		
9	Dr.T.Senthil Kumar Dean (Examinations) Department of Mechanical Engg	Member	Teachers of the College	
10	Dr.Valantina Stephen Associate Professor & Head Department of ECE	Member		

Figure 10.2: Attendance for Governance Council Meeting

INTERNAL QUALITY ASSURANCE CELL (IQAC)

- Promoting a learner-centric environment that supports quality education and helps faculty adopt the necessary knowledge and technology for a participatory teaching and learning process.
- Organizing feedback collection from students, parents, and other stakeholders regarding quality-related institutional processes.
- Documenting various programs and activities that lead to quality enhancement.
- Serving as the institutions central agency for coordinating quality-related activities, including the adoption and dissemination of best practices, and fostering a culture of quality within the institution.
- Preparing the Annual Quality Assurance Report (AQAR) according to NAAC guidelines and parameters for submission to NAAC.
- Disseminating information on various quality parameters to all stakeholders.
- Organizing inter and intra-institutional workshops and seminars on quality-related themes and promoting quality circles.

Table 10.2: Internal Quality Assurance Cell Members

Sl. No	Category	Name	Designation
1	Chair Person	Dr. Sujatha Jamuna Anand	Principal
2	Management	Rev. Sr. M. K. Teresa	Correspondent
3	Coordinator	Dr. R. Senthil Rama	Associate Professor & Head / EEE
4	Members	Mrs. S. P. Shally	Assistant Professor / ECE
5	Members	Mrs. S. Jenitha Karthiga	Assistant Professor / MBA
6	Members	Mr. T. Tamil Kumaran	Assistant Professor / Mechanical
7	Members	Mrs. P. Swarna Lakshmi	Assistant Professor / CSE
8	Members	Mrs. P. M. Steffy Teena Thushara	Assistant Professor / Civil
9	Members	Mrs. J. Jenifer	Assistant Professor / IT
10	Members	Mrs. M. Jasmin Ananthi	Assistant Professor / EEE
11	Members	Mrs. K. Tharani	Assistant Professor / S&H
12	Local Society Nominee	Ms. G. Viji Dali	Official of NGO
14	Alumni Nominee	Mr. Pravin Robert Simon	Deputy General Manager, Randstad India Pvt Ltd
15	Employers/Industrialist/Stakeholders Nominee	Mr. Rajasekar	Employer
16	Student Nominee	Mr. Magesh Krishna	Student (III CSE)

***Frequency of Meeting - Every year in the month of May and December.**

INSTITUTION INNOVATION COUNCIL

The Institution's Innovation Council (IIC) fosters a culture of innovation and entrepreneurship within the institution. It actively organizes workshops, hackathons, and mentorship programs to nurture creative ideas among students and faculty. The council collaborates with industry and government bodies to facilitate startup initiatives and research commercialization. Regular activities are conducted as per MoE Innovation Cell (MIC) guidelines to strengthen the innovation ecosystem. IIC aims to develop a vibrant entrepreneurial mindset, aligning with national innovation and startup policies.

Table 10.3: Institution Innovation Council

Sl. No	Designation	Name of the Faculty
1	President	Dr. A. Amala Mithin Minther Singh, Dean (Research)
2	Vice President	Dr. K. G. Revathi/Dean (Student Affairs)
3	Convenor	Dr. G. Tamilkumaran/Assistant Professor/MECH
4	Innovation Activity Coordinator	Dr. B. Ram Priya/Professor/EEE
5	Start-up Activity Coordinator	Dr. Shankar /Assistant Professor & HOD/MBA
6	Internship Coordinator	Dr. T. D. Sairam/Dean (Placement)/DMICE
7	IPR Activity Coordinator	Dr. W. Agitha/Assistant Professor/ CSE
8	Social Media Coordinator	Dr. V. Anbarasan/Assistant Professor/S&H
9	ARIIA Coordinator	Dr. T. Selvin Retna Raj/Assistant Professor/ECE
10	NIRF Coordinator	Dr. L. Jimson/Assistant Professor & HOD/AIML

11	Members	Dr. N. Nirmal Singh, Dean (Academics) Dr. R. Denslin Brabin, Professor & HOD/CSE Dr. R. Senthil Rama Professor & HOD/EEE Dr. R. Balamurugan, Associate Professor & HOD/IT Dr. Y. Raghu, Associate Professor & HOD/S&H Dr. Venmathi Professor & HOD/ECE Dr. K. Kalai Kumar Associate Professor & HOD/AI&DS

***Frequency of Meeting – Occurring Every Four Months once in a Year**

INTERNAL COMPLIANCE CELL

The Internal Compliance Cell (ICC) ensures adherence to institutional policies, regulatory guidelines, and accreditation requirements. It monitors academic and administrative compliance, conducts internal audits, and addresses any deviations. The ICC facilitates regular training sessions to enhance awareness among faculty, staff, and students. It also acts as a bridge between various departments and regulatory bodies to ensure seamless compliance. Through continuous evaluation and reporting, the ICC strengthens institutional accountability and governance.

Table 10.4: Internal Compliance Cell Members

S. No	Name of Faculty	Category	Designation
1	Dr. Sujatha Jamuna Anand	Principal	Chairman
2	Dr. S. Chitradevi	Professor	Member
3	Dr. L. Jimson	Assistant Professor	Member
4	Mrs. V. Nageswari	Assistant Professor	Member
5	Mrs. J. Delphin Cinthiya	Assistant Professor	Member
6	Dr. V. Anbarasan	Assistant Professor	Member
7	Ms. A. Nadera Banu	III–AI&DS	Student representative
8	Mr. RanjithSahoo	III–Mech	Student representative
9	Rev. Fr. Williams	NGO	Ombudsman

***Frequency of Meeting – Occurring Bi-Monthly in a Year**

ENTREPRENEURSHIP DEVELOPMENT CELL

The Entrepreneurship Development Cell (EDC) fosters entrepreneurial skills and innovation among students by providing guidance, mentorship, and resources. It organizes workshops, seminars, and training programs to promote start-ups and business ventures. The cell collaborates with industry experts and funding agencies to support aspiring entrepreneurs. Various initiatives are undertaken to create a dynamic entrepreneurial ecosystem within the institution. EDC aims to nurture creativity, leadership, and self-reliance among students.

Table 10.5: Entrepreneurship Development Cell Members

Sl. No	Name of the Faculty	Department	Designation
1	Dr. Uma Maheshwari	ECE	Associate Professor
2	Mrs. Mary Varsha J	AI&DS	Assistant Professor
3	Mrs. Abisha G	CSE (AI&ML)	Assistant Professor
4	Mr. Rajthilak D	CSE	Assistant Professor
5	Mrs. Jasmine Ananthi M	EEE	Assistant Professor
6	Dr. Selvin Rethna Raj T	ECE	Assistant Professor
7	Mrs. Jenifer J	IT	Assistant Professor
8	Ms. Kayathri S	MBA	Assistant Professor

9	Mr. Saravanan P	MECH	Assistant Professor

***Frequency of Meeting – At least Two Times in the Year and as the case may be.**

PLACEMENT AND TRAINING CELL

The Training and Placement Cell at DMI is dedicated to enhancing student employability by providing comprehensive training and career guidance. It actively collaborates with leading industries to facilitate campus placements, internships, and skill development programs. The cell conducts workshops, mock interviews, and technical training to prepare students for competitive job markets. Through continuous industry interaction, it ensures excellent placement opportunities for students.

Table 10.6: Placement and Training Cell

Sl. No	Name	Department/Designation	Responsibility
1	Dr. T. D. Sairam	ECE/Professor	Dean Training & Placement
2	Mrs. R. Lavanya	CSE/Assistant Professor	Member
3	Mrs. J. Jenifer	IT/Assistant Professor	Member
4	Dr. Selvin Ratna Raj	ECE/Assistant Professor	Member
5	Mr. S. O. Kaniraj	MECH/Assistant Professor	Member
6	Mrs. M. Jasmine Ananthi	EEE/Assistant Professor	Member
7	Ms. S. Jenitha Karthiga	MBA/Assistant Professor	Member

***Frequency of Meeting – Twice in a Year.**

ADMINISTRATIVE BODIES

The institution has a well-defined administrative structure that ensures smooth functioning and efficient management. It oversees key areas such as academics, student services, infrastructure, and faculty development, fostering a productive learning environment

