

A.M. Reddy Memorial College of Engineering and Technology

Computer Science and Engineering

Part A : Institutional Information

1 Name and Address of the Institution

A.M. Reddy Memorial College of Engineering and Technology,
Vinukonada Road, Petlurivaripalem, Narasaraopet

2 Name and Address of Affiliating University

Jawaharlal Nehru Technological University Kakinada

3 Year of establishment of the Institution:

2007

4 Type of the Institution:

<input type="checkbox"/> University	<input type="checkbox"/> Autonomous
<input type="checkbox"/> Deemed University	<input checked="" type="checkbox"/> Affiliated
<input type="checkbox"/> Government Aided	

5 Ownership Status:

<input type="checkbox"/> Central Government	<input type="checkbox"/> Trust
<input type="checkbox"/> State Government	<input checked="" type="checkbox"/> Society
<input type="checkbox"/> Government Aided	<input type="checkbox"/> Section 25 Company
<input checked="" type="checkbox"/> Self financing	<input type="checkbox"/> 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
A.M. Reddy Memorial College of Pharmacy	2004	B. Pharmacy, M.Pharmacy	Vinukonda Road Petlurivaripalem, Narasaraopet, Palnadu Dist, Andhra Pradesh- 522601

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

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Computer Science and Engineering	UG	2008	2008	60	Yes	90	Applying first time	--	--	Yes	4
Sanctioned Intake for Last Five Years for the Computer Science and Engineering											
Academic Year						Sanctioned Intake					
2024-25						90					
2023-24						90					
2022-23						60					
2021-22						60					
2020-21						60					
2019-20						120					

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Computer Science and 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)	73	73	76	76	80	80
Faculty in Engineering (Female)	21	21	23	23	24	24
Faculty in Maths, Science & Humanities (Male)	13	13	11	11	11	11
Faculty in Maths, Science & Humanities (FeMale)	11	11	12	12	14	14
Non-teaching staff (Male)	25	25	22	22	18	18
Non-teaching staff (FeMale)	12	12	10	10	8	8

B. Contractual* Employees (Faculty and Staff):

Items	2024-25		2023-24		2022-23	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	0	0	0	0	0	0
Faculty in Engineering (Female)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (Male)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (FeMale)	0	0	0	0	0	0
Non-teaching staff (Male)	0	0	0	0	0	0
Non-teaching staff (FeMale)	0	0	0	0	0	0

10 Total number of Engineering Students:

Engineering and Technology- UG	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Engineering and Technology- PG	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Engineering and Technology- Polytechnic	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
MBA	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
MCA	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2

Engineering and Technology- UG Shift-1

Items	2024-25	2023-24	2022-23
Total no. of Boys	117	99	80
Total no. of Girls	74	38	33
Total	191	137	113

Engineering and Technology- PG Shift-1

Items	2024-25	2023-24	2022-23
Total no. of Boys	7	9	1
Total no. of Girls	0	1	0
Total	7	10	1

Engineering and Technology- Polytechnic Shift-1

Items	2024-25	2023-24	2022-23
Total no. of Boys	190	214	248
Total no. of Girls	44	44	37
Total	234	258	285

11 Vision of the Institution:

Vision : To cultivate engineers into global leaders equipped with unwavering psychological resilience, profound emotional intelligence, and unwavering ethical integrity.

12 Mission of the Institution:

- MISSION :
- M1: To delivering innovative and immersive educational experiences tailored to the needs of engineering students.
 - M2: To advance research and development through cutting-edge laboratories and state-of-the-art equipment.
 - M3:To nurture a culture of entrepreneurial spirit, fostering creativity and innovation among our engineering graduates.
 - M4: To promoting environmental sustainability and social responsibility by integrating ethical and emotional education into our curriculum.

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

Head of the Institution	
Name	Dr. Ch Mallikarjun
Designation	Professor & Principal
Mobile No.	9866414252
Email ID	principal.amreddyengineering@gmail.com

☒ **NBA Coordinator, If Designated**

Name	Dr. K Sreekar Chand
Designation	Associate Professor
Mobile No.	7013447854
Email ID	amrniqac@amreddyengineering.ac.in

PART B: Criteria Summary

Criteria 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	111.18
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	190.31
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	46.60
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	1000	948

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 : To cultivate engineers into global leaders equipped with unwavering psychological resilience, profound emotional intelligence, and unwavering ethical integrity.								
Mission of the institute	MISSION : M1: To delivering innovative and immersive educational experiences tailored to the needs of engineering students. M2: To advance research and development through cutting-edge laboratories and state-of-the-art equipment. M3:To nurture a culture of entrepreneurial spirit, fostering creativity and innovation among our engineering graduates. M4: To promoting environmental sustainability and social responsibility by integrating ethical and emotional education into our curriculum.								
Vision of the Department	To become a reputed center in computer Science and systems engineering for quality, competency and social responsibility								
Mission of the Department	<table border="1"> <thead> <tr> <th>Mission No.</th><th>Mission Statements</th></tr> </thead> <tbody> <tr> <td>M1</td><td>Providing a strong theoretical and practical education in a congenial environment.</td></tr> <tr> <td>M2</td><td>Providing additional skills and training to meet the current needs of the industry.</td></tr> <tr> <td>M3</td><td>Inculcating ethical values to meet the challenges of life with courage and confidence</td></tr> </tbody> </table>	Mission No.	Mission Statements	M1	Providing a strong theoretical and practical education in a congenial environment.	M2	Providing additional skills and training to meet the current needs of the industry.	M3	Inculcating ethical values to meet the challenges of life with courage and confidence
Mission No.	Mission Statements								
M1	Providing a strong theoretical and practical education in a congenial environment.								
M2	Providing additional skills and training to meet the current needs of the industry.								
M3	Inculcating ethical values to meet the challenges of life with courage and confidence								

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

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	Quality in professionalism, good and ethical conduct, interpersonal skills and adjustable communication to ubiquitous trends in latest technologies
PEO2	Study of real-life troubles to enlarge economically feasible and social suitable solutions of engineering crisis.
PEO3	Developing professional skills among the students and transforming them as effective professionals in programs.

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

Total Marks 10.00

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

(Describe where (websites, curricula, posters etc.) the Vision, Mission and PEOs are published and detail the process which ensures awareness among internal and external stakeholders with effective process implementation)

(Internal stakeholders may include Management, Governing Board Members, faculty, support staff, students etc. and external stakeholders may include employers, industry, alumni, funding agencies, etc.)

A. Adequacy in respect of publication & dissemination (2)

At **A.M. Reddy Memorial College of Engineering and Technology**, the Vision, Mission, and Program Educational Objectives (PEOs) are effectively disseminated and communicated to both internal and external stakeholders through various channels.

Overview of where and how these elements are published and how awareness is ensured:

Internal Stake Holders	External Stake Holders
<p>Management</p> <p>Governing Body</p> <p>Faculty & Supporting Staff</p> <p>Students</p>	<p>Employers</p> <p>Industry Partners</p> <p>Alumni</p> <p>Funding Agencies</p>

1. Internal Stakeholders

Internal stakeholders include management, governing board members, faculty, support staff, and students.

- **Website:** The Vision, Mission, and PEOs are prominently published on the official website of the college, www.amreddyengineering.ac.in (<http://www.amreddyengineering.ac.in/>). This ensures that they are easily accessible to all internal stakeholders, including faculty, students, and staff, as the website is regularly visited for academic and administrative purposes.
- These statements are usually located under the "Home" (<https://www.amreddyengineering.ac.in/index.php> (<https://www.amreddyengineering.ac.in/index.php>)) and "Programs" section. (<https://www.amreddyengineering.ac.in/programs/engineering/cse/about-department.php> (<https://www.amreddyengineering.ac.in/programs/engineering/cse/about-department.php>)).
- **Curricula and Syllabi:** The Vision, Mission, and PEOs are integrated into the academic curricula. Faculty refer to these elements during course planning and discussions with students to ensure that the teaching and learning process aligns with the broader institutional objectives. They are also included in course handbooks and syllabi, providing students with a clear understanding of how their academic programs are designed in line with the college's strategic direction.
- **Posters and Signage:** To keep the Vision, Mission, and PEOs visible across the campus, posters and banners are placed in common areas such as the college entrance, faculty rooms, student lounges, libraries, Laboratories, Class rooms and administrative offices. These visual displays ensure constant awareness among internal stakeholders.
- **Student Handbooks and Orientation:** New students are introduced to the Vision, Mission, and PEOs during their orientation sessions. These elements are also included in the student handbooks, which provide essential information about the college and its educational philosophy.
- **Meetings and Workshops:** The college holds regular meetings and workshops with faculty, management, and staff to discuss strategic goals and initiatives. The Vision, Mission, and PEOs are often highlighted in these forums to maintain alignment and inspire ongoing efforts toward achieving institutional objectives.

2. External Stakeholders

External stakeholders include employers, industry partners, alumni, funding agencies, and the broader community.

- **Official Website:** The Vision, Mission, and PEOs are accessible to external stakeholders through the college's official website, www.amreddyengineering.ac.in (<http://www.amreddyengineering.ac.in/>). This is a central point for disseminating these guiding statements to industry partners, potential collaborators, prospective students, and other interested parties.
- **Social Media:** The college actively shares updates and information about its Vision, Mission, and PEOs on its official social media platforms (Whatsapp, LinkedIn, Facebook, Twitter, etc.). These platforms help reach a broad audience, including alumni, employers, and potential students, while keeping them informed about how the college is progressing in its objectives.
- **Alumni Communications:** Alumni emails and events provide a way for the college to share updates about the Vision, Mission, and PEOs with former students. This helps alumni stay connected with the institution's goals and achievements.
- **Industry and Employer Engagement:** Employers, industry partners, and collaborators are introduced to the Vision, Mission, and PEOs through partnership meetings, collaboration agreements, and annual reports. These guiding statements are also included in the college's promotional materials and brochures, which are shared during employer interaction events, career fairs, and other industry engagement activities.
- **Accreditation Reports and External Evaluations:** The Vision, Mission, and PEOs are often included in reports sent to accreditation bodies, funding agencies, and external evaluators. This allows external stakeholders to assess how well the institution's objectives align with broader industry trends and educational standards.
- **Conferences and Industry Events:** During academic and industry-related events, the Vision, Mission, and PEOs are communicated to external stakeholders, ensuring they understand the colleges strategic direction and its alignment with current industry needs.

3. Process for Ensuring Awareness and Effective Implementation

To ensure that all stakeholders are aware of the Vision, Mission, and PEOs and are aligned with them, **A.M. Reddy Memorial College of Engineering and Technology** follows an organized process:

- **Regular Communication:** Continuous communication through newsletters, emails, website updates, and social media posts ensures that both internal and external stakeholders are kept informed about the college's strategic goals and their progress.
- **Feedback Mechanisms:** The college implements feedback mechanisms like surveys, focus groups, and consultation sessions to gauge awareness and gather input from stakeholders. This helps in identifying areas where communication can be improved and ensures that the Vision, Mission, and PEOs remain relevant and impactful.
- **Annual Reviews and Strategic Planning:** The college holds annual reviews and strategic planning meetings to assess progress toward achieving the Vision, Mission, and PEOs. These reviews involve key internal stakeholders, including management, faculty, and board members, and help identify areas for improvement.
- **Training and Orientation:** Faculty, staff, and students are regularly trained and oriented about the Vision, Mission, and PEOs. For new staff and students, these elements are introduced during orientation sessions, ensuring that everyone understands the institutional objectives from the outset.
- **Integration into Institutional Practices:** The Vision, Mission, and PEOs are integrated into everyday practices, from curriculum development to faculty training, student engagement, and institutional decision-making. This alignment helps reinforce the institutional goals at every level.

By utilizing these diverse channels and processes, **A.M. Reddy Memorial College of Engineering and Technology** ensures that its Vision, Mission, and PEOs are not only published but also communicated and ingrained within the culture and operations of the institution. These efforts help foster a unified and focused approach towards the college's strategic objectives.

B. Process of dissemination among stakeholders (2)

Display of Vision, Mission & PEOs:

Facility	Room Number(s)	Count
HoD Room	417	1
Department Corridors	III Floor	3
Department Notice Boards	All Labs and Staff Rooms Notice Boards	7
Faculty Rooms	416,108	2
Classrooms	410,411,412,413,415	5
Department Library	414	1
Laboratories	CSE Lab -1, CSE- Lab-2, CSE - Lab-3, CSE - Lab-4	4

Table 1.3.1: Communication of Vision, Mission & PEOs to all the Stakeholders

C.Extent of awareness of Vision, Mission & PEOs among the stakeholder (6)

The process which ensure awareness among internal and external stakeholders:

S.No	Stakeholders	Process of Dissemination	Time line of Dissemination	Responsibility
1	Students	Induction Program	Beginning of the academic year	HoD Presentation
2	Parents	Parents Meeting	Beginning of the semester	Principal & HoD
3	Alumni	Alumni Meeting	Once in an academic year	Alumni Coordinator
4	Employer	Placement Drives	End of the semester	TPO
5	Faculty	Staff Meetings	Twice in a semester	HoD
6	Society	When NSS activities are conducted	Once in a semester	NSS Coordinator
7	Governing Body	GB Meeting	Once in an academic year	Principal

Table 1.3.2: Communication of Vision, Mission & PEOs to all the Stakeholders

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

Total Marks 25.00

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

(Articulate the process for defining the Vision and Mission of the department and PEOs of the program)

A. Description of process for defining the Vision, Mission of the Department (10)

The consistency of Vision statements of the department with institute statements ascertained after a rigorous process of discussions at various levels.