Table 10.7: Administrative and Organizational Structure

Sl. No.	Name	Designation	Responsibility
1	Rev. Fr. Dr. J. E. Arulraj Founder (DMI Foundations)	Chairman	Administration
2	Rev. Sr. S. Gnanaselvam	Member	Administration, Managing Trustee
3	Rev. Sr. M. K. Teresa	Member	Administration, Correspondent
4	Rev. Sr. S. Xavier Selvi	Member	Administration, In-charge of Higher Education, DFT Group of Institutions
5	Rev. Sr. Dr. K. Sandhiyagu Mary	Member	Administration, Correspondent, DFT Group of Institutions
6	Dr. N. Nirmal Singh	Professor & ECE Dean	Dean Academics
7	Dr. K.G. Revathi	Professor & ECE Dean	Dean Student Affairs
8	Dr. A. Amala Mithin Minther Singh	Professor & HOD / Mech., Dean	Dean R & D Departmental Academic Work
9	Dr. T. D. Sai Ram	Professor & ECE	Dean Training and Placement
10	Dr. D. R. Denslin Brabin	Professor & HoD / CSE	Dean CSE Departmental Academic Work

11	Dr. R. Senthil Rama	Associate Professor & HOD, EEE	IQAC Coordinator Departmental Academic Work
12	Dr. A. R. Venmathi	Professor & HOD, ECE.	Departmental Academic Work
13	Dr. K. Kalai Kumar	Associate Professor & HOD, IT.	Departmental Academic Work
14	Dr. L. Jimson	Assistant Professor & HOD / AI&ML	Departmental Academic Work, NIRF coordinator
15	Mr. G. Aruna Giri	Assistant Professor, MBA Co-Ordinator	Departmental Academic Work
16	Dr. Y. Raghu	Professor & HOD, S&H	Departmental Academic Work
17	Mrs. V. Vishnu Priya	Professor & HOD, Mathematics	Departmental Academic Work
18	Mrs. S. Chitra Devi	Professor & HOD, Chemistry.	Departmental Academic Work
19	Mr. K. S. Kamaraj	Assistant Professor	NSS / RED CROSS Coordinator
20	Mr. Anto Pathrose	Warden	Boys Hostel Warden
21	Miss. A. Anitha	Warden	Girls Hostel Warden
22	Mr. M. Prakash	Librarian	Library
23	Dr. Uma Maheshwari	Assistant Professor	Entrepreneur Development Cell
24	Mr. I. Kumar	Assistant Professor	Physical Director

GRIEVANCE REDRESSAL COMMITTEE CELL

An exclusive department, led by the Principal and supported by a team of faculty members, is dedicated to addressing student grievances.

- Grievances of students related to academics and personal grievances of students within campus and hostel may be addressed to the committee.
- The tenure of the members shall be two years.
- The quorum for the meeting shall be three including chairperson.
- The committee shall follow the principles of natural justice while considering the grievances of students.
- The committee shall send the report and recommendations to the Management within a period of 15 days of receiving the complaint.
- The following list of members constitutes the Women grievance redressal & POSH committee.

Table 10.8: Grievance Redressal Committee Members

S. No	Name of Faculty	Category	Designation
1	Dr. Sujatha Jamuna Anand	Principal	Chairman
2	Dr. S. Chitradevi	Professor	Member
3	Dr. L. Jimson	Assistant Professor	Member
4	Mrs. V. Nageswari	Assistant Professor	Member
5	Mrs. J. Delphin Cinthiya	Assistant Professor	Member
6	Dr. V. Anbarasan	Assistant Professor	Member
7	Ms. A. Nadera Banu	III–AI&DS	Student representative
8	Mr. RanjithSahoo	III–Mech	Student representative
9	Rev. Fr. Williams	NGO	Ombudsman

***Frequency of Meeting – Bi-Monthly in a Year.**

WOMEN EMPOWERMENT CELL

The Women Empowerment Cell has been active in the college since 2005, dedicated to empowering female students, enhancing understanding of issues related to women, and ensuring a safe campus for female students and faculty members. The cell aims to address womens issues and problems by creating awareness of their rights and duties. It provides a platform for women to share their experiences and views on their societal status and suggest ways to improve and empower themselves. Focused on the intellectual and social upliftment of female students, the cell facilitates women's empowerment through guest lectures, seminars, awareness programs, and other welfare activities. The responsibilities of the Women Empowerment Cell include adhering to the mandatory guidelines and directions of Anna University, Chennai, regarding security arrangements for female students and staff at our institution.

Objectives

- To promote a culture of respect and equality for the female gender.
- To conduct seminars, and workshops to impart knowledge of opportunities and tools available and train the women.
- To create a conducive counselling environment for the female gender to share their problems.

Initiatives

- Educating the teaching and non-teaching staff and students towards gender sensitization.
- Counselling services.
- Provision of opportunities and programs for the female gender to be mentally and emotionally empowered to promote their growth as individuals in their own right.
- Conducting various competitions to encourage their artistic talents for creative thinking
- Gender Audit.

Table 10.9: Women Empowerment Cell Members

Sl. No	Name	Category/Role in the Committee	Designation
1	Dr. Sujatha Jamuna Anand	Ex-Officio Member	Principal
2	Rev. Sr. M. K. Teresa	Management	Correspondent
3	Dr. Immaculate Geetha	Member Secretary	Professor, S & H
4	Dr. K.G. Revathi	Member	Dean- Student Affairs
5	Dr. R. Senthil Rama	Member	HOD/EEE

***Frequency of Meeting – Twice in a Year.**

DISCIPLINE COMMITTEE

Functions of Discipline and Welfare Committee

The main functions of the Discipline and Welfare Committee are as follows,

- Indiscipline in the College campus and hostel premises.
- Complaints of ragging.
- Malpractices in the Examinations
- Complaints of eve-teasing and sexual harassment.
- Any other activity that may damage the discipline and harmony of the College.
- To visit periodically the campus of the College, including the hostels to recommend improvements in amenities and maintenance of students and facilities.

Table 10.10: Discipline Committee Members

S. No	Name	Category/Role in the Committee	Designation
1	Dr. Nirmal Singh N	Member	Dean-Academics
2	Dr. Denslin Brabin D. R	Member	HoD-CSE
3	Dr. Sujatha Jamuna Anand	Ex-Office Member	Principal
4	Dr. Kavitha Dhas M	Member	Senior Faculty
5	Dr. Anbarasan V	Member	Student Counsellor (Staff)
6	Dr. Senthil Rama R	Member	Lady Faculty Member
7	Ms. Anitha A	Member	Warden/Deputy Warden of Girls Hostel
8	Mr. Anto Pathrose	Member	Warden/Deputy Warden of Boys Hostel

***Frequency of Meeting – Bi-Monthly in a Year.**

ANTI-RAGGING COMMITTEE

- Primary responsibility for curbing ragging.
- Ragging adversely impacts the standards of higher education.
- Enrolment in academic pursuits or campus life should not immunize any adult citizen from the penal provisions of the laws of the land.
- Behavioural patterns among students, particularly potential raggers, need to be measured against ragging must deter its recurrence.

Table 10.11: Anti-Ragging Committee Members

Sl. No	Name	Category	Present Designation / Occupation
1	Dr. Sujatha Jamuna Anand	Chairman	Principal
2	Mr. Jayachandran V	Member	Police Department
3	Ms. Thasildhar G	Member	Revenue/ Taluk /Civil Officer
4	Ms. Viji Dali G	Member	Official of NGO
5	Mr. Christopher Ravi S	Member	Representatives of Parents
6	Mrs. Johnsirani R	Member	Representatives of Parents
7	Mr. Freedon Demi C	Member	Representatives of Students
8	Ms. Arudevi C	Member	Representatives of Students
9	Mr. Kumar I	Member	Representatives of Non-Teaching

***Frequency of Meeting – Bi-Monthly in a Year.**

HOSTEL AND TRANSPORT COMMITTEE

The Hostel and Transport Committee at DMICE ensures a safe, comfortable, and efficient living and commuting experience for students. The hostel facilities provide a well-maintained, secure, and hygienic environment, fostering academic and personal growth. Round-the-clock security, Wi-Fi, medical assistance, and nutritious meals contribute to a homely atmosphere. The committee regularly inspects hostel amenities, addressing student concerns promptly.

For transportation, the committee oversees a fleet of well-maintained buses covering key locations, ensuring punctual and safe travel. Strict adherence to safety protocols and periodic vehicle maintenance enhances reliability. The transport services cater to both students and faculty, facilitating smooth academic operations. Regular feedback and route optimization improve efficiency. The committee remains committed to continuous enhancement, aligning with NBA quality standards.

Table 10.12: Hostel Committee Members

S. No	Name	Category	Designation
1	Mr. Anto Pathrose	Member	Boys Hostel Warden
2	Dr. N. Nirmal Singh	Internal Member	Dean Academics
3	Mr. D. Jeba Kingsley	Internal Member	Assistant Professor
3	Miss. A. Anitha	Member	Girls Hostel Warden
4	Mrs. Stella Mary	Internal Member	Assistant Professor
5	Mrs. J. Mary Varsha	Internal Member	Assistant Professor

SC/ST COMMITTEE

The SC/ST Committee ensures inclusivity and equal opportunities for students from Scheduled Castes (SC) and Scheduled Tribes (ST). It addresses grievances, promotes awareness of government policies, and organizes support programs. The committee fosters a discrimination-free campus environment. Regular meetings and initiatives enhance student welfare and academic growth.

Table 10.13: SC/ST Committee

Sl. No	Name	Category	Designation
1	Mr. K. S. Kamaraj	Member	Assistant Professor
2	Ms. Abisha	Member	Student

3	Mr. Victor	Member	Student
4	Mr. Krishnamoorthy N	Member	Assistant Professor
5	Dr. Anbarasan V	Member	Assistant Professor

COMPLAINTS CUM REDRESSAL COMMITTEE

The Complaints cum Redressal Committee ensures a fair and transparent mechanism for addressing grievances within the institution. It handles complaints related to academic, administrative, and student welfare issues, ensuring timely resolution. The committee follows a structured process for investigating and addressing concerns in accordance with institutional policies. Regular meetings are conducted to review grievances and suggest improvements. The committee promotes a harmonious and student-friendly environment by upholding justice and accountability.

Table 10.14: Complaints Cum Redressal Committee Members

Sl. No	Category	Name	Designation
1	Chairperson	Dr. Sujata	Principal
2	Member	Dr. K. G. Revathi	Dean / Student Affairs
3	Member	Mrs. M. Maheswari	Associate Professor
4	Member	Dr. K. Kalai Kumar	Associate Professor
5	Student Representative	Mr. Fedric	IV Year / CSE
6	Student Representative	Ms. Mahalakshmi	IV Year / ECE

***Frequency of Meeting – Every Month in a Year.**

SERVICE RULES

1. PREAMBLE:

1.1. These rules shall be called the DMI College of Engineering, Chennai "Service, Conduct and Leave Rules" (Governing the conditions of service of Teaching and Non-Teaching staff)

1.2. The rules shall come into force from immediate effect.

2. DEFINITION

2.1. College

College means DMI College of Engineering Chennai, established and managed by Society of Daughters of Mary Immaculate & Collaborators.

2.2. Management

Management means the Society of Daughters of Mary Immaculate & Collaborators represented by the Chairman and President.

2.3. Governing Body

Governing Body means the Governing Body of DMI College of Engineering Chennai which has been constituted in accordance with the provisions laid down in this respect by All India Council of Technical Education.

2.4. University

University means Anna University, Chennai - 600025.

2.5. Principal

Principal of the college is the head of the institution authorized by the Management to discharge the duties and responsibilities of the Principal.

2.6. Employee

Employee includes all employees, without exception performing whatsoever function assigned to him/her and is in the whole or part time employment of the College, whether such employment is probationary, temporary, and permanent.

2.7. Teaching Staff

The teaching staff comprise of the following categories.

- Principal
- Deans
- Head of the Department
- Professor
- Associate Professor
- Assistant Professor
- Any other category of post declared so by the Executive Body.

2.8. Non-Teaching Staff

Non - Teaching staff means those categories of staff, that are not categorized under the teaching staff shall be deemed to be non-teaching staff.

2.9. Competent Authority

(a) Chairman/President of the Executive Body in case of Principal

(b) Principal in case of other employees.

2.10. Duty

An employee is considered to be on "duty" for the purpose of service benefits:

- When the employee is discharging the duties of the post to which he/she is appointed or is undergoing training prescribed for the post.
- When the employee is absent from duty on authorized holidays or permitted vacation, or when availing of leave other than extraordinary leave sanctioned by the competent authority.
- When the employee is attending conferences, seminars, or workshops duly permitted by the competent authority.
- When the employee is attending to the work assigned to him/her by the competent authority within the institution.

2.11. Leave

Leave means leave, granted by the appropriate authority to an employee, to which he/she is eligible.

2.12. Pay

Pay means Basic Pay in the time scale or Basic Pay with Dearness Allowance and other Allowances as the case may be.

2.13. Year

Year means Calendar Year/Financial Year/Academic Year as the case may be.

3. APPOINTMENT SELECTION AND PROBATION

3.1. Appointments

The President/ Principal is the competent authority to appoint any employee based on the recommendations of the selection board. The appointment orders shall be issued by the Management.

3.2. Qualifications

The qualifications, age, experience etc., shall be as per AICTE / UGC norms in respect of teaching and non-teaching staff.

3.3. General Procedure of Recruitment (Appointment Rules)

3.3.1. All posts at the Institute shall normally and, as far as possible, be filled by advertisement; but the Governing Body shall have the exclusive power to decide, either on its own or on the recommendations of the Principal, that a particular post be filled by invitation or by promotion from amongst the members of the staff of the College.

All appointments on the staff of the College shall be made only by the Governing Body of the College, through its Chairman or authorized by the Governing Body.

The manpower requirement shall be ascertained based on the desirable norms prescribed by AICTE/University or the appropriate authority from time to time. Additional posts may also be created, as required, for the extension of specific projects and or research and development activities.

3.3.2 The Selection Committee shall include

a. **In the case of recruitment of the Head of the College**

- The Chairman/ President
- The Correspondent
- An Educationist
- The Principal from other Institutions

b. **In the case of recruitment of teaching faculty**

- The Correspondent
- The Principal
- The Head of the Departments of the college,
- A Subject expert/Industrial Expert.

c. **In the case of recruitment of clerical staff/lab assistants**

- The Correspondent
- The Principal
- The Head of the Departments of the college.

d. **In case of recruitment of Maintenance Staff**

- The Correspondent
- The Principal

3.3.3 Selection Procedures

- The following procedure is followed in the selection of faculty members in various departments.
- Heads of Departments (HODs) forward the staff requirement details to the Principal, considering additional workload or staff leaving the institution.
- After consolidating the requirements from various departments, the Principal, with the concurrence of the Correspondent, arranges for publishing advertisements.
- The applications received from candidates are scrutinized by the Heads of Departments. Applicants who meet the qualifications and experience requirements are called for an interview.
- The selection process consists of three stages.
- Screening test.
- Personal interview on technical and general aspects by the Staff Selection Committee
- Final interview by the Principal and Correspondent.
- Appointment orders are issued to the selected candidates after approval by the Governing Council (GC) and receipt of their joining letters.

3.3.4 Conditions of Appointment

- Staff members are entitled to leave as per the institutions rules. They will be subject to the institutions regulations, including those on conduct, discipline, administrative orders, and other directives from DMI College of Engineering that may come into force from time to time.
- Staff members are required to bring their certificates supporting education, professional qualifications, experience, date of birth, and a relieving letter from their immediate past employer, along with one set of copies and one passport-size photograph for records at the time of reporting for verification.

- Staff members are expected to work with high standards, initiative, efficiency, and economy. They will diligently and faithfully apply themselves to the work assigned to them and follow the directions given by their superiors.
- Staff members will be responsible for the safekeeping and return of all college property in their use, custody, or charge, in good condition. The college reserves the right to assess and recover damages for any lost property.
- The general details of duties and responsibilities for staff members will be provided separately by the Principal or Correspondent as needed.
- Staff appointments are contingent on the staff members being declared and remaining medically fit. If they are found medically unfit to continue, they will lose their job. Staff members are expected to serve a minimum of two years; however, unsatisfactory performance may result in termination with one months notice.
- Staff members wishing to leave the institution must provide three months advance notice before the end of the academic year. Acceptance of three months salary in lieu of notice is at the managements discretion. They are expected not to leave during the middle of the academic year.
- Staff members will devote their entire time to their assigned work and will not undertake any other work or business, whether for honorarium or remuneration. Any contravention may result in termination.
- In addition to teaching, staff members are required to actively participate in the colleges development processes, including seminars, workshops, research, publications, fostering the Institute-Industry Interface, and other academic activities. They should also take on additional responsibilities assigned by the Principal, Correspondent, and Chairman as needed.
- Staff members shall not disclose any information regarding the institutions activities, official matters, or any other information without specific authorization from the management.
- If a staff member is found smoking or under the influence of alcohol on campus, the management reserves the right to take appropriate action, and any such action taken shall bind the employee.
- Every employee is expected to conduct themselves under the law of the land. In case of any issue arising out of a violation of such law, the institute will not be responsible in any manner.
- As a token of their acceptance, staff members must sign the duplicate copy of the appointment letter and return it to the Management.

3.4. Probation and Confirmation

- Staff members will be placed under probation for one year from the date of joining. During the probation period, if their attendance, conduct, or work progress is not satisfactory, the employees service may be terminated. The employees appointment will be confirmed after the successful completion of the one-year probation period.
- If an employee wishes to be relieved during the probation period, they must provide three months notice in writing or three months salary, including all allowances, unless the Management grants a relaxation under special circumstances.

3.5. Termination of Service

- If an employee intends to resign after confirmation, they must provide three months notice in writing or three months salary, including all allowances.
- The Management has the power to relax the notice period or salary payment in special circumstances.

3.6. Retirement

Every employee of the College shall retire upon attaining the age of superannuation as provided by regulatory bodies like the AICTE and as enforced from time to time. Extension or re-employment may be granted according to such provisions, at the discretion of the Governing Body, on terms and conditions it deems fit.