Brainstorming sessions are conducted with the following committees that are constituted at the Department level. They are

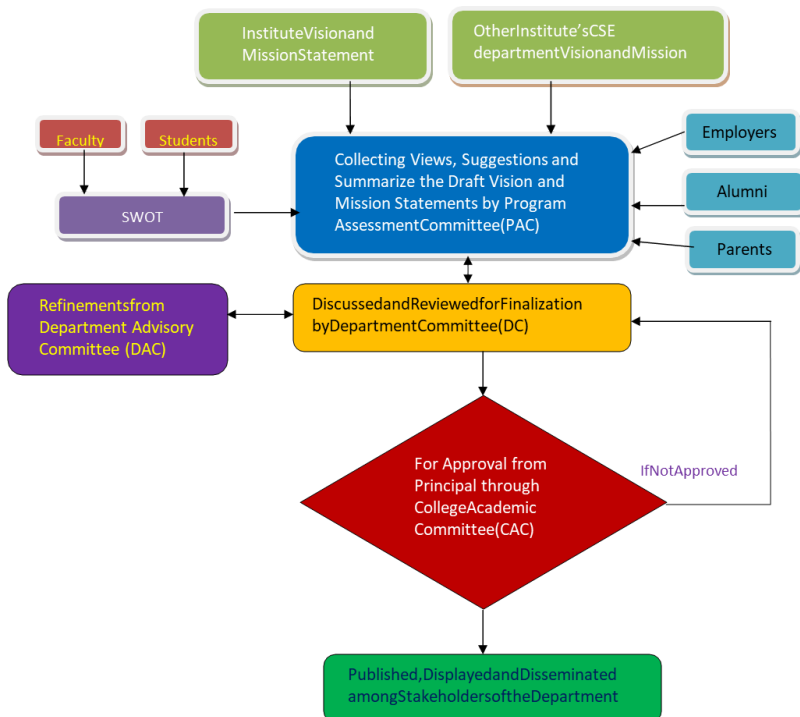
- Program Assessment Committee (PAC)
- Department Committee (DAAC)
- Department Advisory Committee (DAC)

Process for Defining the Vision, Mission, and PEOs of the Department of Computer Science and Engineering at A.M. Reddy Memorial College of Engineering and Technology follows a systematic and inclusive process by involving stake holders of the Department. The goal is to align the departments aspirations with the colleges overarching objectives while considering the changing dynamics of the industry, technology, and society. Shown in figure 1.4.1.

In formulating the Vision and Mission of the Department, the following steps are followed:

Steps	Process
Step -1	Vision and Mission of the college and sample Vision and Mission statements of computer science and engineering department of other institutions are taken as basis.
Step -2	Views are taken from the stakeholders of the department such as students, alumni, faculty members, employers and parents.
Step -3	The views about the Vision and Mission of the department are formulated by the Program Assessment Committee (PAC).
Step -4	The Department Committee (DC) reviews the Vision and Mission of the department and checks the consistency with the Vision and Mission of the institute and finalizes the Vision and Mission of the department. If the statements are not consistent then it sends them to Department Advisory Committee (DAC) to conduct brainstorming session for refining the Vision and Mission statements.
Step -5	The Department Committee (DC) reviews and finalizes Vision and Mission statements and sends them to College Academic Committee (CAC) / Principal for approval.
Step -6	Vision and Mission statements of the department are published, displayed and disseminated among stakeholders.

Vision and Mission Process Chart:



(https://drive.google.com/file/d/1v7GfeFIfzQExfRHLW8cayRJKf081kb2D/view?usp=drive_link)

Figure 1.4.1: Process Flow Chart for Defining Vision and Mission

B. Description of process for defining PEOs & PSOs of the program (15)

In formulating PEOs & PSOs of the program, the following steps are followed:

Steps	Process
Step -1	Vision and Mission of the college and department Vision & Mission statements are taken as basis.
Step -2	Vision and Mission of the department are taken as a basis to interact with various stakeholders
Step -3	The Program Assessment Committee (PAC) collects the survey results of various stakeholders.
Step -4	On considering the views of the stakeholders, the PEOs & PSOs are formulated by the PAC.
Step -5	The PEOs & PSOs are presented before the Department Committee (DC) for approval. The Department Committee (DC) sends the statements to the Department Advisory Committee (DAC) for suggestions, and after getting suggestions from DAC, DC finalize the PEO & PSO statements to improvise the program.
Step -6	DC reviews, finalizes by Department Committee (DC) and the same communicated to the College Academic Committee / Principal.
Step -7	Department PEOs & PSOs were published, displayed & disseminated among stake holders.

PEOs & PSOs formation process chart:

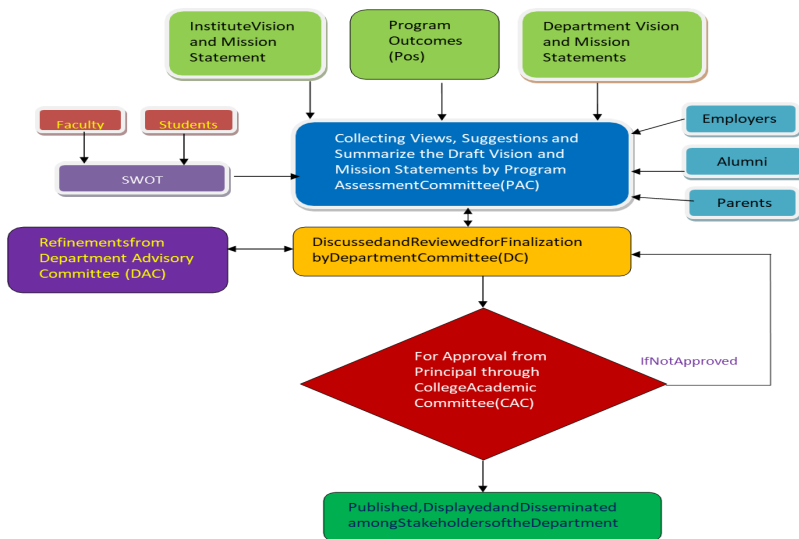


Figure 1.4.2: Process Flow Chart for Defining PEOs & PSOs

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

Total Marks 15.00

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

(Generate a "Mission of the Department – PEOs matrix" with justification and rationale of the mapping)

A.Preparation of matrix of PEOs and elements of Mission statement (5)**PEOs Mapping with Department Mission:**

PEO Statements	DM1	DM2	DM3
PEO1: Quality in professionalism, good and ethical conduct, interpersonal skills, and adjustable communication to ubiquitous trends in the latest technologies	3	2	3
PEO2: Study of real-life troubles to enlarge economically feasible and socially suitable solutions to engineering crises	2	3	2
PEO3: Developing professional skills among students and transforming them into effective professionals in programs	3	3	2

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

B. Consistency / justification of the correlation parameters of the above matrix (10)**PEOs mapping with Department Mission****Program Name:** B. Tech in Computer Science and Engineering**DM1: To provide a strong theoretical and practical education in a congenial environment**

	DM ₁	Justification
PEO1	3	This mission supports PEO1 strongly by offering both theoretical understanding and hands-on learning, which are essential for developing professionalism, communication, and ethical behavior.
PEO2	2	It has a moderate connection, as it builds the foundational knowledge needed to understand and analyze real-life engineering problems.
PEO3	3	This mission aligns well by helping students build the necessary academic and practical skills to become competent professionals.

DM2: To provide additional skills and training to meet the current needs of the industry

	DM ₂	Justification
PEO1	2	It moderately supports PEO1 by helping students stay updated with recent technologies and improve their adaptability and communication for the modern workplace.
PEO2	3	This mission is strongly linked because it prepares students to tackle current industrial problems by equipping them with practical and job-ready skills.
PEO3	3	It supports PEO3 effectively by providing the training needed to shape students into skilled and industry-ready professionals.

DM3: To inculcate ethical values to meet the challenges of life with courage and confidence

	DM ₃	Justification
PEO1	3	This mission is closely connected, as it helps in shaping students with good ethics, professionalism, and the confidence to interact responsibly in various environments.
PEO2	2	It has a moderate influence, encouraging students to consider ethical and social aspects while solving technical problems.
PEO3	2	While not directly focused on skills, this mission contributes by building responsible and value-based professionals.

PEO Statements	M1	M2	M3
Quality in professionalism, good and ethical conduct, interpersonal skills and adjustable communication to ubiquitous trends in latest technologies	3	2	3
Study of real-life troubles to enlarge economically feasible and social suitable solutions of engineering crisis.	2	3	2
Developing professional skills among the students and transforming them as effective professionals in programs.	3	3	2

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

Institute Marks : 10.00

2.PROGRAM CURRICULUM AND TEACHING – LEARNING PROCESSES (120)**2.0.1. Program Outcomes (POs)**

PO1	Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem Analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	Design / Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
PO6	The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication Skills: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Table 2.0.1: List of Program Outcomes**2.0.2 Program Specific Outcomes (PSOs)**

PSO1	Students will be able to apply domain knowledge and expertise for enhancing research capability to transform innovative ideas into reality.
PSO2	To prepare students to undertake careers involving problem solving using computer science and technologies

Table 2.0.2: List of Program Specific Outcomes**2.1.Program Curriculum (20)**

State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any

Program Curriculum

Our college adheres to the curriculum and syllabi prescribed by JNTU, Kakinada. The syllabi comprised multi-faceted courses covering theory, practicals, and currently implementing the regulations that are underway.

S. No	Batch	Regulation	University
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1	2018 – 19	R16	JNTUK University, Kakinada
2	2019 – 20	R19	
3	2020 – 21	R20	
4	2021 – 22		
5	2022 – 23		
6	2023 – 24	R23	
7	2024 - 25		

Table 2.1.1: Curriculum Regulation details

UNIVERSITY CURRICULUM**A.Process used to identify extent of compliance of the University Curriculum for attaining Program Outcomes and Program Specific Outcomes (6)**

The department follows the curriculum designed by the affiliating university, i.e., Jawaharlal Nehru Technological University, Kakinada. POs prescribed by the National Board of Accreditation (NBA). Course Outcomes (COs) are defined by the course handling faculty in alignment with the university curriculum. We relate these COs to POs and PSOs.

S. No	Program curriculum based on course content	Number of courses in R20	Number of Credits	PO's and PSO's
1	Basic Science Courses	8	21	PO1, PO2, PO3, PO4, PO6, PO8, PO12
2	Professional Core Courses	24	55.5	PO1, PO2, PO3, PO4, PO5, PO8, PO12, PSO1, PSO2
3	Engineering Science Courses including workshop, drawing, basics of electrical	8	19.5	PO1, PO2, PO3, PO5, PO7, PO8, PO12
4	Humanities and Social Sciences including Management Courses	4	10.5	PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12
5	Open Subjects – Electives from other technical and /or emerging subjects	4	12	PO1, PO2, PO3, PO4, PO5, PO8, PO12, PSO1, PSO2
6	Professional Elective Courses relevant to chosen specialization / branch	10	25	PO1, PO2, PO3, PO4, PO5, PO8, PO12, PSO1, PSO
7	Project work, seminar and internship in industry or elsewhere	3	16.5	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2
Total		61	160	

Table 2.1.2: Various Curriculum Components of Program Curriculum

The curriculum for the Computer Science and Engineering programme as prescribed by the University has:

Curriculum Components Analysis (R-20s):

Curriculum Components Analysis – No. of Courses, credits, hours Wise

Curriculum Components	No. Of	%	Total	%	Total	%
	Courses	Courses	Credits	Credits	Hours	Hours
Basic Sciences	8	13.11	21	13.13	24	13.4
Program Core	24	39.34	55.5	34.69	70	39.1
Engineering Science	8	13.11	19.5	12.19	26	14.5
Humanities & Social Science	4	6.56	10.5	6.56	12	6.7
Open Elective	4	6.56	12	7.50	12	6.7
Professional Elective	10	16.39	25	15.63	35	19.6
Project & Seminar	3	4.92	16.5	10.31	-	-
TOTAL	61	100	160	100	179	100.0

Table 2.1.3: Program Curriculum Analysis (R-20s)

Figure 2.1.1: Course-Wise Program Curriculum Analysis(R-20) - Annexed Separately

Figure 2.1.2: Credits-Wise Program Curriculum Analysis(R-20) - Annexed Separately

Figure 2.1.3: Hours-Wise Program Curriculum Analysis(R-20) - Annexed Separately

Basic Sciences

The stream includes courses like Engineering Mathematics, Engineering Physics, Engineering Chemistry, Probability and Statistics, which provides basic knowledge on Mathematics, Physics, Chemistry, and Probability and Statistics.

Professional Core Courses

The stream include courses like Data Structures with C, Object Oriented Programming with C++, Software Engineering, Computer Organization, Java Programming, Operating Systems, Database Management Systems, Formal Languages and Automata Theory, Data Warehousing and Data Mining, Computer Networks, Compiler Design, Artificial Intelligence, Web Technologies, Distributed Systems, Design and Analysis of Algorithms, Cryptography and Network Security, UML & Design Patterns, Machine Learning, Mathematical Foundations in Computer Science etc. Project work and students to develop understanding of the inter relationship between courses, develop and demonstrate higher order skills, and to apply the gained knowledge.

Engineering Science Courses

The stream include courses like Fundamentals of Computer Science, Engineering Drawing, IT Workshop, Programming for Problem Solving Using C, Digital Logic Design, Python Programming of all engineering disciplines.

Humanities and Social Sciences Course

The stream includes courses like Managerial Economics and Financial Accountancy, Management and Organizational Behavior, Management and Entrepreneurship. These are essential to create awareness on Managerial & Entrepreneurial Skills, Finance Management.