4. PROMOTION POLICY FOR FACULTY MEMBERS

4.1. Experience

Experience refers to teaching experience in AICTE-approved engineering institutions. The experience gained by working in companies or industries may also be considered, either partially or fully, by the Management Committee in exceptional cases. This consideration depends on the quality and relevance of the experience to teaching, the nature of the job, the designation or post held, and the reputation of the company or industry at a national or international level. Experience gained in underperforming or poorly reputed companies or industries shall not be considered for any kind of equivalence.

4.2 Promotion

- Every eligible individual is considered for promotion based on departmental requirements by AICTE norms.
- The Staff Selection Committee, comprising the Correspondent, Principal, Heads of Departments, and expert members, reviews their profiles for promotion.

5. STAFF RESPONSIBILITIES

5.1. General Code of Conduct

- Every employee shall adhere to the following code of conduct, which is not exhaustive.
- All faculty members are expected to comply with the institutions rules as updated from time to time.
- Faculty members are required to attend the staff assembly at 7:45 am daily in the College Reception Hall.
- Faculty should arrive at least 15 minutes before classes begin and remain available for student queries after class hours to the extent possible. They should leave the college premises only after ensuring all students have left the classrooms.
- Faculty must be present in the classroom 5 minutes before the scheduled lecture and should only leave after being relieved by another faculty member.
- Faculty members are encouraged to enhance their knowledge through participation in Faculty Development Programs (FDPs), seminars, workshops, and conferences, subject to obtaining necessary permissions from the Principal/HOD. Staff assignments are subject to management discretion as per regulations in force.
- Faculty members are expected to contribute to scholarly publications such as textbooks and research papers in reputable international or Indian journals/conferences.
- Performance evaluation includes self-development through guiding projects and securing project funding.
- Faculty members must continuously upgrade their academic preparation to effectively meet teaching challenges and requirements, thereby benefiting the student community at large. They are also expected to positively influence student personality development and actively engage in assigned or personally interested extracurricular activities.
- All employees must maintain courteous behavior in their interactions with colleagues, students, and the public.
- Employees are expected to demonstrate ideals of national integration, displaying love and concern without discrimination based on caste, creed, or community. Violation of this principle will result in strict disciplinary action, including suspension or termination.
- Feedback from students, both formal and informal, will be collected and provided to faculty members for continuous improvement.
- English is the designated language for communication in both classrooms and on campus.
- Faculty members must avoid any form of groupism. Engaging in such activities will lead to disciplinary proceedings.
- Consumption or distribution of alcohol, drugs, or any intoxicants, including smoking, is strictly prohibited on college premises.
- Faculty must adhere to a formal dress code daily.
- All faculty are required to attend department assemblies with students in the auditorium.
- Cell phone usage is strictly prohibited during working hours within the campus.
- Faculty members should maintain impartiality and cordiality towards students, avoiding overly familiar relationships that may lead to classroom indiscipline.
- Faculty should obtain prior permission from the HOD/Principal before leaving campus during working hours.

5.2. Conduct in the Department

- Teaching loads will be assigned by the HOD based on the faculty member's expertise.
- Once a subject is assigned to a faculty member, they should prepare the lecture along with a lesson plan.
- The lesson plan and course file must be approved by the HOD/Principal. The course file includes a preface, timetable, lesson plan, previous year university question papers, notes, handouts, OHP sheets, test/exam question papers, and three model answer scripts for each test/exam, along with assignments if applicable.
- The faculty members logbook must be regularly updated and available for inspection by the HOD/Principal.
- In addition to teaching, faculty members should undertake additional responsibilities as assigned by the HOD/Principal in academic, co-curricular, or extracurricular activities.
- Every faculty member must deliver a seminar on some topic at least once each semester to other faculty members.
- Faculty members are responsible for maintaining students attendance records. The roll numbers of absentees should be noted daily in the Master Attendance Register maintained in the department immediately after class/laboratory hours.
- When requesting leave, faculty members must obtain prior approval and ensure suitable alternate arrangements are made for class/lab supervision. In emergencies, the HOD or the next senior faculty member must be informed with proposed alternative arrangements.
- Faculty members must keep all files related to their additional responsibilities updated and be prepared for inspection by the HOD/Principal.

5.3. Classroom Teaching

- Faculty members should aim for 100% results in their subjects and plan accordingly.
- Advance preparation for classes is essential to achieve this goal.
- Ideally, faculty members should recap the previous lecture for the first 5 minutes and effectively utilize the remaining 50 minutes for delivering the lecture.
- Use slides/PPTs for complex diagrams and lengthy derivations.
- Utilize practical examples to illustrate concepts effectively.
- Provide relevant website addresses related to the topic for further reference.
- Introduce a few topics and advanced concepts beyond the syllabus to enrich students learning.
- Refer to additional books beyond textbooks and prepare detailed lecture notes as teaching aids. Notes should not be dictated during class.
- Encourage and positively respond to student questions. If unable to provide an immediate answer, commit to addressing it in the next class.
- Conduct regular short tests and ask questions to assess teaching effectiveness and adapt as needed.
- Analyze test results to identify slower learners and provide additional coaching to improve overall university results.
- Revision and coaching classes are crucial for effective exam preparation.
- Record topics covered in each period in the logbook and have them periodically signed by the HoD.
- The faculty member should take care of academically backward students and pay special attention to their needs in special classes.
- In problem oriented subjects, regular tutorials have to be conducted. The tutorial problems have to be handed over to the students at least one week in advance of actual class.
- The faculty member shall give possible 2-mark questions with answers for each unit.
- The faculty member should make himself/herself available for doubt clearance.
- The faculty member should motivate the students and bring out the creativity/originality in the students.
- The faculty member should regularly visit library and read the latest Journals/Magazines in his/her speciality and keep oneself abreast of the latest advancements.
- Quick reference material should be circulated for all the units before the model examinations.

5.4. Laboratory

- Faculty members must be inside the lab 15 minutes before the start of lab classes.
- The faculty member conducting practicals must personally perform experiments and ensure satisfactory results before assigning them to students.
- Additional experiments should be provided whenever possible to further clarify concepts for students.
- Lab observations and records must be corrected immediately after the class.
- Lab classes should follow this structure: 30 minutes for observation, 90 minutes for conducting experiments, and 30 minutes for result verification and viva.
- The lab manual should be updated by the respective faculty member in accordance with the revised syllabus.

5.5. Test/Exam

- When setting question papers, faculty members should also prepare detailed answers and marking schemes, submitting them to the HOD for approval.
- During invigilation, faculty members should continuously patrol the exam room and avoid prolonged sitting in one place. They must closely monitor to prevent any malpractice during exams.
- If any malpractice is observed, faculty members should promptly inform the University Representative/Chief Superintendent (Class Coordinator and relevant HOD for Internal Assessment Test/Model Examination).
- Test papers must be corrected within three days of the examination date, with marks submitted to the HOD along with any necessary remarks for forwarding to the Principal.
- Faculty members should maintain fairness and impartiality when awarding internal marks.
- Faculty members should not decline university assignments such as investigations, evaluations, and participation in orientation programs.
- Faculty members are expected to be available for university duties or internal duties during vacation periods.

5.6. Student-Faculty Relations

- Faculty members should maintain good control over student behaviour.
- Upon entering the class, faculty members should promptly take attendance. Habitual latecomers should be counselled personally, and if the behaviour persists, directed to meet with the class coordinator/HOD.
- Faculty members should handle student insubordination tactfully.
- While being firm, faculty members should avoid harshness and refrain from using words that may hurt students feelings.

6. PROVIDENT FUND AND OTHER BENEFITS

6.1. Provident Fund

An employee becomes eligible for enrollment into the Provident Fund scheme after completing their probation period, as per the Provident Fund Act.

6.2. Other Benefits

- Fee concessions/scholarships will be provided to employees dependents.
- Employees are eligible for enrollment in the ESI (Employee State Insurance) and Medical Insurance scheme after completing their probation period.
- Staff members can avail of benefits such as free transport and subsidized meals at the College mess.

7. LEAVE RULES

7.1. General Rules

- Every employee is entitled to 12 days of Casual Leave per year.

- Accumulation of leave is not permitted.
- Leave Application: Applications must be submitted on the prescribed form well in advance and approved before leave can be taken. Faculty members should arrange internal adjustments among colleagues to ensure continuous student engagement.
- Leave cannot commence without prior sanction. Mere submission of an application does not authorize leave. Unauthorized leave may result in disciplinary action and penalties.
- Engaging in alternate employment or business for personal gain is prohibited and constitutes an offense.
- Leave requests will not be sanctioned over the phone except in cases of emergencies or sudden illness, which must be promptly regularized in writing upon return.
- All leave applications forwarded to the Principal for approval must include recommendations from the HOD.
- Leave will be granted in accordance with existing leave rules.
- Vacation leave, On Duty leave, or personal leave cannot be availed during the notice period.