Open Elective Courses

The stream includes courses like Computer Graphics, Principles of Programming Languages, Advanced Data Structures, Software Testing Methodologies, Advanced Computer Architecture, NPTEL/SWAYAM courses with duration of 12 weeks' minimum with reputation of the title, Mobile Computing, Data Science, NoSQL Database, Internet of Things, Software Project Management, Web Services, Cloud Computing, Mean Stack Technologies, Ad-hoc and Sensor Networks, Cyber Security & Forensics. These are create strong knowledge skills in addition to the program core courses. The Electives provide an avenue for specific courses.

Professional Elective Courses

The stream includes courses like Distributed Computing, AI Tools & Techniques, Big Data, Image Processing, Mobile Computing, Mobile Application Development, Cyber Security, Deep Learning, Blockchain Technologies offering to the other programs. Additionally, we provide courses from other programmes to the CSE programme.

Project & Seminar

The stream includes courses like Social Relevant Project, Project – I , and Project – II for provide complete a practical approach through the course which they learn.

The following table shows the curriculum mapping to POs:(R-20)

S.NO	Subject Names	Course Code/POS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	Com. Engg	C111	2.60	2.40								2.80		2.00
2	M-I	C112	3.00	2.60		2.80								2.20
3	App. Phy	C113	3.00	2.20		2.60	2.60					2.40		2.60
4	PPS Using C	C114	3.00	2.80	2.60		2.60							2.00
5	CE Workshop	C115	3.00	3.00	2.20	2.60	2.80							2.00
6	ECS Lab	C116	3.00	3.00	2.60	2.60	2.80							2.20
7	App. Phy Lab	C117	3.00	3.00	2.60	2.60	2.80							2.20
8	PPS Lab	C118	3.00	2.60	2.60	2.80	2.60					2.60		2.00
9	M-II	C121	3.00	3.00	2.80	2.60	2.40							2.40
10	App. Chem	C122	3.00	2.60	2.40	2.40	2.40							2.40
11	CO	C123	3.00	2.80	2.80	2.60	2.40							2.40
12	PP	C124	3.00	2.60	2.80	2.60	2.40							2.20
13	DS	C125	3.00	2.80	2.80	2.40	2.40							2.40
14	App. Chem Lab	C126	3.00	2.20	2.80	3.00	2.80					2.20		2.40
15	PP Lab	C127	3.00	2.60	2.80	2.80	3.00					2.40		2.60
16	DS Lab	C128	3.00	2.60	3.00	2.60	2.60							
17	M-II	C211	3.00	2.60	2.40	2.60								
18	OOPS through C++	C212	3.00	2.60	2.60	2.60	2.60							
19	OS	C213	2.60	2.20	2.60	2.60								
20	SE	C214	3.00	2.60	2.40	2.40	2.60					2.40		2.40
21	MFCS	C215	2.40	2.60	2.60	2.60	2.40					2.60		2.40
22	OOPS Through C++ Lab	C216	3.00	2.80	3.00	2.60	2.60							2.00
23	OS Lab	C217	3.00	2.60	2.60	2.60	3.00							2.60
24	SE Lab	C218	3.00	2.80	2.60	2.80	3.00							2.60
25	Applications Of Python-Numpy	C219	3.00	2.80	2.80	2.60	2.60					2.40		2.60
26	P & S	C221	3.00	2.80	2.60	2.40	2.40					2.40		2.40
27	DBMS	C222	3.00	2.60	2.80	2.40	2.20							2.40
28	FLAT	C223	3.00	2.60			2.40							
29	Java Programming	C224	3.00	2.60	2.60	2.40	2.20					2.40		2.60
30	MEFA	C225	2.80	2.40	2.40			2.40				2.40		
31	DBMS Lab	C226	3.00	2.80	2.40	2.40	3.00					2.40		2.40
32	R Programming Lab	C227	3.00	2.80	2.20	2.40	3.00					2.20		2.40
33	Java Programming Lab	C228	3.00	2.80	2.40	2.60	3.00					2.40		2.60
34	Web Application Development Using Full Stack	C229	3.00	2.40	2.60	2.60	3.00					2.40		2.40
35	CN	C311	2.80	2.80	2.60							2.40		
36	DAA	C312	2.80	2.20	2.80	2.60	2.20							
37	DWDM	C313	3.00	2.60	3.00	2.40	2.40							
38	BE	C314	2.80	2.60	2.40	2.40								

39	SPM	C315	2.80	2.40	2.60	2.60				2.60	2.60	2.40	2.00	2.40
40	DWDM Lab	C316	2.80	2.00	3.00	3.00	2.80					2.40		2.40
41	CN Lab	C317	3.00	2.60	2.80	2.60	2.40							2.40
42	Animation Design	C318	2.40		2.40	2.40	2.80					2.20		2.40
43	Internship	C319	2.20	2.40	2.40	2.40	2.40				2.40			2.60
44	ML	C321	2.80	2.60	2.60	2.40	2.60							2.40
45	CD	C322	3.00	2.80	2.80	2.20	2.40							2.60
46	CNS	C323	3.00	2.80	2.40	2.40	2.40							2.60
47	OOAD	C324	2.80	2.40	2.80	2.00	2.40							2.40
48	FMPMC	C325	3.00	2.00	2.60		2.40							
49	ML Using Python	C326	3.00	2.40	2.60	2.80	3.00							2.60
50	CD Lab	C327	3.00	2.40	2.60	2.80	3.00							2.60
51	CNS Lab	C328	3.00	2.40	2.60	2.40	2.80							
52	Mean Stack Technologies-Module I	C329	3.00	2.20	2.80	2.40	3.00				2.20	2.20		2.20
53	CC	C411	3.00	2.80	2.40		2.80							2.60
54	SWSN	C412	3.00	2.80	2.40	2.60	2.80				2.20	2.20		2.40
55	EH	C413	3.00	3.00	2.80	2.20	3.00	2.00			2.20	2.20	2.00	
56	EMI	C414	3.00	2.80	2.60	2.20	2.60				2.40	2.40		
57	RS & GIS	C415	3.00	2.80	2.80	2.20	2.60				2.20	2.40		
58	UHV	C416	3.00	2.60	2.20	3.00	2.40	2.80	3.00	2.40		2.20	2.40	
59	Angular JS and Mongo DB	C417	3.00	2.40	2.40	3.00	2.60		2.40	2.60				
60	Internship	C418	2.20	2.40	2.40	2.40	2.40				2.40			2.60
61	Project	C421	3.00	2.80	3.00	2.80	2.60					2.20		
Avg			2.91	2.60	2.62	2.55	2.63	2.40	2.70	2.53	2.33	2.37	2.13	2.40
Total Number of Courses Mapped			61	60	57	54	53	3	2	3	8	26	3	43
TOTAL						AVERAGE						80% of Avg		
30.17						2.51						2.01		

Table 2.1.4: R-20 Curriculum mapping to POs

B. List the curricular gaps for the attainment of defined Program Outcomes (POs) and Program Specific Outcomes (PSOs) (4)

Process for curriculum & beyond the curriculum gap identification:

As an affiliated institution, the programs are bound to follow the curriculum set by the university. It is necessary to identify the curricular gaps and take measures to bridge them by supplementing the curriculum with content beyond the syllabus through active teaching and learning methodologies.

The processes to identify the curricular gaps are carried out in the following ways:

Feedback from the student exit survey was consolidated to identify the curricular gaps. Employer feedback surveys are consolidated, and the suggestions are considered and conveyed to the appropriate boards responsible for framing the syllabi. An alumni survey has been taken to get information about requirements in industries, and industry experts who conduct placements shall be consolidated, and their suggestions shall be considered by the Program Assessment Committee for identifying the curricular gaps.

The shortcomings in the curriculum to attain the Program Outcomes(POs) are identified as curricular gaps. Program Assessment Committee(PAC) discusses the advantages and disadvantages of the current scheme with the help of course feedback surveys, student exit surveys, alumni surveys, employer surveys, etc., and formulates recommendations for the next scheme. These recommendations are submitted to the university.

The Course Outcomes(COs) of the courses are mapped to the relevant POs and PSOs through individual COs to identify the curriculum gaps.

Process for Gap Identification

Figure 2.1.4: Process for Curriculum & Beyond the Curriculum Gap Identification- Annexed Separately

Curriculum gaps are identified using the following process in the department.

- The university curriculum is taken as input.
- Course Outcomes (COs) can be defined by the course handling faculty according to the university curriculum.
- POs defined by the NBA and PSOs defined by the Department Committee (DC) are considered for mapping COs with POs and PSOs.
- Course handling faculty identify gaps in the course by considering the university curriculum.
- Alumni, employer, student (exit), and industry experts' feedback was also collected on the curriculum.
- The coordinator of the Programme Assessment Committee (PAC) collects the gaps from faculty.
- PAC receives input from the coordinator, discusses it with them, and lists out the gaps to conduct additional activities to strengthen weakly supported POs and PSOs.
- PAC suggests suitable implementation methods such as conducting guest lectures, seminars, certificate courses, additional lab sessions, workshops, industrial visits, etc.
- PAC sent the identified gaps and methodology to fill the gaps to the Department Committee (DC) for approval.
- After getting approval from the Department Committee (DC), the gaps and methodologies to fill the gaps are sent to the College Academic Committee (CAC).
- The CAC sends the list of gaps to the University Director of Academic and Planning (DAP).

Evaluation Process:

The consolidated curriculum gaps in each course and the proposed list of actions are put forth for verification by the Programme Assessment Committee (PAC). After being approved by the Department Advisory Committee (DAC), the actions are implemented in corporate at various stages of delivery in course lecture plans and in the department event planner, etc. After completion of every action, the DAC approves an additional concept (guest lectures, seminars, workshops, certificate courses, etc.) for fulfilling the curriculum gaps, and the result is accumulated to the attainment of POs and PSOs. During the semester course, the instructor assesses the COs and POs/PSOs by conducting midterm examinations, quizzes, and assessments as an internal assessment. The external assessment is done as per the schedule of the affiliated university, i.e., JNTU, Kakinada.

The procedural training for Outcome Based Education (OBE) was imparted to the course coordinators. Relevant courses are collected based on their contents and grouped as modules, which consist of basic sciences, humanities and social sciences, engineering core and electives, and other courses. For each course, the knowledge level of the corresponding course outcomes is formulated. Curriculum compliance may be verified by organising the information into a matrix (CO-PO *strength matrix*), which maps the link between the course outcomes (COs) and the program outcomes (POs). Mapping not only provides information on what requirements (POs) are required but also manifests the way and possible level of attainment of the POs by curriculum. The same process is extended to the COs-PSOs strength matrix. From the identified through consolidation of average CO-PO/PSO mapping of all courses. The entire process is shown in the flowchart in Figure 2.1.4.

Curricular Gaps Identified in Academic Year 2024-25 (CAY)

S. No.	Course Name	Gap Description	Related CO	POs & PSOs
1	Cloud Computing	Cloud-native supports rapid, automated deployment and updates, a key enabler of modern development workflows.	CO4, CO5	PO2, PO3
2	Social Networks & Semantic Web	Linked Data and SPARQL Query Language	CO4	PO3,PO5,PO12
3	Ethical Hacking	Missing wireless security concepts (WEP, WPA, WPA2), wireless attack techniques	CO2, CO4	PO3,PO5
4	Computer Networks	Advanced Computer Networks	CO3, CO4	PO2, PO3, PO4
5	Design and Analysis of Algorithms	Greedy Algorithm	CO3, CO6	PO1, PO3, PO4, PO6, PO9, PO12
6	Data Warehousing & Data Mining	Data Mining Using Weka Tool	CO3, CO5	PO2, PO3, PO4, PO5, PO6, PO12
7	Software Project Management	Process Improvement Discipline	CO3, CO6	PO2,PO11,PSO2
8	Advanced data structures and algorithms	No Disjoint Set Union (Union-Find) data structure and its applications	CO2	PO1,PO3
9	Java Programming	Development of Upcoming Engineers, AWT, Swings	CO4	PO1, PO2, PO3, PO4, PO5, PO6, PO12
10	Operating System	Real Time Operating System	CO4, CO5	PO2, PO3, PSO1, PSO2
11	Data Base Management System	Mango DB	CO6	PO1, PO2, PO3, PSO1
12	Software Engineering	Agile Software Development Process, SCRUM – SE	CO6	PO1, PO2, PO3, PO4, PO5, PO6, PO12
13	Machine Learning	Keras and Tensor flow for developing theApplications of Machine Learning	CO3, CO4, CO5	PSO1
14	Compiler Design	Context Free Grammar	CO2, CO4	PO1, PO2, PO4, PO5, PO6, PO12
15	Cryptography and Network Security	IDEA and BLOWFISHAlgorithms.	CO2	PO1, PO4, PO5, PO6, PO12
16	Object Oriented Analysis and Design	Essential elements of design patterns and how to solve real world problems using design patterns	CO4	PO4

Table 2.1.5.1: List of curriculum gaps for academic year 2024-25

S. No.	Course Name	Gap Description	Related CO	POs & PSOs
1	OOPs through C++	Advanced Computation and Graphics using C++	CO4	PO1, PO2, PO3, PO4, PO6, PO12
2	Operating Systems	Real Time Operating System	CO4,CO5	PO2, PO3, PO4, PO5, PO12
3	Software Engineering	Agile Software Development Process, SCRUM – SE	CO6	PO1, PO2, PO3, PO4, PO5, PO6, PO12
4	Computer Networks	Advanced Computer Networks	CO3, CO4	PO2, PO3, PO4
5	Design and Analysis of Algorithms	Greedy Algorithm	CO3, CO6	PO1, PO3, PO4, PO6, PO9, PO12
6	Data Warehousing & Data Mining	Data Mining Using Weka Tool	CO3, CO5	PO2, PO3, PO4, PO5, PO6, PO12
7	Software Project Management	Process Improvement Discipline	CO3, CO6	PO2,PO11,PSO2
8	Cloud Computing	Cloud-native supports rapid, automated deployment and updates, a key enabler of modern development workflows.	CO4, CO5	PO2, PO3
9	Social Networks & Semantic Web	Linked Data and SPARQL Query Language	CO4	PO3,PO5,PO12
10	Ethical Hacking	Missing wireless security concepts (WEP, WPA, WPA2), wireless attack techniques	CO2, CO4	PO3,PO5
11	Operating System	Real Time Operating System	CO4, CO5	PO2, PO3, PSO1, PSO2
12	Data Base Management System	Mango DB	CO6	PO1, PO2, PO3, PSO1
13	Software Engineering	Agile Software Development Process, SCRUM – SE	CO6	PO1, PO2, PO3, PO4, PO5, PO6, PO12
14	Machine Learning	Keras and Tensor flow for developing theApplications of Machine Learning	CO3, CO4, CO5	PSO1
15	Compiler Design	Context Free Grammar	CO2, CO4	PO1, PO2, PO4, PO5, PO6, PO12

Table 2.1.5.2: List of curriculum gaps for academic year 2023-24

Table 2.1.5.3: List of curriculum gaps for academic year 2022-23 (Annexed Separately)

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

Institute Marks : 10.00

2.1.2. State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs**A. Steps taken to get identified gaps included in the curriculum (letter to university / BOS) (2)****Inputs and Suggestions to JNTU Kakinada regarding curriculum gaps and the possible addition of new content**

The Department consolidated all the additional contents in theory and laboratory courses and submitted them to the College Academic Committee (Principal) to communicate to the director, academics and planning, JNTU, Kakinada, and Board of Studies for their kind perusal and consideration for discussion in the exercise of upcoming regulations of curriculum and syllabus structure.

*Figure 2.1.2: Communicated Curricular Gaps to Affiliated University (Annexed Separately)***B. Delivery details of content beyond syllabus (5) &****C. Mapping of content beyond the syllabus with POs and PSOs (3)****Process to identify the gaps for attaining COs, POs, and PSOs**

- The Program Assessment Committee collects the list of curriculum gaps from the university curriculum, faculty, students, alumni, and employers, then forwards the list of consolidated gaps/content beyond the syllabus with actions to the Department Advisory Committee and Department Committee.
- The Department Advisory Committee will analyse the list of identified gaps/content beyond the syllabus with actions to strengthen weakly supported POs and PSOs given by the Program Assessment Committee, and it will give the suggestion to the Department Committee for further modification or approval.
- The Department Committee will finalise the list of gaps with actions

2023-24

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Advanced Computation and Graphics using C++	Guest Lecture	22/08/2023	Mr. M Kalyan Chakravarthy, Sr. Software Engineer, Adaps IT Pvt.Ltd	90	PO1, PO2, PO3, PO5; PSO1, PSO2
2	Real Time Operating System	Workshop	11/09/2023	Dr.Ch.V.Phani Krishna,Professor,TKR Engineering college, Hyderabad	86	PO1, PO2, PO3, PO4; PSO1
3	Agile Excellence: Mastering Software Development with SCRUM	Guest Lecture	10/05/2023	Dr.Konda Srinivas, Professor ,CMRIT	92	PO1, PO8, PO9, PO10, PO11; PSO2
4	Advanced Computer Networks	Guest Lecture	08/07/2023	Mr. M Kalyan Chakravarthy, Sr. Software Engineer, Adaps IT Pvt.Ltd	85	PO1, PO2, PO3, PO4; PSO1
5	Greedy Algorithm	Guest Lecture	13/09/2023	Dr.V.Gowtham, Professor and Principal ,SMGOIH	88	PO1, PO2, PO3; PSO1
6	Data Mining Using Weka Tool	Workshop	10/05/2023	Dr.N .Tirumala Rao, HOD,NEC ,Narasaraopet	92	PO1, PO2, PO4, PO5; PSO1, PSO2
7	Process Improvement Discipline	Guest Lecture	11/11/2023	Dr.K Thirupathi Rao Associate Prof, GITHAM	89	PO8, PO9, PO10, PO11, PO12; PSO2
8	Training Program on Cloud Computing	Workshop	07/08/2023	Dr.K Kumaraswamy,Assoc Prof,CMRCET,	96	PO1, PO2, PO3, PO5; PSO1, PSO2
9	Unlocking the Semantic Web: An Introduction to Linked Data and SPARQL	Guest Lecture	15/09/2023	Dr.Y.Soumya,Assoc .Professor,CVR Engineering college ,Hyd	92	PO1, PO2, PO4, PO5; PSO1
10	Securing the Airwaves: A Deep Dive into Wireless Protocols and Threats	Guest Lecture	31/10/2023	Dr.K Suresh, HOD , St Mary"s Engineering College Hyd	95	PO1, PO2, PO3, PO12; PSO1
11	Mongo DB	Workshop	26/02/2024	Mrs.P.Sirisha Reddy , Team Lead ,Infosys	89	PO1, PO2, PO3, PO5; PSO1, PSO2
12	Keras and Tensor flow for developing theApplications of Machine Learning	Workshop	02/02/2024	Dr.D Sasi Rajashekar,Dean,SMGOIH,	78	PO1, PO2, PO3, PO5; PSO1, PSO2
13	Context Free Grammar	Guest Lecture	04/04/2024	Dr.K Suresh, HOD , St Mary"s Engineering College Hyd	91	PO1, PO2; PSO1
14	IDEA and BLOWFISH Algorithms.	Guest Lecture	08/04/2024	Mr.M Kalyan Chakravarthy, Sr. Software engineer Adaps It Pvt.Lmt	92	PO1, PO2, PO3; PSO1, PSO2

2022-23

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	IDEA and BLOWFISH Algorithms.	Guest Lecture	20/07/2022	Mr. M Kalyan Chakravarthy, Sr. Software Engineer, Adaps IT Pvt.Ltd	92	PO1,PO2,PO3,PO5,PSO1,PSO2
2	Design Patterns Demystified: Solving Real-World Problems with Reusable Solutions	Workshop	09/08/2022	Dr.Y.Soumya,Assoc .Proff,CVR Engineering college ,Hyd	94	PO1,PO2,PO3,PO12,PSO1,PSO2
3	Keras and Tensor flow for developing theApplications of Machine Learning	Guest Lecture	12/09/2022	Dr.K Suresh, HOD , St Mary"s Engineering College Hyd	93	PO1,PO2,PO3,PO5,PO12,PSO1,PSO2
4	Training Program on Colud Computing	Workshop	04/10/2022	Dr.K Kumaraswamy,Assoc Prof,CMRCET,	93	PO1,PO2,PO3,PO5,PO12,PSO1,PSO2
5	Advanced Computer Networks	Guest Lecture	23/08/2022	Mr. M Kalyan Chakravarthy, Sr. Software Engineer, Adaps IT Pvt.Ltd	86	PO1,PO2,PO3,PO5,PSO1,PSO2
6	Greedy Algorithm	Guest Lecture	06/09/2022	Dr.V.Gowtham, Prof and Principal ,SMGOIH	89	PO1,PO2,PO3,PSO1,PSO2
7	Data Mining Using Weka Tool	Workshop	07/10/2022	Dr.N . Tirumala Rao HOD,NEC ,Narasarao pet	91	PO1,PO2,PO3,PO5,PSO1,PSO2
8	Process Improvement Discipline	Guest Lecture	25/10/2022	Dr.K Thirupathi Rao Assoc Prof, GITHAM	90	PO2,PO4,PO6,PO12,PSO1,PSO2
9	Advanced Computation and Graphics using C++	Guest Lecture	26/09/2022	Dr.P V S Srinivas, Prof and Principal,VBIT,Hyd	88	PO1,PO2,PO3,PSO1,PSO2
10	Real Time Operating System	Workshop	13/10/2022	Dr.Ch.V.Phan Krishna,Prof,Tkr Eng college ,HYD	89	PO1,PO2,PO3,PO5,PSO1,PSO2
11	Agile Excellence: Mastering Software Development with SCRUM	Guest Lecture	04/11/2022	Dr.Konda Srinivas, Prof ,CMRIT	88	PO6,PO7,PO9,PO10,PO11,PO12,PSO1,PSO2
12	GIT and Jenkin Tools.	Workshop	15/03/2023	Mr.K.Ashok,Tech Lead,OSI Digital Pvt. Ltd	78	PO1,PO2,PO3,PO5,PO11,PO12,PSO1,PSO2
13	Keras and Tensor flow for developing theApplications of Machine Learning	Workshop	30/01/2023	Dr.D Sasi Rajashekar,Dean,SMGOIH,	89	PO1, PO2, PO3, PO5, PO12,PSO1, PSO2
14	Context Free Grammar	Guest Lecture	17/02/2023	Dr.K Suresh, HOD , St Mary"s Engineering College Hyd	84	PO1, PO2, PO3, PO4, PO12,PSO1, PSO2
15	Mongo DB	Workshop	02/03/2023	Mrs.P.Sirisha Reddy , Team Lead ,Infosys	84	PO1, PO2, PO3, PO5, PO12,PSO1, PSO2

2021-22

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Cloud Computing	Training Program	12/07/2021	Mr.M Kalyan Chakravarthy, Sr. Software engineer Adaps It Pvt.Lmt	85	PO2, PO4, PO12
2	Front End Development	Workshop	20/10/2021	Dr.Y.Soumya,Assoc .Proff,CVR Engineering college ,Hyd	86	PO1, PO2, PO4, PO5, PO6, PO12
3	Context Free Grammar	Guest Lecture	30/10/2021	Dr.K Suresh, HOD , St Mary"s Engineering College Hyd	83	PO1, PO2, PO4, PO5, PO6, PO12
4	Data Mining Using Weka Tool	Workshop	08/11/2021	Dr.K Kumaraswamy,Assoc Prof,CMRCET,	90	PO2, PO3, PO4, PO5, PO6, PO12
5	Real Time Operating System	Guest Lecture	18/11/2021	Mr.M Kalyan Chakravarthy, Sr. Software engineer Adaps It Pvt.Lmt	90	PO2, PO3, PO4, PO5, PO12
6	Introduction to Databases and its Connectivity	Training Program	22/11/2021	Dr.V.Gowtham, Prof and Principal ,SMGOIH	92	PO3, PO4, PO11, PO12
7	Introduction to Artificial Intelligence	Workshop	02/12/2021	Dr.N .Tirumala Rao HOD,NEC ,Narasarao pet	95	PO1, PO2, PO3, PO4, PO6, PO12
8	Advanced Computation and Graphics using C++	Guest Lecture	17/12/2021	Dr.K Thirupathi Rao Assoc Prof, GITHAM	92	PO1, PO2, PO3, PO4, PO6, PO12
9	Mobile Security Threats	Guest Lecture	29/12/2021	Dr.P V S Srinivas, Prof and Principal,VBIT,Hyd	93	PO1, PO2, PO4, PO6, PO12
10	Python using Data Science	Training Program	01/02/2022	Dr.Ch.V.Phan Krishna,Prof,Tkr Eng college ,HYD	92	PO3, PO4, PO12, PSO2
11	Angular JS	Workshop	24/02/2022	Dr.Konda Srinivas, Prof ,CMRIT	93	PO1, PO2, PO3, PO4, PO6, PO12
12	Machine Learning Algorithms	Guest Lecturer	04/03/2022	Dr.D Sasi Rajashekar,Dean,SMGOIH,	95	PO1, PO2, PO4, PO6, PO9, PO12
13	Regular and Context Free Languages	Guest Lecture	12/03/2022	Dr.K Suresh, HOD , St Mary"s Engineering College Hyd	85	PO1, PO2, PO4, PO6, PO12
14	Advanced Java Programming	Workshop	19/05/2022	Mrs.P.Sirisha Reddy , Team Lead ,Infosys	86	PO1, PO2, PO4, PO6, PO9, PO12
15	Greedy Algorithm	Guest Lecture	06/05/2022	Dr.K Kumaraswamy,Assoc Prof,CMRCET,	90	PO1, PO3, PO4, PO6, PO9, PO12

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

2.2. Teaching-Learning Processes

2.2.1. Describe processes followed to improve quality of Teaching & Learning

A. Adherence to academic calendar (3)

The Department follows the academic calendar given by the JNTUK, Kakinada. The academic calendar consists of two semesters, even and odd. The calendar includes the schedule of commencement of instructions, the first and second internal examinations, and external theory and practical examinations. The departments activities and events are scheduled well in advance of the commencement of the semester.

The department calendar was prepared well in advance before the commencement of the academic year based on the events of the university academic calendar and arranged at the department level for different technical events. It consists of the activities planned for the semester, which include the commencement of classes, industrial visits, internal mid-semester test dates, university exams, and the conduct of events like guest lectures, workshops, faculty development programmes, etc. As shown in the below figures 2.2.1.1 and 2.2.1.2.

University Academic Calendar (Sample):

Figure 2.2.1.1: University Academic Calendar for the academic year 2024-25 (Annexed Separately)

The Program Educational Objectives (PEOs) are established to guide the programme and prepare the graduates to achieve career and professional accomplishments. The PEOs are further transformed into specific student performance and behaviors that demonstrate students learning and skill development as Program Outcomes (POs). POs are clearly and unambiguously defined. As our college is affiliated with JNTU, Kakinada, we follow the curriculum prescribed by JUTU, Kakinada.