7.2. Kinds of Leave

Provisions exist for the following types of leave

7.2.1. Casual Leave (CL)

- Each employee is entitled to 1 day of Casual Leave per month, up to a maximum of 12 days per calendar year.
- Casual Leave cannot be carried forward to the next academic year and lapses thereafter.
- No compensatory leave will be granted if an employee is on leave during an institution-declared holiday.
- Late arrival on three occasions in a month result in a deduction of half a day of Casual Leave.

7.2.2. Restricted Holidays (RH)

- The Institute will declare a list of restricted holidays. Employees may avail themselves of any one day from the total RHs declared in a full academic year.
- Restricted Holidays cannot be accumulated and lapse at the end of the year.

7.2.3. Medical Leave (ML)

- Medical leave may be granted in case of employee sickness (not for dependents).
- A medical certificate from a doctor is required for absences of three days or more.

7.2.4. Leave Without Pay (LWP)

- There is no provision for the grant of Leave Without Pay.
- In exceptional circumstances beyond ones control, LWP may be granted at the discretion of the Director.
- Absence without sanctioned leave is considered indiscipline and does not fall under this category.
- LWP must be sanctioned in advance like any other leave.

7.2.5. Duty Leave / On Duty (OD) Leave

- OD Leave may be granted for activities that bring recognition to the College or are required for University work.
- OD cannot be availed without prior approval from the Principal and does not allow for post facto approval.
- Normally restricted to a maximum of ten days per academic year, but may be extended with competent authority approval.
- Conditions include a written request from the competent authority and acceptance of the paper for presentation.
- Examples include delivering academic lectures, attending University/College assignments during holidays, presenting research papers, or attending Quality Improvement Programs (QIPs) with Principal authorization.
- Other special cases may be considered on merit by Management based on Principals recommendation.
    1. **Maternity Leave (ML)**

- Women employees with more than one year of service are eligible for maternity leave.
- A valid medical certificate from a competent doctor must accompany the leave application.
- Maternity leave can be granted for up to 3 months (for a maximum of two children). One months salary will be paid upon return to duty.

7.2.7. Marriage Leave (MGL)

- Confirmed staff are entitled to one weeks leave (including Saturday and Sunday) if their marriage falls on working days.
- Employees may also receive a marriage gift from management.

7.2.8. Permission (P)

- Emergency permission for one hour in the morning or evening may be granted if notified before working hours.
- A maximum of two such permissions will be granted per month.

10.1.3 Decentralization in working and grievanceredressal mechanism (10) Institute Marks : 10.00

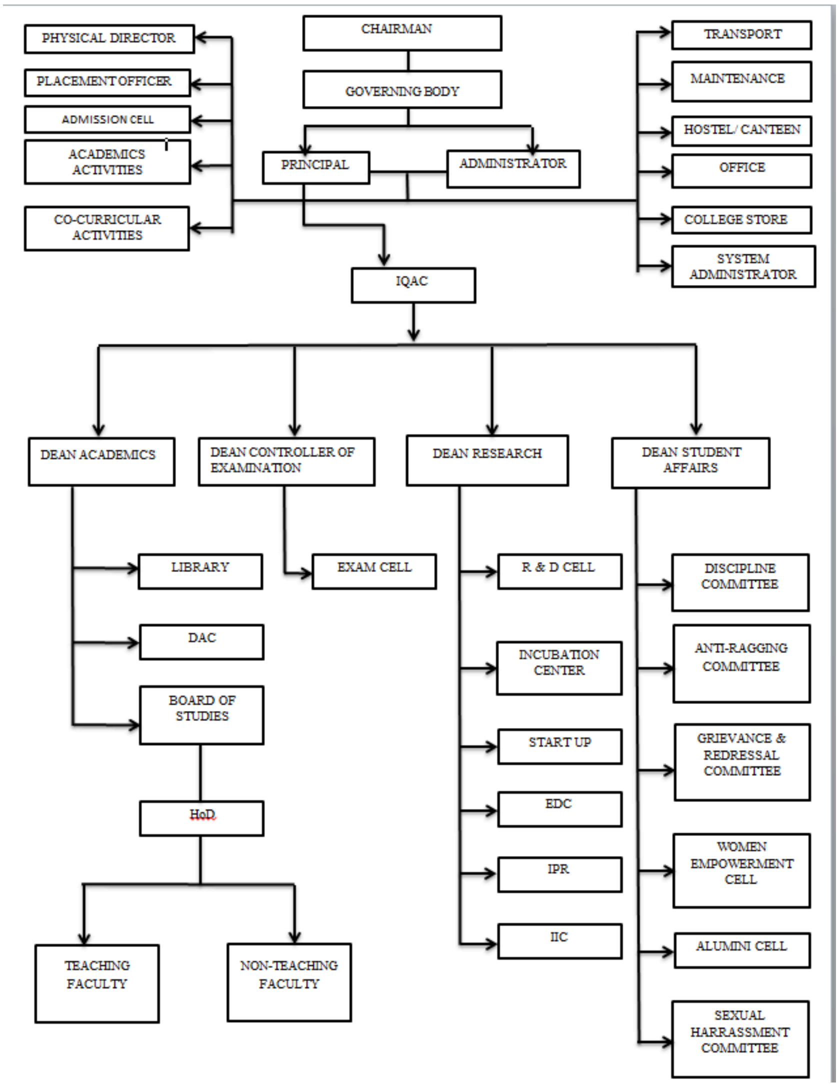


Figure 10.3: Organization Chart

Decentralization

- The Governing Council meets annually to establish general guidelines.
- The Principal has full academic freedom to manage the institution within these guidelines.
- IQAC monitors and ensures the maintenance of academic quality in the college.
- Deans and Heads of Departments (HODs) are entrusted with authority and responsibility for student and faculty development.
- Weekly meetings between Deans, HODs and the Principal address various institutional, departmental, and student-related matters.
- Developments are discussed, and decisions are made accordingly.
- Each department plans its non-recurring and recurring expenditures, submitting budgets for approval. HODs oversee various purchases through the purchase committee.

PRINCIPAL

The Principal is the academic and administrative head of the institution and all staff report to him directly or indirectly through the Department Head appointed by him. He represents the institution to the outside world and is responsible for elevating the image of the institution by planning, controlling and monitoring every activity of the Institution.

Duties And Responsibilities

- Implementing the Vision & Mission of the Institution
- Identifying long range & short range goals for every year
- Preparing a road map for achieving the goals
- Planning & implementing Image Building of the Institution
- Developing Infrastructure as per the requirements of AICTE, Anna University and NBA
- Consolidating annual budget proposals received from departments & presenting the same in the governing council for approval and sanction
- Consolidating faculty requirements for the academic year and complete the recruitment process one month before the commencement of the semester
- Developing Norms & Standards for promotion, Increments, Incentives and make them transparent to all concerned
- Appointing conveners of various committees for the academic year by 15th may and collect the action plan/schedule by 30th may
- Realizing the academic calendar/action plan based on inputs from the University, departments & conveners of various committees
- Constituting committees & nominate conveners for all college programmes as and when required
- Maintaining a file for each faculty as a record of personal information and professional achievements
- Convening the HOD meeting, once in 15 days with a predefined agenda & communicating the minutes to all concerned. Also, a staff meeting to be conducted at the beginning of the semester
- Reviewing the reports of Class Committee Meetings, Staff meetings of Departments and any other committee meetings (academic & non-academic) held in the Institution and the subsequent follow-up actions
- Reviewing the results and taking appropriate measures along with HODs to enhance the percentage of result
- The principal is the signing authority of all correspondences with approving and affiliating bodies, Government agencies, vendors act
- In the absence of the Principal, one of the Vice Principals is nominated by the Principal will act as the in-charge

- To act as development head in all the image-building process.
- To prepare the road map to put up the centre of excellence, incubation centre and all the technical bodies and activities.

IQAC

- Coordinate the accreditation of all institute programs periodically by agencies like NBA and NAAC.
- Constitute the Internal Quality Assurance Cell (IQAC) as per UGC/NAAC guidelines, in consultation with the Principal, Deans, and HoDs.
- Prepare proposals for AICTE and UGC approvals, setting clear targets and deadlines.
- Lead IQAC activities to ensure quality across all areas of institute operations.
- Develop a vision document for the institute by engaging key stakeholders and faculty members at all levels.
- Collect and analyze feedback from students, internal stakeholders, industries, and parents; conduct exit surveys for outgoing batches and tracer studies for alumni.
- Regularly update feedback formats and questionnaires for internal and external stakeholders.
- Design faculty assessment schemes and recommend awards for outstanding performance.
- Initiate departmental and institutional grading processes and analyze and declare results.
- Periodically revisit and update the institute's Vision and Mission statements.
- Benchmark institute processes and systems against best practices.
- Conduct periodic external academic and process audits.
- Prepare and publish the annual Internal Quality Assurance Report.
- Conduct employability surveys and provide feedback to departments for improvements.
- Plan soft skills training programs based on survey findings, in coordination with the Dean of academics and the Dean of student affairs.
- Prepare proposals for the continuation of Autonomy in collaboration with the Dean of Academics.
- Ensure timely implementation of Outcome-Based Education (OBE) across all programs.
- Undertake any additional responsibilities assigned by the Principal.