Department Academic Calendar (Sample):

Figure 2.2.1.2: Department Academic Calendar for Semester – II of the academic year 2024-25 (Annexed Separately)

- The departmental academic calendar is prepared for the academic year by conducting faculty meetings and considering the suggestions made by the Department Advisory Committee (DAC).
- The HoD conducts meetings before the commencement of the semester for course allotment. He also requests that the principal allot faculty to interdisciplinary courses. The timetable coordinator prepares time tables well in advance based on the central coordinators instructions and gets approval from the principal.
- Course allotment is done well in advance for the staff members; therefore, they prepare lesson plans, lecture notes, tutorials, assignments, and course files well in advance.
- Faculty members handling laboratories will prepare a lab schedule with a list of experiments to be conducted and laboratory manuals well in advance. Laboratory schedules and student batch divisions are prepared with reference to the finalised timetable. The batch strength is limited to two or three.
- The faculty members of the department adopt various teaching and learning methodologies to create the best learning environment for students, which is included in the lesson plan. The departmental academic calendar for II Semester for the academic year 2022-2023 is shown in the above figure. 2.1.2.

Sample Time Table:

Figure 2.2.1.3: Department Time Table for Semester – II of academic year 2024-25 (Annexed Separately)

For each course, a course file is prepared by the faculty members concerned. The course file consists of the following items, as shown in the below table:

S. No	CONTENT
1	Content Page
2	Vision and Mission of the Institute
3	Vision and Mission of the Department
4	Program Outcomes (POs)
5	Program Educational Objectives (PEOs)
6	Program Specific Outcomes (PSOs)
	Course Information Sheet
7	Academic Calendar
8	Class Time Tables
9	Course Syllabus
10	Course Outcomes (Cos) with BT Level Mapping
11	Course Outcomes Mapping with POs and PSOs
12	Lesson Plan
13	References and Web References
14	NPTEL Videos / You Tube Videos Links
15	List of Gaps within & Topic beyond the syllabus – Mapped to CO, POs and PSOs with Justification and proposed mode of addressing
16	Lecture Notes – Unit wise including Gaps
17	List of Power Point Presentations
18	Unit wise Question Bank with CO and BT levels with Answers
19	Assignment Questions with CO and BT levels with key
20	Award List and sample proof
21	Objective Type Questions with Key
22	Mid Question Paper with CO and BT levels with Key
23	Award List and sample proof
24	Scheme of evaluation with CO and BT Level mapping
25	Tutorial topics with evidence both material and attendance
26	List of slow and advanced learners Based on previous semester / up to previous semester Based on faculty observations up to 3 weeks Based on 1st mid exams
27	Remedial Class for slow learners – schedule and contents / materials
28	Remedial class attendance sheet with delivery record
29	Advanced Learners – Engagement documentation For Preparation of Practicing writing Programming
30	Course Outcomes & its PO Attainments (Plan & Executions)
31	Course end survey form, filled forms and analysis

32	Students feedback on faculty and BT Level analysis, corrective measured planned – 3rd & 13th week
33	Observation for not attaining CO or for improvement
34	Plan of action to improve CO attainment next time
35	Attendance register (including Theory / Tutorial) – Teacher / Course delivery record , continuous evaluation
36	Course file (Digital form) – all the above contents

Table 2.2.1.1: Content for Course File

Impact analysis

- A coherent framework was provided for smooth and efficient teaching, so course contents are effectively delivered in the stipulated time. By preplanning their academic calendar, students could plan their academics and utilize the resources properly.
- More students efficiently utilized the inter-college and inter-departmental events like Avishkar- Techno Cultural Fest, guest lectures, workshops, field visits, etc.
- Students effectively planned for industry interactions on vacation. So, the number of students who participated in summer training increased.

B. Use of various instructional methods and pedagogical initiatives (3)

Improving instruction methods using pedagogical initiatives

The head of the department conducts meetings with all the faculty members to discuss the various teaching and learning methods before each semester. He discusses how to initiate different teaching methods to create the best learning environment for students. Subject experts and domain coordinators give their suggestions and discuss different innovative techniques. Finally, after discussion, faculty members adopted various innovative teaching and learning methodologies based on available facilities on campus and planned events.

Well-structured lesson plans, lecture notes, and tutorial questions with keys are prepared and revised for all theory and practical courses on a period-to-period basis and are scrutinized by the HoD.

- The following facilities and teaching aids are available on campus for delivering lectures: In every classroom, projectors with Wi-Fi facilities are used for teaching purposes.
- Internet facilities and different reference books are available to students and faculty in the library.
- Faculty members are taking advantage of sources like the National Programme on Technology Enhanced Learning (NPTEL).
- Learning (NPTEL), Internet sources for effective teaching Chalk and talk, LCDs, etc. are used for teaching purposes. Various journals are available on campus, and they are utilised for research and project-based learning.

Sample Lesson Plan:

Figure 2.2.1.4: Lesson Plan for CNS of Semester – I for academic year 2024-25 (Annexed Separately)

Various Instructional Methods and Pedagogical Initiatives

The Department Committee (DC) identified and finalized various instructional methods and pedagogical initiatives. The faculty members are instructed to use three or four of them. The same will be included in the lesson plan.

The following facilities and teaching aids are available on campus for delivering lectures:

In every classroom, projectors with Wi-Fi facilities are used for teaching purposes.

- Internet facilities and different reference books are available to students and faculty in the library.
- Faculty members are taking advantage of sources like the National Programme on Technology- Enhanced Learning (NPTEL).

AcademicYear:2024-25

Various Instructional Methods and Pedagogical Initiatives

S. No.	Description	S. No.	Description
T1	Chalk & Talk (C&T)	T8	Assignment (ASG)
T2	Slides/PPT (S/P)	T9	Brain Storming (BS)
T3	Videos	T10	Online Lecture / Google Class Room (OL)
T4	Seminar (sem)	T11	Real Time Case Studies (RTCS)
T5	Quiz	T12	Journal Articles Review (JAR)
T6	Group Discussion (GD)	T13	Industrial Visit (IV)
T7	Expert Talk/Guest Lecture (ET/GL)	T14	Think Pair Share (TPS)

Table 2.2.1.2: List of various instructional methods and pedagogical initiatives

Teaching Methods adopted for Courses

Program: **B. Tech in Computer Science and Engineering** Academic Year: **2024-25(Semester-I)**

S. No.	Course Name	Teaching Methodology														Number of Text Books	Number of Reference Books	Number of Web References
		1	2	3	4	5	6	7	8	9	10	11	12	13	14			
1	Cloud Computing	Y	Y		Y	Y	Y									2	3	2
2	Ethical Hacking	Y	Y			Y	Y									2	3	2
3	Social Networks and Semantic Web	Y	Y		Y	Y	Y									2	3	2
4	Universal Human Values	Y	Y		Y					Y						2	3	2

5	Electronics Measurements & Instrumentation	Y			Y	Y	Y		Y						2	2	3	
6	Remote Sensing And GIS	Y	Y		Y	Y	Y	Y	Y						2	2	4	
7	Computer Networks	Y	Y					Y							2	3	3	
8	Environmental Management	Y	Y		Y		Y		Y						2	2	6	
9	Design And Analysis of Algorithms	Y	Y		Y	Y	Y								2	3	2	
10	Data Warehousing and Datamining	Y	Y					Y							3	1	1	
11	Software Project Management	Y	Y		Y		Y		Y						3	1	3	
12	Oops through Java	Y	Y		Y	Y	Y								2	3	2	
13	Discreate Mathematics& Graph Theory	Y			Y	Y	Y	Y							2	1	2	
14	Advance Data Structures and Algorithms	Y	Y												2	2	2	
15	Universal Human Values	Y			Y					Y					2	2	2	
16	Digital Logic & Computer Organization	Y	Y												3	1	1	
TOTAL		16	13	0	11	8	10	4	4	1	1	0	0	0	0	35	35	39

Table 2.2.1.3: List of various instructional methods and pedagogical initiatives adopted in Semester-I

Program: **B. Tech in Computer Science and Engineering** Academic Year: **2024-25(Semester-II)**

S. No.	Course Name	Teaching Methodology														Num ber of Text Books	Numbe r of Referen ce Books	Numb er of Web References
		1	2	3	4	5	6	7	8	9	10	11	12	13	14			
1	Machine Learning	Y			Y				Y							2	5	8
2	compile Design	Y	Y		Y	Y	Y	Y	Y							2	3	6
3	Disaster Management	Y			Y	Y	Y		Y							2	3	6
4	Cryptography and Network Security	Y	Y		Y											2	3	2
5	Object Oriented Analysis and Design	Y	Y		Y	Y	Y									2	3	2
6	Managerial Economics Finacial Analysis	Y			Y	Y	Y	Y								2	1	2
7	Operating Systems	Y	Y	Y		Y	Y		Y							2	2	4
8	Database Management Systems	Y	Y		Y		Y		Y							3	1	3
9	Software Engineering	Y	Y	Y	Y	Y	Y									2	4	3
10	Probability & Statistics	Y	Y		Y	Y	Y	Y								3	2	2
TOTAL		10	7	2	9	7	8	3	5	0	0	0	0	0	0	22	27	38

Table 2.2.1.4: List of various instructional methods and pedagogical initiatives adopted in Semester-II

Impact analysis

Positive outcomes were observed after adopting the innovative teaching and learning methods. They are:

- Improved student performance in various courses.
- Improved attendance of students from the start of the semester to within a week.
- Active participation of students in outcome-based education activities.
- Better relationship between students and faculty towards research.

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

Guidelines to identify weak students:

The counselors and class in charge regularly conduct meetings regarding the progress of their mentees and are responsible for identifying students who scored less than 60% in their internals and/or fail in semester examinations. Under the HoD direction, the students' counselors evaluate the progress cards of those students who score below 60% marks in three or more subjects and below 75% attendance and are considered academically weak students, and the same is also communicated to their parents.

Identification Criteria	Actions taken
-------------------------	---------------

Students who fail in semester exams.	<ol style="list-style-type: none"> 1. A student counselor follows their progress regularly, advising students about attending classes, making up classes, and getting additional help. 2. Intimating parents to counsel their wards 3. Conduct of remedial classes 4. Conduct of remedial classes 5. Solving previous question papers during tutorial classes. 6. Intimating parents to counsel their wards
Students scoring less than 60% of marks in internal assessment.	
Slip test in prerequisite course	
The students who are irregular in class and have attendance less than 75%	
Students who entered with a diploma had less knowledge of the basics of mathematics.	

Table 2.2.1.5: Process to identify the weak students and action taken

Methodologies to support weak students and encourage bright students

Under the HoD 's directions, class in-charges, counselors, and course faculty members identify those students who fall under the weak students' category as per the above guidelines. Course faculty members conduct remedial classes for weak students. At that time, they solve previous university examination question papers. Each course faculty member identifies the performance of weak students after the completion of internal examinations and also takes corrective actions like conducting revision classes and slip tests for weak students.

The process of identifying and encouraging weak and bright students is shown below figure:2.2.1.5

Figure 2.2.1.5: Process to identify the weak and bright students and action taken (Annexed Separately)

Strategies to Improve Performance of Weak students and Bright Students

Bright Students (Good academic performance i.e. more than 60% till the current semester)	Weak Students (Poor academic performance i.e., three or more backlogs)
1. Shared classroom activities <ul style="list-style-type: none"> Student seminars, Poster presentation Class room activities like quiz, debate, etc. Peer learning 	1. Shared classroom activities <ul style="list-style-type: none"> Tutorials related to basics Solving previous university papers Conducting revision practice tests beyond working hours
2. Professional Development <ul style="list-style-type: none"> Technical training, Workshops, Internship Competitive exams and higher studies 	2. Remedial classes <ul style="list-style-type: none"> Lagging concepts Difficult subjects
3. Nurturing Student Creativity <ul style="list-style-type: none"> Intercollegiate fest, State & National events 	

Table 2.2.1.6: Tasks carried out to improve performance of weak students and bright students

Students Participation & Achievements in Co-Curricular Activities

S. No	Academic Year	No. of Participants		Award Received Within the State			Award Received Outside the State			Total no. of Achievements Received
		Within The State	Outside The State	First Prize	Second Prize	Third Prize	First Prize	Second Prize	Third Prize	
1	2023-24	-	6	-	-		-	2	4	6
2	2022-23	-	2	-	-		-	2	-	2
3	2021-22	2	2	2	-	-	-	2		4

Table 2.2.1.7: Summary of student participation & achievement for assessment period.

Sample Remedial Class Work Schedule:

Figure 2.2.1.6 Remedial class work schedule and student participation(Annexed Separately)

Sample performance analysis for slow learners is shown in below

Figure 2.2.1.7: Performance Analysis of Weak Students (Annexed Separately)

Impact analysis:

- New view points and new project ideas are derived in class from bright students. The skills or abilities of students improved.
- Technical papers, document preparation, and presentation skills improved. Weak student academic performance increased.
- Due to counseling and tutorial classes, the confidence level of the weeks students was boosted.

D. Quality of classroom teaching (Observation in Lab) (3)

The following innovative teaching methods are adopted by the faculty:

- Well-structured lesson plans, lecture notes, and tutorial questions with keys are prepared and revised for all theory and practical courses from time to time and scrutinized by the HoD.
- In the classrooms, computers with internet facilities are used for teaching purposes. Internet facilities are available to students and faculty in the digital library.
- Faculty members are taking advantage of sources like the National Programme on Technology Enhanced Learning (NPTEL) and Internet sources for effective teaching. Smart boards and LCD projectors are used for teaching purposes.
- Various journals are available on campus.
- Every classroom in the department is equipped with LCD projectors and proper ventilation to help the students concentrate on the lectures. Faculty will take attendance within 5 minutes after entering the class.
- Class in-charges will monitor whether the faculty are taking classes according to the timetable or not.
- Every day, the heads of the departments will inspect the classroom teaching during the first hour, after the break, and after the lunch hours. The dean of academics and principal will also frequently inspect the departments during working hours.

Figure 2.2.1.8: Quality of Classroom Teaching (Annexed Separately)

E. Conduct of Experiments Continuous Assessment in laboratory (3)

Conduct of Experiments:

- All the laboratories in the department are maintained neatly, with equipment in good working condition. Also, proper care is taken regarding safety and protection in the laboratory.
- Students should report to the respective lab as per the schedule.
- The batch-wise division made in the beginning should be adhered to, and no mix-up of students among different groups will be permitted later. Students are required to prepare thoroughly to perform the experiment before coming to the laboratory.
- Each batch will get the equipment by submitting the indent to the lab assistant and conducting the experiment.
- After connections are completed, students need to get them verified by the staff in charge, and then only the supply has to be turned on. Students have to conduct the experiment by following the procedure mentioned in the observation and recording the readings.
- When the experiment is completed, students should disconnect the setup they made and return all the components and instruments taken for the purpose. Any damage to the equipment or burn-out of components due to the negligence of the student will result in a penalty being awarded.
- After completion of the experiment, the student should get the observation book corrected by the staff in charge of that lab.
- The record of observations along with the detailed experimental procedure of the experiment performed in the immediate last session should be submitted.
- The curriculum stipulates 2 or 3 laboratory courses per semester from 1st to 7th.
- Students carry out more than the required number of experiments, beyond the minimum specified by the university. All laboratories have excellent facilities with the required equipment.
- For the experiments, detailed instruction manuals are provided.
- The observations are checked and verified by faculty, and record books are maintained. Course faculty members and one instructor or technical staff member are assigned for each practical class.
- Additional lab facilities are available beyond working hours.
- We provide 2 or 3 additional experiments in each laboratory. Those who are interested can utilise the facilities during additional lab facility time.

S No	COURSE	ASSOCIATED LABORATORY
Semester 1		
1	Communicative English	Communicative English Lab
2	Engineering Chemistry	Engineering Chemistry Lab
3	Introduction to Programming	Computer Programming Lab
Semester 2		
1	Engineering Physics	Engineering Physics Lab
2	Basic Electrical and Electronics Engineering	Electrical and Electronics Engineering Workshop
3	Data Structures	Data Structures Lab
Semester 3		
1	Advanced Data Structures & Algorithm Analysis	Advanced Data Structures & Algorithm Analysis Lab
2	Object Oriented Programming Through Java	Object Oriented Programming Through Java Lab
Semester 4		
1	Operating Systems	Operating Systems Lab
2	Database Management Systems	Database Management Systems Lab
Semester-5		
1	Computer Networks	Computer Networks
2	Data Warehousing and Data Mining	Data Warehousing and Data Mining Lab
Semester-6		
1	Machine Learning	Machine Learning using Python Lab
2	Compiler Design	Compiler Design Lab
3	Cryptography and Network Security	Cryptography and Network Security Lab
Semester-7		
UML & Design Patterns	UML Lab	

Table 2.2.1.8 List of Course to be offered with Laboratory Experiments

F. Continuous Assessment in laboratory (3)

- A continuous assessment system is also implemented for the assessment of laboratory work.
- The assessment is done on the basis of the submission of laboratory records, understanding of the experiment through participation in performing the experiment, and viva voce.
- In every lab session, faculty update student record marks in the teacher's attendance register.
- For practical subjects, there will be continuous evaluation during the semester for 30 internal marks and 70 end examination marks as per JNTUK R23 Regulations.
- For practical subjects, there will be continuous evaluation during the semester for 15 internal marks and 35 end examination marks as per JNTUK R20 Regulations.
- For practical subjects, there will be continuous evaluation during the semester for 20 internal marks and 30 end examination marks as per JNTUK R19 Regulations.
- For practical subjects, there will be continuous evaluation during the semester for 25 internal marks and 50 end examination marks as per JNTUK R16 Regulations.

Impact analysis:

- New view points and new project ideas are derived in the lab.
- Improvement in the analytical abilities of students thus improves placement.
- The stimulating environment created in laboratories is based on additional lab facilities, additional experiments, and mini-projects. It made students learn other technical aspects aside from the curriculum.
- Good results in the laboratory examination.

G. Student feedback of teaching learning process and actions taken (6)

The teaching and learning system followed by any educational institution needs continuous refinement. To facilitate the process of continuous refinement, the institution has adopted a feedback system that takes suggestions from students in each program. This eventually helps to tune the teaching and learning process. The same process was followed in our institution as a well-defined and formal feedback system. The feedback system has been identified as one of the important processes in our quality management system.

Feedback collection process

- Collecting feedback for all the courses twice in a semester Manually. The student feedback collection process is described in the flow chart in the figure 2.2.1.9 given below.
- Once the feedback collection process is completed, the reports are generated.
- The consolidated report containing grades for each faculty is sent to the respective head of the department, and the information is circulated to the faculty of the department for necessary action.

Process Steps for Student's Feedback**Figure 2.2.1.9: Flow chart for student feedback process (Annexed Separately)****Feedback Analysis Process**

- The feedback analysis is generated automatically.
- The feedback collected from students is first analyzed at the level of the HoD and then at the level of the principal.
- The contents of the feedback will be shared personally with each faculty member.
- The feedback on faculty is taken from the students, and the average is calculated.
- The faculty member who gets less average feedback is identified by the HoD, and he or she will be asked to submit an explanation to him. The student will select any one of the levels corresponding to each parameter for current semester courses.

Actions Taken Procedure:

- The increments and promotions are given based on input from a 5-point scale of student feedback in the faculty appraisal form.
- Those with low scores will be counseled and asked to improve their performance in the subsequent semesters by taking help from senior and experienced teachers or attending pedagogical training or other faculty development programmes as per necessity.
- The faculty members are constantly motivated by giving a word of appreciation in the departmental meetings.
- Normally, the feedback of the students is used to improve the performance of the faculty members. They are advised to improve in specific areas like blackboard management, class control, effective teaching, usage of teaching aids, etc.
- Regular training programs in collaboration with NITTTR and FDPs by experts from industry and academia are organized every year to train the faculty members in teaching methodologies and e teaching-learning process.
- Apart from this, the faculty members are encouraged to attend various faculty development programmes (FDPs), seminars, and workshops to up their skills.
- If needed, explanation from the faculty will be demanded for any inappropriate result, and subsequent action will be taken to improve the performance of the faculty member.

Figure 2.2.1.10: Sample Feedback form for a faculty member collected from the students (Annexed Separately)**Figure 2.2.1.11.: Feedback summary for a faculty member collected from the students (Annexed Separately)****Evaluation form by HOD for the action taken:****Figure 2.2.1.12: Process of feedback evaluation by Head of the Department (Annexed Separately)**

Details of Computer Science and Engineering faculty members who got awards and rewards based on their best performance in the last three years

Corrective Actions	No. of Corrective Actions in Last 3 Years		
	2023-24	2022-23	2021-22
Awards / Rewards	4	4	2
No of faculty members Counseled for below average performance	2	2	2

Table 2.2.1.9: Summary of corrective measures in assessment period**Action Taken based on feedback for the academic year 2023-24:**

The following teachers identified as the best teachers based on the student feedback, and one teacher from each class was given an appreciation certificate

1. Mr. V V B Chari
2. Mrs. L Mounika
3. Mr. A Madhav Reddy

The following teachers are supposed to be nominated to attend faculty development programmes:

1. Mrs. Ch Rekha

2.Mr. G Mohan Singh Yadav

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

Institute Marks : 20.00

2.2.2. Quality of internal semester question papers, Assignment and Evaluation

A. Process for internal semester question paper setting, evaluation and effective process implementation (5)

Internal Assessment:

The institute conducts two midterm examinations after completing the 8th and 16th weeks, respectively, based on the academic calendar issued by JNTU, Kakinada. Each midterm examination covers half of the syllabus, and the midterm examinations are conducted for the marks as per the university. The duration of the midterm examination is one and a half hours, and the question papers are set by the concerned course faculty member. An online quiz exam is conducted by JNTU Kakinada and consists of 20 objective questions, each carrying a half mark. The department has a scrubbing committee called PAC (Program Assessment Committee), comprised of HoD and senior faculty members, to check the quality of the question paper, bloom taxonomy levels, and CO compliance.

The midterm question papers are prepared in 3 sets from half of the syllabus for the first midterm examination and the second half of the syllabus for the second midterm examination, along with Blooms taxonomy levels and CO compliance. The three sets of question papers are verified by the PAC (Program Assessment Committee). According to the level of toughness, the questions are prepared (viz., by analyzing the problems, implementing modern tools, formulating the problems, etc.), which is termed Bloom's taxonomy level. For each question, the teacher mentions the marks, outcome number, and Bloom's taxonomy level. The previous university examination papers are considered for the preparation of the question paper. For each course, three sets of question papers have to be submitted to the Examination Section. The Examination Section will select any one set for the midterm examinations.

The faculty members explain the solutions to the midterm examination question paper in the classroom, which will enable them to perform well in the final examination. The subject faculty members prepare the scheme of evaluation for the question paper and then evaluate the answer papers based on the scheme. The marks are evaluated based on the regulations guidelines. Finally, the marks scored by the student are distributed in the classroom and displayed on the notice board.

Figure 2.2.2.1: Process for preparation of mid examination question paper (Annexed Separately)

Midterm Examination Conducting Process:

Procedure for the Conduction and Evaluation of Internal Assessment Tests:

- The schedule for the midterm examinations will be displayed on the notice board one week prior to the commencement of the midterm and quiz examinations.
- The students write the midterm examination in their allotted seats in an examination hall, under the invigilation of a faculty member.
- The scheme of evaluation for the question paper is prepared by the course coordinator, ensuring an appropriate distribution of marks for a fair valuation as per the university norms.
- The faculties explain the solutions to the questions in the classroom after every midterm examination, which will enable them to perform well in the final examination.

Assignments Conducting Process:

- The course faculty or course coordinator announces the assignment topic and submission date and communicates with the class.
- Assignments are designed in such a way to promote self-learning from various sources.
- Assignments are evaluated for 5 marks, and feedback is given to the students to improve their learning and appreciate their efforts.

Initiatives for implementation of Quality Assessment:

- Assignments promote practice.
- Assignments may include theory, design, analysis, and problems.
- A minimum of two assignments are given for every course, and each assignment is evaluated for 5 marks.
- The assignments are being practiced for the continuous improvement of learning capabilities and for good writing skills. These assignment questions are prepared as per Blooms Taxonomy levels.

B. Process to Ensure Questions from an Outcomes/Learning Levels Perspective (5)

Every course coordinator is responsible for analyzing the quality of the question paper, mapping with COs, and Bloom Taxonomy Levels. The scheme and solution of the internal question paper are maintained by the course coordinator.

Figure 2.2.2.2 Bloom's Taxonomy Levels (Annexed Separately)

The DAC will suggest modifications to the question paper in case of any discrepancies and verify them.

Program Assessment Committee is responsible for ensuring the quality of question papers in the department. External Examination question papers are set by eminent persons from reputed educational institutions as per the supplied syllabus and in line with COs and Bloom's taxonomy, and the same is moderated or verified by the course coordinator at the examination branch on the day of the examination.

Rubrics are prepared for project evaluation by the project coordinator.

Attainment of COs and POs is calculated after the evaluation of answer sheets, and the gaps are identified to address the curriculum gaps.

C. Evidence of COs coverage in class test / mid – term tests (5)

Figure 2.2.2.4: Mid examination - I question paper for Ethical Hacking (Annexed Separately)

Figure 2.2.2.5: Mid examination - II question paper for Ethical Hacking (Annexed Separately)

D. Quality of Assignments and its elegance to COs (5)

Assignments:

- The course coordinator announces the assignment topic and submission date and communicates to the class.
- Assignments are designed in such a way to promote self-learning from various sources.
- Assignments are evaluated for 5 marks, and feedback is given to the students to improve their learning and appreciate their efforts.
- Assignments shall be in the form of problems, mini-projects, design problems, slip tests, quizzes, etc., depending on the course content. It should be a continuous assessment throughout the semester, and the average marks will be considered.