DEANS

Dean- Academics

- Plan and oversee the academic affairs of the institution.
- Publish the Academic Calendar.
- Identify training needs for staff and students.
- Ensure an effective teaching-learning process.
- Compile and present semester-wise and annual academic performance reports to the Academic Council and Board of Governors (BoG), assisted by the Controller of Examinations.
- Ensure compliance with NBA standards and prepare the necessary documentation.
- Conduct periodic monitoring of academic processes.
- Assign academic responsibilities to faculty members.
- Evaluate and analyze financial statements and assist the Principal in preparing the budget, addressing program-wise and department-wise financial needs and trends.
- Manage external communications with regulatory bodies such as UGC, AICTE, and other organizations, in coordination with the Principal and relevant Deans.
- Assist the Principal in developing alliances and associations with various stakeholders, and coordinate with departments to schedule meeting agendas and ensure compliance with deliverables.
- Represent the institute at meetings with internal and external stakeholders, as directed by the Principal.
- Assist with faculty/staff recruitment, promotions, and compliance with statutory requirements.
- Perform any other duties assigned by the principal in the institutes interest.

Dean- Training and Placement

- Develop and execute the placement strategy.
- Develop and maintain a corporate database, and communicate with industries to optimize placements.
- Conduct pre-employment assessment tests for campus-eligible students.
- Maintain a student resume bank and organize development programs focused on aptitude and soft skills.
- Develop and maintain effective communication with stakeholders, corporate partners, campus-eligible students, and institute authorities.
- Schedule, plan, coordinate, and execute the campus recruitment process based on the prevailing hiring scenario.
- Roll out and monitor the campus recruitment process in coordination with the Training and Placement (T&P) committee.
- Ensure smooth completion of student selection and joining formalities in coordination with employers.
- Assist in publishing job, placement, and internship opportunities through newsletters and other communications.
- Provide accurate data and maintain records regarding student placements.
- Attend corporate meetings and seminars for professional development.
- Organize on-campus and off-campus placement interviews.
- Arrange industry visits and training programs for students throughout the academic year.
- Coordinate expert lectures on technical and general topics for students.
- Oversee training programs for both technical and non-technical staff.
- Maintain the database of alumni, including those recruited or pursuing higher studies, for future communication and updates.
- Perform any additional duties assigned by the Principal in the interest of the institute.

Dean – Student Affairs

- Organize student counselling and act as a liaison between students and other stakeholders.
- Maintain, monitor, and enforce disciplinary policies related to students and faculty.
- Recommend students for institutional opportunities such as fellowships, scholarships, medals, and prizes, and establish regulations for their awards.
- Assist in maintaining discipline and work ethos across departments, and supervise faculty discipline and commitment.
- Coordinate with presidents of student societies and clubs regarding extracurricular activities.
- Ensure proper conduct of co-curricular and extracurricular activities through respective in-charges.
- Oversee amenities such as the canteen, transport, and clubs through respective in-charges.
- Address and resolve student suggestions and complaints.
- Coordinate with counsellors for SC/ST students and other support services.
- Collaborate with NCC, NSS, anti-ragging squad, Grievance Redressal Cell, Student Exchange Program Cell, and Equal Opportunity Cell.
- Implement and support the goals set by the Principal and Management.
- Perform any other duties assigned by the Principal.

Dean- Research

- Facilitate research scholars through the entire PhD process, from admission to thesis submission, in coordination with HoDs.
- Enhance research activities by motivating faculty, overseeing funded projects (AICTE, DST, UGC), and maintaining relevant office records.

- Develop and implement R&D strategies, policies, and goals aligned with NIRF and other ranking standards.
- Create support schemes for faculty, students, and researchers to achieve R&D goals effectively, focusing on originality and significance.
- Disseminate information about funded R&D projects and encourage quality proposal submissions with guidance.
- Coordinate with Institute leadership, Deans, and HoDs to promote research excellence.
- Develop strategies to increase internal revenue through consultancy and research, ensuring financial stability.
- Review consultancy proposals, assign them to relevant faculty experts, and form committees to prioritize them as needed.
- Approve and coordinate honorarium distribution for consulting faculty and staff according to institute policies.
- Regularly review and update the Institute’s R&D guidelines and honorarium norms.
- Collaborate with the Dean of Academics to monitor PhD scholars progress.
- Engage with organizations, industries, and research labs to explore and approve collaborative research opportunities and MoUs.
- Build interdisciplinary research networks across technological domains.
- Encourage intellectual property protection and organize IPR awareness events.
- Develop policies to support faculty and students in R&D activities, including conferences, memberships, and research funding.
- Establish metrics to quantify research activities and prepare annual R&D reports.
- Promote technology-enabled startups and entrepreneurial initiatives.
- Support the creation of project studios, maker spaces, and innovative labs.
- Manage the R&D budget, ensuring proper allocation and usage.
- Perform any additional duties assigned by the Principal.

Controller Of Examinations

- Oversee the effective functioning of the Examination branch and report to the Principal.
- Prepare and propose examination regulations and rules for approval.
- Plan and arrange for the conduct of examinations, evaluation, and declaration of results in advance.
- Delegate and supervise responsibilities within the Examination branch.
- Coordinate with Heads of Departments (HODs) to ensure smooth operation of the examination system.
- Adhere to academic regulations and calendars.
- Maintain confidentiality of all examination-related matters.
- Secure examination data with proper backup on the server.
- Handle malpractice cases according to established procedures.
- Ensure timely issuance of grade cards to candidates.
- Document all financial transactions related to examinations.
- Address issues related to examination reforms.
- Safeguard all-important examination registers and records.
- Organize Results Committee meetings to facilitate timely declaration of results.
- Ensure results are declared within 2-4 weeks after examinations.
- Serve as the Member Secretary of Examination Committees.
- Perform additional duties as assigned by the Principal.

Head of the Department

- Review syllabus coverage, monitor teaching progress, and ensure the maintenance of laboratory resources.
- Implement college policies and procedures within the department.
- Ensure effective teaching and learning, and propose suitable methods for student assessments.
- Create a conducive academic environment and monitor student growth.
- Counsel students and organize parent-teacher meetings.
- Analyze student feedback, take corrective measures, and motivate faculty for improved performance.
- Recommend outstanding faculty for recognition to higher authorities.
- Submit staff appraisal reports to the Principal.
- Oversee the maintenance and inventory of equipment, furniture, and departmental resources.
- Conduct annual verification of departmental labs and stores, preparing lists for write-offs and obsolescence removal.
- Enhance faculty skills through Career Development Programs and encourage participation in FDPs at premier institutions.
- Build connections with industries, professional bodies, and alumni for department growth.
- Foster collaborations with industry for labs, internships, co-teaching initiatives, and sponsored research.
- Motivate faculty to engage in outreach activities that benefit the department, students, and society.
- Support professional development through participation in FDPs, conferences, and skill development programs.
- Design and implement a departmental co-curricular activity calendar in line with the academic calendar.
- Encourage students to pursue higher studies or entrepreneurship.
- Plan industrial tours, training sessions, and bridge courses, coordinating with industries for permissions and MOUs.
- Prepare and manage the departmental budget with input from faculty, ensuring effective utilization.
- Organize departmental seminars, workshops, and conferences annually.
- Streamline documentation for accreditation and quality processes like ISO, NBA, and NAAC.
- Manage recruitment for vacant teaching positions within the department.
- Request and coordinate procurement of books and resources for the department library.
- Prepare a departmental newsletter each semester summarizing activities and achievements.
- Compile the annual progress report of the department with relevant data for institute-wide reports.
- Maintain comprehensive records of departmental activities and achievements.
- Perform additional duties assigned by the Principal.

GRIEVANCE REDRESSAL COMMITTEE CELL

An exclusive department, led by the Principal and supported by a team of faculty members, is dedicated to addressing student grievances.

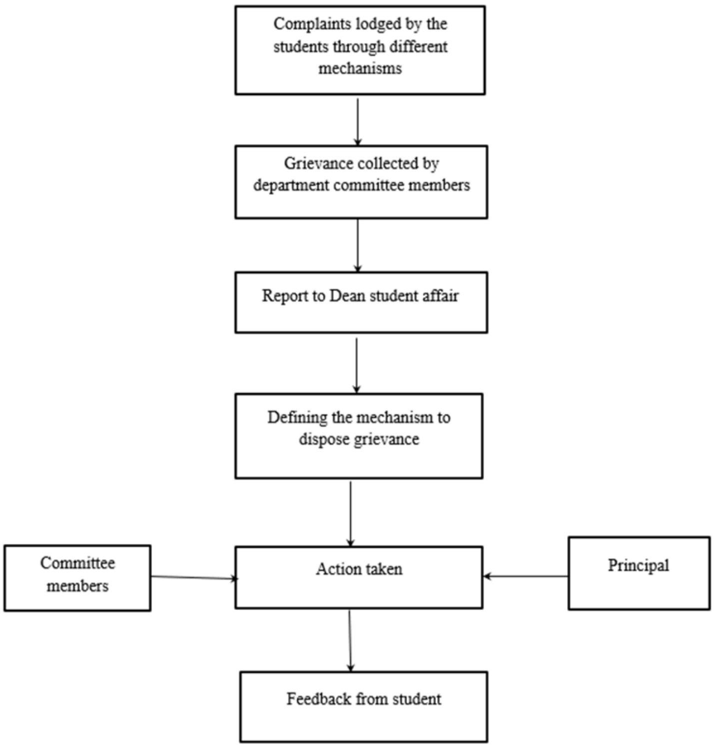


Figure 10.4: Grievance Disposal Mechanism

- Grievances of students related to academics and personal grievances of students within campus and hostel may be addressed to the committee.
- The tenure of the members shall be two years.
- The quorum for the meeting shall be three including chairperson.
- The committee shall follow the principles of natural justice while considering the grievances of students.
- The committee shall send the report and recommendations to the Management within a period of 15 days of receiving the complaint.
- The following list of members constitutes the Women grievance redressal & POSH committee.

Table 10.15: Grievance Redressal Committee Members

S. No	Name of Faculty	Category	Designation
1	Dr. Sujatha Jamuna Anand	Principal	Chairman
2	Dr. S. Chitradevi	Professor	Member
3	Dr. L. Jimson	Assistant Professor	Member
4	Mrs. V. Nageswari	Assistant Professor	Member
5	Mrs. J. Delphin Cinthiya	Assistant Professor	Member
6	Dr. V. Anbarasan	Assistant Professor	Member
7	Ms. A. Nadera Banu	III–AI&DS	Student representative
8	Mr. RanjithSahoo	III–Mech	Student representative
9	Rev. Fr. Williams	NGO	Ombudsman

***Frequency of Meeting – Bi-Monthly in a Year.**

Function of the Grievance Redressal Cell

- Helps students by providing solutions to address their grievances.
- Ensures that all staff members act responsibly when handling student's issues.
- Acts as an intermediary between students and departments to resolve academic and administrative problems.

Facilities Provided by the Cell

- Suggestion box is available in the college.
- Conference room where the grievance redressal committee can meet to discuss and review grievances.

Roles and Responsibilities of the Cell:

Coordinator

- Ensures the proper resolution of students academic and administrative issues.
- Facilitates communication between the students and departments to address grievances.
- Handles all grievances with discretion, maintaining confidentiality.
- Provides students with clear guidance to resolve their concerns.

Member

- Updates authorities about the number of grievances resolved and any pending cases.
- Informs departments about the grievance redressal system.
- Takes immediate action on grievances once they are received in writing.
- Facilitates communication between students and departments to address grievances.

10.1.4 Delegation of financial powers (10) Institute Marks : 10.00

Financial powers are delegated to the Principal, Heads of Departments and relevant in-charges.

The Delegated financial power is as follows

Table 10.16: Delegation of Financial Powers

Sl. No	Financial funds allotted for	Amount Allotted	Mode of Transfer	Remarks
1	Principal	25000	Cash	Every Individual maintains a separate file
2	Head of the Department	10000	Cash	
3	Administrator	15000	Cash	
4	Examination Cell	5000	Cash	The allotted amount is revived after submitting the file
5	TPO	10000	Cash	

Utilization of financial powers for each of the assessment years

- All the above mentioned delegated financial power authorities maintain the separate file.
- The allotted amount is revived after submitting the file to the accounts department.

10.1.5 Transparency and availability of correct/unambiguous information in public domain (5) Institute Marks : 5.00

Information on the policies, rules, processes is to be made available on web site

- The College ensures transparency & availability of correct information in our college website by URL http://www.dmice.ac.in (http://www.dmice.ac.in/) is available from which the latest information & happenings of the Institution can be accessed.
- Intranet facility is available, through which the information can be accessed across the institution.
- The norms, procedures, circulars & all other updated relevant information are available on the college website.
- The Vision and Mission statements are disseminated to all the stakeholders of the programs through faculty meetings, workshops, student induction programs, and parent meetings.

Dissemination of the information about students, faculty and staff

- Institute-specific information is made available through the institution’s website. www.dmice.ac.in
- Faculty and students achievements are made available in the institution’s website. www.dmice.ac.in
- A copy of the regulations handbook is distributed to every student at the time of admission or on the reopening day.
- The regulation handbook has the complete details of attendance requirements, procedure for internal assessment evaluation and eligibility for qualifying for the award of degree etc.
- The individual copy of the Academic Calendar with the list of holidays, schedule of tests and end-semester examinations is distributed to the students during the first week of the Academic year.
- The student attendance statement is displayed on the department notice board every month.

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30) Total Marks 30.00

Summary of currentfinancial year’s budget and actual expenditure incurred(for the institution exclusively)in the three previous financial years :

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3
CFY : (Current Financial Year),
CFYm1 : (Current Financial Year minus 1),
CFYm2 : (Current Financial Year minus 2) and
CFYm3 : (Current Financial Year minus 3)

Table 1 - CFY 2024-25

Total Income 134357079.00				Actual expenditure(till…): 121564504.00			Total No. Of Students 1510
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
127011640.00	0	0	7345439.00	109967080.00	11597424.00	0	80506.29

Table 2 - CFYm1 2023-24

Total Income 128468500.00				Actual expenditure(till…): 117173604.10			Total No. Of Students 1418
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
110101009.00	0	0	18367491.00	107507049.22	9666554.88	0	82633.01

Table 3 - CFYm2 2022-23

Total Income 124246183.92				Actual expenditure(till…): 110700397.09			Total No. Of Students 1369
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
102101893.00	0	0	22144290.92	96974856.09	13725541.00	0	80862.23

Table 4 - CFYm3 2021-22

Total Income 86243567.48				Actual expenditure(till…): 75340159.51			Total No. Of Students 1208
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
49190712.00	0	0	37052855.48	66148777.07	9191382.44	0	62367.68

Items	**Budgeted in 2024-25**	**Actual Expenses in 2024-25 till**	**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**
Infrastructure Built-Up	0	0	0	0	0	0	0	0
Library	1005375.00	86120.00	1800000.00	1727751.88	1820000.00	1803979.00	229844.00	308703.00
Laboratory equipment	1239000.00	3295129.00	20000.00	15000.00	5053000.00	5004707.00	1450000.00	1438635.00
Laboratory consumables	3375750.00	1687423.00	900000.00	834928.00	850000.00	882615.00	340000.00	29156.00
Teaching and non-teaching staff salary	66764584.00	63534900.00	65400000.00	63806503.00	57900000.00	55738102.54	41819299.00	43168337.16
Maintenance and spares	11457067.90	11229836.00	20090000.00	20239173.00	17300000.00	17110265.41	9251644.00	9722676.59
R&D	4978500.00	739662.00	4922121.60	4871778.60	1700000.00	1394940.64	419918.00	427062.00
Training and Travel	2293135.00	890664.00	1600000.00	1276025.00	870000.00	815531.00	776186.00	173975.00
	8016555.00	7979138.00	6644100.00	6590479.00	7108000.00	6893755.00	483655.00	7042335.44
Others, specify	28017976.40	32121632.00	21328000.00	17811965.62	26955000.00	21056501.50	33261557.00	13029279.32
Total	**127147943.30**	**121564504.00**	**122704221.60**	**117173604.10**	**119556000.00**	**110700397.09**	**88032103.00**	**75340159.51**

10.2.1 Adequacy of budget allocation (10) Institute Marks : 10.00

The annual budget of DMI College of Engineering is formulated based on the specific needs and requirements of each department, considering factors such as student intake, laboratory and infrastructure development, and the adoption of the latest technologies. Each department prepares formal budget estimates, which are then reviewed in a Heads of Departments (HODs) meeting with the Principal.

Following deliberations, the departmental budgets may be revised before being forwarded to the Principal for the preparation of the final college-level budget. The finalized budget is then submitted to the Management for approval. The Management approves the proposed budget. The budget allocation and utilization over the past three years have been adequate, ensuring smooth academic and administrative operations while supporting institutional growth and development.