Sample Assignment Question Paper

Figure 2.2.2.6 Assignment - I question paper for Ethical Hacking (Annexed Separately)

Figure 2.2.2.7 Assignment - II question paper for Ethical Hacking (Annexed Separately)

Academic Year: 2024-25 (Semester-I)

Sl. No	Course	COs Mapped in MID-I	COs Mapped in Assignment-I	COs Mapped in MID-II	COs Mapped in Assignment-II
1	Oops Through Java	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
2	Discrete Mathematics& Graph Theory	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
3	Advance Data Structures and Algorithms	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
4	Universal Human Values	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
5	Digital Logic & Computer Organization	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
6	Computer Networks	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
7	Environmental Management	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
8	Design And Analysis of Algorithms	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
9	Data Warehousing and Datamining	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
10	Software Project Management	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
11	Cloud Computing	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
12	Ethical Hacking	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
13	Social Networks and Semantic Web	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
14	Universal Human Values	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
15	Electronics Measurements& Instrumentation	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
16	Remote Sensing and GIS	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5

Academic Year – 2024-25 (Semester -II)

Sl. No	Course	COs Mapped in MID-I	COs Mapped in Assignment-I	COs Mapped in MID-II	COs Mapped in Assignment-II
1	Managerial Economics Financial Analysis	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
2	Operating Systems	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
3	Database Management Systems	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
4	Software Engineering	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
5	Probability & Statistics	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
6	Machine Learning	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
7	compiler Design	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
8	Disaster Management	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
9	Cryptography and Network Security	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5
10	Object Oriented Analysis and Design	CO 1, CO 2, CO 3	CO 1, CO 2, CO 3	CO 3, CO 4, CO 5	CO 3, CO 4, CO 5

*Table:2.2.2.1 Consolidated COs mapping with Mid Examinations and Assignments***2.2.3 Quality of student projects (25)**

Institute Marks : 25.00

2.2.3. Quality of Student Projects (25)

Initiatives:

1. The student's projects are selected in line with the departments vision, mission, and program outcomes.
2. Students are provided knowledge about different domains and broad areas for selecting their projects.
3. The list of previous years projects is displayed on a notice board, which ensures no repetition of projects.
4. The faculty members encourage the students to do project work with the facilities available in the department. Further, students are advised to take up industry projects.
5. The faculty members help the students avail themselves of external funding schemes for their project work.
6. The faculty members encourage the students to present posters and exhibit their work.
7. Students are encouraged to publish and present their project work in various journals and conferences.
8. Students are allowed to form groups that consist of a minimum of 3 or a maximum of 4 members.
9. If the students are not able to form the group, then the project coordinator will help them do so.
10. Implementation: The project coordinator is appointed by the head of the department and is responsible for the planning, scheduling, and execution of all the activities related to the student project work.

The Department Project Review Committee (DPRC), consisting of the Head of the Department, senior faculty members, and the Project Coordinator, evaluates and identifies the best projects by considering factors such as environment, safety, ethics, and cost.

Figure 2.2.3.1 : Project Process Flow Chart (Annexed Separately)

Details of Project Implementation:

Table 2.2.3.1: Details of project implementation

Task		Particulars			
Call for project batch and guide allotment		Students are asked to prepare their batch with the help of project coordinator of the department. With respect to the areas of interest of each guide the batches will be allotted with guides.			
Call for Project Titles		Students are instructed to submit the title of the project in consultation with their respective guide to the project coordinator.			
Synopsis submission		The student submitting project titles are pre-evaluated by a team of faculty.			
Project title finalization and Abstract submission		The submitted project titles are reviewed by a committee consisting of Project coordinator, Head of the department and some senior faculties (project committee).			
First Review		Students are instructed to submit software requirement specification and give a power point presentation for the project (Evaluation phase I by a team of faculty)			
Second Review		Students are instructed to submit design documents of the project and give a PowerPoint presentation for the project (Evaluation phase II by a team of faculty)			
Final demonstration		Students are instructed to submit complete project report with university compliance and give a PowerPoint presentation for the project (Evaluation phase III by a team of faculty)			
Project internal marks announcement		The marks for the project work are announced and processed according to the university regulation			
Components		Criteria	Exceptionally well Executed (M>90%)	Good with Room Improvement (70%)	Meets Minimum Requirement (M<70%)
Demo of the project	5	Functionality	Task is broken into well thought out elements with good length, reusability and efficiency	Task broken into elements. Length, reusability and efficiency need to be taken care.	Code elements exist, no reusability and efficiency.
	5	Testing	All boundary cases are considered and tested. Program handles erroneous or unexpected input and meets all requirements.	All boundary cases are considered and tested. All obvious error conditions are checked and may not meet all the requirements.	Most boundary cases are considered and tested. Some error conditions are checked but did not meet all specified requirements.
Power Point Presentation	5	Content	Excellent organization of slides.	Contains all the details of the project, but slide organization are average.	Slides do not meet the minimum standard.
	5	Presentation	Excellent communication maintaining time limit.	Average communication skill, but time limit is followed.	Average communication skill, time limit also not followed.

Documentation	5	Synopsis	Well written synopsis clearly indicating the problem.	Synopsis clearly indicates the problem	Synopsis prepared without clear indication of problem
	5	Literature survey	Excellent. Referred international journals.	Good. Referred national journals.	Poor literature survey
	5	Schematic diagram and source code	Schematic diagram and source code clearly mentioned in the report	Missing source code or schematic diagram	Missing source code and schematic diagram
	5	Results and conclusion	All the results are clearly mentioned in the report and the conclusion is well written.	Report does not contain all the relevant results.	Report does not contain all the relevant results. Conclusion is also not written properly.
Question and answers	10		Student is able to answer all the questions related to	Student is able to answer all the questions related to his/her project	Student is not able to answer many of the questions

Table 2.2.3.2: Rubric for Internal Project Evaluation

Figure 2.2.3.2: Project Process Flow Chart (Annexed Separately)

Rubrics format for Seminar Evaluation

Components	Marks(M)	Exceptionally well executed (M>90%)	Good with room for improvement(70%)	Meets minimum requirement (M<70%)
Selection of topic	10	Very good. Latest topic	Good. Related to new areas in CSE.	Topic selected is not new.
Literature survey	10	Excellent. Referred international journals.	Good. Referred national journals.	Poor literature survey
Power point presentation	15	Excellent organization of slides. Effective communication.	Contains all the details of the topic, but slide organization are average. Average communication.	Slides do not meet the minimum standard. Voice clarity is poor.
Seminar report	10	Well written document. All information clearly organized.	Report gives enough information about the topic	Report prepared without enough information about the topic
Questions and answers	5	Student is able to answer all the questions related to his/her seminar.	Student is able to answer all the questions related to his/her seminar except one or two.	Student is not able to answer many of the questions related to his/her seminar.

Table 2.2.3.3. Rubrics format used for seminar evaluation

A. Identification of Projects and Allocation Methodology to Faculty Members (3)

D. Process of Assess individual and team performance (5)

The project coordinator identifies the different research areas. DPRC identified research areas such as data mining, information security, network security, cloud computing, e-commerce, deep learning, data security, cloud security, cyber security, and web mining.

Department Project Review Committee (DPRC):

- The DPRC committee will be responsible for evaluating the timely progress of the projects and communicating the progress report to the students.
- At the end of the second semester of the third year (VI semester), the Department Project Review Committee should finalize the list of student batches with their projects, the list of available supervisors with their interesting research areas, and the list of identified research areas by the department if any research work is going on or specified by any faculty member.
- The list of all the projects conducted in the last 3 academic years by the department will be maintained along with their supporting documents like literature surveys submitted by the student groups, project evaluation forms, etc.
- It is ensuring that the department is equipped with high-quality laboratories so that the students have access for their project purposes.
- In case it is observed by the DPRC that any group of students is not performing well, the committee should take special care to improve their performance by counselling them.

Academic Year 2024-25

The following faculties are nominated as members of the departmental Project Review Committee (DPRC) to evaluate the project work of IV B. Tech. students:

S. No.	Name of the Faculty	Designation	Position
1	Dr. M Anand Kumar	Head of the Department	Chairman
2	Dr. G Samba siva Rao	Professor	Coordinator
3	Dr. P Suresh	Professor	Member
4	Dr. G Madhava Rao	Professor	Member

5	Mr. V V B Chari	Asst. Professor	Member
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Table 2.2.3.4: Department Project Review Committee for the academic year 2024-25

Objectives of DPRC:

1. DPRC should follow the academic regulations R20 for B.Tech. (Regular) issued by JNTUK, Kakinada.
2. DPRC is responsible for the internal evaluation of each students project work.
3. DPRC should be aware of POs and PEOs.
4. DPRC should check whether the plan of action meets the project requirements or not.
5. DPRC should verify whether the project work meets the plan of action specified in review 1 or not in terms of scope, quality, and time period for module implementation.

Allocation of Supervisor:

Each project activity must be supervised by the faculty members of the department. These faculty members are termed supervisors. There can be at most two supervisors for a B. Tech. project, out of which at least one has to be from the department and the other can be from outside the department or institute. However, in order to select a supervisor from outside the institute, the department has to get prior permission from the principal.

Project group formation:

Each B.Tech. project has to be carried out by a group of students from the department. In order to ensure the participation of each student, the group size should be preferably at least 3 but not more than 4 students. The formation of project groups should be done such that each group has representation of students with varying academic merit, from best to average. In view of this, the following practice may be followed:

1. Decide the total number of feasible groups. Any left-out student(s) should be randomly assigned to any group. Enlist the students in the order of their previous years merit.
2. Depending on the number of groups to be formed, identify the group members in order of merit.
3. After forming the project groups, students should select the project supervisor based on the procedure specified by the DPRC and submit the project registration letter to the project coordinator. In cases where the project is multi-disciplinary, a project group can be formed consisting of students from other departments. But there must be at least one student from the department who is offering the project.

Evaluation Procedure:

The project work shall be evaluated for 200 marks, out of which 60 marks are for internal evaluation and 140 marks are for end-of-semester evaluation. To ensure proper conduct of each project, the progress of each project should be monitored on a continuous basis, first by the supervisor and then by the Department Project Review Committee. In order to do so, it is planned to hold two presentations to be made by each project group. The evaluation shall be done on the following basis:

Zero th Review 1 (Preliminary Evaluation): 0 marks	Review 1 (Implementation Evaluation): 40 marks
Review 2 (Implementation Evaluation): 40 marks	Review 3 (Implementation Evaluation): 40 marks
End - Semester Evaluation: 140 marks	

The internal marks are average of all reviews =40 Marks

Supervisor Evaluation:

Every supervisor should evaluate the respective project group based on the day-to-day evaluation through the "Project Work Book," which should be maintained by the project group, and submit the evaluated marks to DPRC at the time of the respective project group presentation. The project coordinator must arrange regular meetings with students and their supervisor and update their work progress through the project workbook. The meetings may be brief once the students project is under way, but the students supervisor needs to know that the students work is progressing and that it is being evaluated by day-to-day evolution and a weekly project status report. The students must note all concepts, drawings, formulae, derivations, experimental observations, graphs, charts, photographs, data flow charts, and pseudocodes on this note book, which must be produced before all evaluation boards. There shall be no blank pages between the writings.

Guide's/Supervisor evaluation of marks is as follows:

S. No.	Assessment Basis	Maximum Marks
1	Day to day attendance of the student	5
2	Understanding of the topics and clarity on concepts as expressed through presentation	5
3	Experimental, computational or analytical skills learnt during the process	5
4	Initiative, involvement and approach to the work	5
Total marks		T

Table 2.2.3.5: Criteria for Project Guide / Supervisor marks evaluation

Sample Evaluation Form Academic Year -2024-25**IV B. Tech II Semester Project work****Sample Evaluation Form AcademicYear-2023-2024****Review -II / III Evaluation Form**

Note: (R1 to R5 are DPRC members, Remarks are all the DPRC members comments per student and see appendix V for evaluation rubrics)

1. PRC members should be aware of the POs and PEOs of the department and ensure that the project work meets the POs and PEOs.
2. Thoroughly check the quality of the project and whether the work progresses as per the plan of action or not.
3. Collect the faculty evaluation forms and supporting documents for the completed work if they need them.

1. Marks Evaluation

A = Knowledge on selected topic -- 10 M

B = Quality of completed work -- 10 M

C = Student contribution on project --- 05 M

D= Presentation Skills --- 10M

E = Queries answering --- 05 M

Total marks 40 M

S.No	Roll No.	Name of the Student	Name of the Guide	Title of the Project	Review Remarks	A	B	C	D	E	Total	Signature
					R1							
					R2							
					R3							
					R4							
					R5							
					R1							
					R2							
					R3							
					R4							
					R5							

Table: 2.2.3.6: Sample evaluation form for project reviews

This presentation shall be made before the respective project supervisor first, and on his approval, it should be made before the Department Project Review Committee. The second presentation of this project will be planned by the DPRC two weeks after the commencement of the first semester of the fourth year. This presentation will review the following:

- Introduction Problem Statement
- Methodology
- Modules
- Detailed Design
- Equations, design, and software to be used Algorithms/Techniques used
- Expected outcomes
- Plan of action for the project

DPRC should plan for the third presentation. This presentation will review the following:

- Introduction
- Abstract Methodology
- Modules Split-up and Gantt Chart Detailed Design (if any deviation)
- Work progresses towards the proposed system.
- Questions, design, and software to be used Algorithms/Techniques used
- Expected outcomes
- Plan of action for the project (if any deviations)
- References

The final internal presentation will be taken two weeks before the date of the final external presentation. This presentation will be made before the DPRC, and project guide of the department. The final project report should be extensively checked and signed by the supervisors and also by the DPRC. The groups are also required to make a final Power Point presentation.

Sample Assessment of Project Internal Marks for the Academic Year 2023-24

IV B. Tech II Semester Project work Review - Consolidated Report

S.NO.	Regd. No.	R1	R2	R3	R4	R5	Average	Day to Day Evaluation	Total
	Max.Marks	40	40	40	40	40	40	20	60
1	20HM1A0508	40	40	40	40	40	40	20	60
2	20HM1A0533	38	35	40	40	40	39	18	57
3	20HM1A0520	30	34	37	37	37	35	18	53
4	20HM1A0532	40	40	40	40	40	40	18	58
5	20HM1A0535	40	40	40	40	40	40	19	59
		37.60	37.80	39.40	39.40	39.40	38.72	18.6	57
	%Marks	75%	95%	99%	99%	99%	97%	93%	96%
	Attainment	3	3	3	3	3	3	3	3

Table 2.2.3.7: Project internal marks for the academic year 2023-24

R1 to R5 are conducted by DPRC members, marks of all the DPRC members per student should be note in R1 to R4 in marks evaluation table.