Financial year	Approved Budget In Lakhs (Rs.)	Adequate/Non-Adequate
2024-25	1271.48	Adequate
2023-24	1227.04	Adequate
2022-23	1195.56	Adequate
2021-22	880.32	Adequate

10.2.2 Utilization of allocated funds (15)

Institute Marks : 15.00

The College Management allocates funds, and Department Heads are informed about the amount assigned to their budget proposals. Major activities such as construction, infrastructure upgrades, procurement and maintenance of shared utilities, and furniture purchases are directly managed by the College Management. Requests for lab equipment, upgrades to existing lab facilities, and consumable purchases are initiated by the respective departments, with funds released on a case-by-case basis by the colleges accounts office upon Management approval. Over the past three years, the budget has been used for staff salaries, infrastructure development, equipment purchases, consumables, contingencies, travel, and other expenses. Almost all of the funds allocated by the management have been efficiently utilized by the institution during this period.

Institute level-Utilization of the Budget (%)

Financial year	Budget Allocation In Lakhs (Rs.)	Actual Expenditure In Lakhs (Rs.)	Percentage of utilization
2024-25	1271.48	1215.65	95.61 %
2023-24	1227.04	1171.74	95.49 %
2022-23	1195.56	1107.00	92.59 %
2021-22	880.32	753.40	85.58 %

10.2.3 Availability of the audited statements on the institute's website (5)

Institute Marks : 5.00

Yes.

URL: http://www.dmice.ac.in

10.3 Program Specific Budget Allocation, Utilization (30)

Total Marks 30.00

Institute Marks :

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3
CFY: (Current Financial Year),
CFYm1 : (Current Financial Year minus 1),
CFYm2 : (Current Financial Year minus 2) and
CFYm3 : (Current Financial Year minus 3)

Table 1 :: CFY 2024-25

7411232.08		Actual expenditure (till…): 7080057.00		Total No. Of Students 172
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
26,52,766.50	47,58,465.58	40,01,797.70	30,78,259.30	41163.12

Table 2 :: CFYm1 2023-24

5450424.32		Actual expenditure (till…): 5404168.65		Total No. Of Students 167
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
38,000.00	54,12,424.32	43,280.53	53,60,888.12	32360.29

Table 3 :: CFYm2 2022-23

5090000.00		Actual expenditure (till…): 4982354.81		Total No. Of Students 169
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
10,31,000.00	40,59,000.00	10,29,945.90	39,52,408.91	29481.39

Table 4 :: CFYm3 2021-22

2437068.90		Actual expenditure (till…): 2362401.12		Total No. Of Students 128
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
3,13,519.30	21,23,549.60	2,94,742.80	20,67,658.32	18456.26

Items	Budgeted in 2024-25	Actual Expenses in 2024-25 till	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
Laboratory equipment	247800.00	659025.80	4000.00	3000.00	1010600.00	1000941.40	290000.00	287727.00
Software	0	0	0	0	0	0	0	0
Laboratory consumable	1012725.00	506226.90	90000.00	83492.80	85000.00	88261.50	34000.00	2915.60
Maintenance and spares	2291413.58	2245967.20	4018000.00	4047834.60	3460000.00	3422053.08	1850328.80	1944535.32
R & D	995700.00	147932.40	984424.32	974355.72	340000.00	278988.13	83983.60	85412.40
Training and Travel	458627.00	178132.80	320000.00	255205.00	174000.00	163106.20	155237.20	34795.00
	2404966.50	3342771.90	34000.00	40280.53	20400.00	29004.50	23519.30	7015.80
Total	**7411232.08**	**7080057.00**	**5450424.32**	**5404168.65**	**5090000.00**	**4982354.81**	**2437068.90**	**2362401.12**

10.3.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

Financial year	Approved Budget In Lakhs (Rs.)	Adequate/Non-Adequate
2024-25	74.11	Adequate
2023-24	54.50	Adequate
2022-23	50.90	Adequate
2021-22	24.37	Adequate

10.3.2 Utilization of allocated funds (20)

Institute Marks : 20.00

Department level-Utilization of the Budget (%)

Financial year	Budget Allocation In Lakhs (Rs.)	Actual Expenditure In Lakhs (Rs.)	Percentage of utilization
2024-25	74.11	70.80	95.53 %
2023-24	54.50	54.04	99.15 %
2022-23	50.90	49.82	97.89 %
2021-22	24.37	23.62	96.94 %

10.4 Library and Internet (20) Total Marks 20.00

10.4.1 Quality of learning resources (hard/soft) (10)

Institute Marks : 10.00

The central library is housed in an area of 1,371 sqm. with the reading space of 400 square feet. It has a seating capacity of 100. Library functions from 8.00am to 5.00 pm on all working days and 8.00am to 3.00 pm on holidays.

10.4.1. Quality of Learning Resources (hard/soft)

Relevance of available learning resources including e-resources.

- The library holds a good stock of text books, popular reference books in the field of various disciplines of Engineering, Science & Humanity and Management which includes the books mentioned in the prescribed syllabus of the affiliating university.
- The library houses a digital library section, where e-books and resources like NPTEL Videos etc. are made available. A minimum of 50 students makes use of the facilities available in the digital library on daily basis.
- The library subscribed to IEL Online, DELNET Online journals in addition to Print Journals.

The details of the number of books on Engineering subjects available department-wise are

Table 10.22: Library Book Details

SL.NO.	DEPARTMENT	TITLES	VOLUME
1	CSE	1915	8015
2	ECE	1799	7880
3	EEE	1741	5866
4	IT	1299	5803
5	MECH	1697	5320
6	SCIENCE & HUMANITIES	920	3696
7	MBA	924	3803
8	AI&DS	62	310
9	AL&ML	30	143
TOTAL		**10387**	**40836**

The library also houses popular technical journals and magazines in various disciplines of Engineering and Management with the purpose of furthering the knowledge of the students on the latest technological trends and innovations. The details of journals in subscription in Engineering and Management are listed in the Annexure.

Table 10.23: Print Journals Count

Sl. No.	Department	Journals (Print)	Year
1	CSE	6	2024–2025
2	ECE	5	2024–2025
3	EEE	6	2024–2025
4	IT	6	2024–2025
5	MECH	6	2024–2025
6	MBA	7	2024–2025

Table 10.24: Print e-Journals Count

<table>
<tr><th>Sl. No.</th><th>Year</th><th>Journal (e-journal)</th><th>Count</th></tr>
<tr><td rowspan="3">1</td><td rowspan="3">2022–2023</td><td>IEEE-E-JOURNAL</td><td>221</td></tr>
<tr><td>DELNET E-JOURNAL</td><td>980</td></tr>
<tr><td>SPRINGER NATURE E-JOURNAL</td><td>194</td></tr>
<tr><td rowspan="3">2</td><td rowspan="3">2023–2024</td><td>DELNET E-JOURNAL</td><td>1085</td></tr>
<tr><td>SPRINGER NATURE E-JOURNAL</td><td>226</td></tr>
<tr><td>ASME E-JOURNAL</td><td>33</td></tr>
<tr><td rowspan="4">3</td><td rowspan="4">2024–2025</td><td>DELNET E-JOURNAL</td><td>1120</td></tr>
<tr><td>SPRINGER NATURE E-JOURNAL</td><td>254</td></tr>
<tr><td>NATIONAL DIGITAL LIBRARY OF INDIA</td><td>636</td></tr>
<tr><td>STATE DIGITAL LIBRARY OF INDIA</td><td>48</td></tr>
</table>

Access to the students

The students can have access to the learning materials available in the library either during their allotted period in a day or after 3.30 pm daily. The library functions up to 5 pm in the evening.

Support to students for self-learning activities

The students are provided with the learning materials such as video lectures on various engineering topics delivered by eminent academicians from the national institutes of excellence namely IITs and IISc through NPTEL.

The Library subscribed to IEL Online, DELNET Online journals in addition to Print Journals.

Each department maintains a hard disc containing these lectures and other study material for use by the students. The students are allowed to take copies of these resources in their devices. Apart from this the class notes and answers to the questions in the question bank and university questions are uploaded in the college portal.

10.4.2 Internet (10) Institute Marks : 10.00

Name of the Internet provider	Tata TeleServices
Available band width	500 mbps
WiFi availability	Yes
Internet access in labs, classrooms, library and offices of all Departments	Yes
Security arrangements	Yes (Firewall Installed)

Annexure I

(A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

1. **Engineering Knowledge :** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)

PSO1	Analytical Thinking: Identify, formulate and solve engineering problems by applying mathematical foundations and algorithmic principles in IT environment to meet challenges.
PSO2	Principles of Information Technology: Analyze, design and develop Software, Multimedia, Web Applications and Networking Technologies for an efficient design of Information based systems with high professional skills.
PSO3	Engineering Ethics: Understand best practices, ethical standards and replicate the same for the industry, research and social needs.

Declaration

The head of the institution needs to make a declaration as per the format given -

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes hall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute willbe initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute
DR SUJATHA JAMUNA
Name : ANAND
Designation : PRINCIPAL
Signature :

Seal of The Institution :

DMI COLLEGE OF ENGINEERING
Palanchur, Chennai-600 123

Place : CHENNAI
Date : 21-02-2025 12:17:17