R1 = Marks of DPRC member1:	40
R2 = Marks of DPRC member2:	40
R3 = Marks of DPRC member3:	40
R4 = Marks of DPRC member4:	40
R5 = Marks of DPRC member5:	40
Avg. = Average marks of DPRC 1 to 5	40 M
Day to Day Evaluation	20 M
Total	60M

Distribution of Marks for B. Tech Project Work End–Semester Evaluation:

S. No.	Particulars	Max. Marks
1	Literature Survey	10
2	Problem formulation	30
3	Experimental Design and Modules	30
4	Results – H/S Demo, Presentation & Discussion	30
5	Conclusions and scope for future work	10
6	Overall presentation of the Thesis and Oral presentation	20
7	Project Report Writing	30
Total Marks		160

Table 2.2.3.8: Marks Distribution**B. Types and relevance of the Projects and their contribution towards attainment of POs and PSOs (5)****C. Process for monitoring and evaluation (5)**

1. Every week students will meet their guide three times as per schedule.
2. Guide will check their project diary and write comments.
3. Students will work on the comments given by the guide and rectify mistakes.
4. Guide will submit the progress report to the project coordinator and project Coordinator submits them to the HOD.
5. Students have to submit synopsis to the internal guide/co-guide
6. Internal guide/co-guide will give suggestions towards the improvement of the project work. Based on inputs, students have to start their work. In case, the student is doing project outside the institute such as industry internships, he/she has to consult the guide and co-guide towards implementation of the project.
7. The students have to give presentations three times on the project work which is reviewed by the project review committee; Internal guide will be a member of the committee.
8. Upon satisfactory reviews of the projects, project review committee will allow the students for submission of the report.

Evaluation scheme for projects:

1. Project viva voce examiner will be appointed by the JNTUK, Kakinada.
2. There will be a proposed time period to conduct project viva voce-JNTUK, Kakinada examiner will be contacted by the project coordinator to fix a suitable date and informs the same to the students.
3. Project viva voce will be held as per JNTUK, Kakinada schedule.

Impact analysis:

1. New innovative ideas from students form the basis of some projects Skills or abilities (Verbal/Non- verbal) of students improved.
2. Knowledge on various aspects of project management were developed.
3. Confidence level of the students was boosted.
4. Improved teamwork spirit.
5. Implementation and deployment of the project for social benefits.
6. Document preparation and presentation
7. Opportunities to showcase their project work in project exhibition

Students Projects List

Batch No.	Hall Ticket No.	Student Name	Title	Guide	Relevant POs
20CSE1	20HM1A0550	Yakkanti Sai Teja (Team lead)	Email Spam Detection	Dr. G. Samba Siva Rao	PO1, PO2,PO3, PO4,PO5, PO8,PO9,PO10, PO12,PSO1,PSO2
	20HM1A0509	Ediga Vamsi Goud			
	20HM1A0522	Kudumula Sumithra			
	20HM1A0504	Boya Vishnu Vardhan			
	20HM1A0528	Nalagangu Venkata Praveen			
20CSE2	20HM1A0508	Duggimi Sai Kumar(Team lead)	Student/ Employee Attendance Systems through IOT	Dr. Godagala Madhava Rao	PO1, PO2,PO3, PO4,PO5, PO8, PO9, PO10, PO12,PSO1, PSO2
	20HM1A0533	Pathipati Mahesh			
	20HM1A0520	Kavali Narendra			
	20HM1A0532	Pathipati Hemalatha			
	20HM1A0535	RachagorlaJanakiram			
20CSE3	20HM1A0515	Kambam Aswini(Team lead)	Web based Graphical Passwords Authentication System using ML	Dr. Inaganti Shylaja	PO1, PO2,PO3, PO4,PO5, PO8, PO9, PO10, PO12,PSO1, PSO2
	20HM1A0526	Mannuva Mallikharjuna			
	20HM1A0542	Talari Mahesh			
	20HM1A0507	Darnasi Rakshitha			
	20HM1A0552	Yarramareddy Aarthi Reddy			
20CSE4	20HM1A0517	Kandukuri Newton(Team lead)	Heart Disease Prediction using Machine Learning	Dr. Padigala Suresh	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO12,PSO1, PSO2
	20HM1A0502	Bokka Venkat Rao			
	20HM1A0510	Galla Mohan Kumar			
	20HM1A0502	Bejjipalli Jeevamani			
	20HM1A0551	Year Nagapagari Girish			

20CSE5	20HM1A0531	Pallapu Sailaja (Team lead)	Automating E-Government using Artificial Intelligence	Nagam Aanjaneyulu	PO1, PO2, PO3, PO4,PO5, PO8,PO9, PO10, PO12,PS1, SO2
	20HM1A0530	Nunsavathu Tirumala Bai			
	20HM1A0523	Maddirala Himabindu			
	20HM1A0543	Tammu Chandu			
	20HM1A0506	Chitimiti Ashok Chakravarthi Reddy			
20CSE6	20HM1A0540	Shyamala Kavya(Team lead)	Credit card Fraud Analysis using Predictive System In Machine Learning	Vanapamula Veerabrahmachari	PO1, PO2,PO3, PO4,PO5, PO8, PO9, PO10, PO12,PSO1, PSO2
	20HM1A0539	Shaik Roshini			
	20HM1A0537	Sake Vinod			
	20HM1A0501	Addanki Ajay			
20CSE7	20HM1A0545	Thota Venkata Naveen(Team lead)	Chatbot using Artificial Intelligence	Arekatla Jaganmohan Reddy	PO1, PO2,PO3, PO4,PO5, PO8, PO9, PO10, PO12,PSO1, PSO2
	20HM1A0524	Malyam Akhilamma			
	20HM1A0505	Chiruguri Akhil			
	20HM1A0555	Yerikala Ashok			
20CSE8	20HM1A0547	Vallepu Mahalakshmi(Team lead)	Intelligent Agent based Job Search System using React JS and Python	Shaik Guntur Mahabub Subhani	PO1, PO2,PO3, PO4,PO5, PO8, PO9, PO10, PO12,PSO1, PSO2
	20HM1A0527	Meeniga Sravani			
	20HM1A0519	Kapu Vishnu			
	20HM1A0518	Kannedari Vinay Kumar			
	20HM1A0554	Yatham Muthyalu			
20CSE9	20HM1A0548	Velpula Chandrika(Team lead)	Weapon Detection using Artificial Intelligence and Deep Learning for Security Applications	Mr. M. Anand Kumar	PO1, PO2,PO3, PO4,PO5, PO8, PO9, PO10, PO12,PSO1, PSO2
	20HM1A0529	Nalagangu Saran Venkata Achi Reddy			
	20HM1A0538	Sanivarpu Viswas Marreddy			
	20HM1A0546	Vadde Bhargava			
	20HM1A0534	Puli Pushpalatha			
20CSE10	21HM5A0501	Kosuri Lakshmana Rao	Emotion Face Detection using Twitter Datasets and Spacy Algorithm	Arekatla Madhava Reddy	PO1, PO2,PO3, PO4,PO5, PO8, PO9, PO10, PO12,PSO1, PSO2
	20HM1A0536	Raphadu Sreenath			
	20HM1A0525	Manda Ajay			
	20HM1A0512	Gogula Uma Maheswari			
	20HM1A0553	Yatham Mutyalu			

Table 2.2.3.9: Students Projects List

PO1	Engineering Knowledge	PO8	Ethics
PO2	Problem Analysis	PO9	Individual and Teamwork
PO3	Design/Develop solutions	PO10	Communication skills
PO4	Complex problem solving	PO11	Project Management & finance
PO5	Modern Tools usage	PO12	Lifelong learning
PO6	Engineer & Society	PSO1	Professional &Problem –Solving skills
PO7	Environment & Sustainability	PSO2	Successful career and Entrepreneurships.

Overall Mapping for a Batch (2023-24):

C421	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
	3	2.8	3	2.8	2.6	-	-	-	-	2.2	-	-	3	3

Project overall attainment (Project Attainments): Direct Attainment (100 D)

C421	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
	3.00	3.00	3.00	3.00	3.00	-	-	-	-	3.00	-	-	3.00	3.00

Project overall attainment (Project Attainments): Final Attainment (80 D+ 20 ID)

C421	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
	2.96	2.96	2.96	2.96	2.96	-	-	-	-	2.96	-	-	2.96	2.96

Table 2.2.3.10:Project Attainmnet Sheet

E. Quality of completed projects / working Prototypes (5)

Summary Report of Best Projects

The university will appoint an examiner to inspect all the prototypes developed by students as part of their final-year project work and identify the three best projects from every year.

The following table shows the three best projects of the last three assessment years.

Sl. No	Batch No.	Hall Ticket No.	Title	Guide	A.Y.
1	20CSE02	20HM1A0508	Student/ Employee Attendance Systems through IOT	Dr. I. Shylaja	2023-24
		20HM1A0533			
		20HM1A0520			
		20HM1A0532			
		20HM1A0535			
2	20CSE06	20HM1A0540	Credit card Fraud Analysis using Predictive System In Machine Learning	Mr. A. Madhava Reddy	2023-24
		20HM1A0539			
		20HM1A0537			
		20HM1A0501			
		20HM1A0545			
3	19CSE04	19HM1A0541	Blockchain and Machine Learning in Health care and Management	Mr. V.V.B.CHARI	2022-23
		19HM1A0512			
		19HM1A0545			
		19HM1A0518			
		19HM1A0562			
4	19CSE07	19HM1A0520	Exercise Recommendation Method Based on Machine Learning	Mrs. SHAIK ARIFA	2022-23
		19HM1A0551			
		19HM1A0550			
		19HM1A0556			
		19HM1A0574			
5	18CSE01	18HM1A0502	NETWORK TRAFFIC ANALYSIS USING MACHINE LEARNING	Dr. K. Venkataraman	2021-22
		18HM1A0504			
		18HM1A0551			
		17HM1A0514			
		18HM1A0515			
6	18CSE09	18HM1A0547	AUTOMATING E-GOVERNMENT SEVICE WITH ML & AI.	Dr. Sk. Moulali	2021-22
		18HM1A0538			
		18HM1A0555			
		18HM1A0506			
		18HM1A0550			

Table: 2.2.3.11: List of best project for three assessment years

Following is the list of students and a few photographs taken during the project exhibition organized in the department and also in the competitions.

S.No.	Name of the Student	Event	College Name	Prize	Academic Year
1	Addanki Ajay	Project Expo	A. M Reddy Memorial College of Engineering & Technology	First	2023-24
	Chilukuri Akhil				
	Ediger Vamsi Goud				
	KambamAswini				
	Kapu Vishnu				
2	Nalagangu Venkata Praveen	Project Expo	A. M Reddy Memorial College of Engineering & Technology	Second	2023-24
	Patriate Hemalatha				
	Raphadu Sreenath				
	Shaik Roshini				
	Vadde Bhargava				

Table 2.2.3.12:List of Students who recieved prizesin project expo

Photographs during the Project Expo are done at A.M. Reddy Memorial College of Engineering amd Technology in the assessment period

Figure: 2.2.3.3: Student participation in project expo (Annexed Separately)

F. Evidence of papers published / Awards received by projects etc. (2)

A M REDDY MEMORIAL COLLEGE OF ENGINEERING & TECHNOLOGY,

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

List of Publications/Paper and Poster Presentations

Following are the list of publications, papers, posters, competitions participated by students to demonstrate the project outcomes from the last 3 assessment years

Name of the Student	Event	College Name	Prize	Academic Year
B. Jeevamani , P. Pushpalatha	Paper Presentation	A. M Reddy Memorial College of Engineering & Technology	First	2023-24
M. Mallikharjuna, S. Vinod	Paper Presentation	Tirumala Engineeing College	Second	2023-24
Y. Ashok, R. Janakiram	Poster Presentation	St. Marys College of Engineering & Technology	First	2023-24
T. Mahesh, K. Narendra	Poster Presentation	A. M Reddy Memorial College of Engineering & Technology	Second	2023-24
B. Swathi, Ch. Ramya	Paper Presentation	Narasaropet Institute of College	First	2022-23
A. Kavitha, K. Deevena	Paper Presentation	Eswar College of Engineering & Technology	Second	2022-23
P. Divya, H Vannuraswamy	Poster Presentation	A. M Reddy Memorial College of Engineering & Technology	First	2022-23
P. Neelavathi, D. Rafi	Poster Presentation	St. Marys College of Engineering & Technology	Second	2022-23
B. Anitha, A. Siva Prasad	Paper Presentation	Universal College of Engineering & technology	First	2021-22
B. Kishore, Ch. Anusha	Paper Presentation	A. M Reddy Memorial College of Engineering & Technology	Second	2021-22
G. Lokesh, B. Gangadhar	Poster Presentation	Eswar College of Engineering & Technology	First	2021-22
K. Jeevan Kishore, K. Mounika	Poster Presentation	A. M Reddy Memorial College of Engineering & Technology	Second	2021-22

Table 2.2.3.13: Details of project implementation

Figure: 2.2.3.3: Student participation in Paper and Poster Presentations **(Annexed Separately)**

2.2.4 Initiative related to industry interaction (15)

Institute Marks : 15.00

2.2.4. Initiative related to industry interaction

The department has taken following initiatives:

A. Industry collaborated Events (5)

MOU'S with Industries: MOUs with different industries are as shown in the following table.

Table 2.2.4.1: Industry interaction impact analysis through functional MOUs (2024-25)

Sl. No	Name of the Company	Objectives (company objectives towards dept.)	Outcomes	Duration	Event	Impact Analysis
1	Global e- Smart Technologies	Entrepreneurial Skill Development, Outcome Based Trainings, Placement And related services	MOU Sign, Skill Development , Training, Placements	19/05/2024 to 19/05/2025	Workshop on Ethical Hacking	Practical cybersecurity skills to identify and defend against system vulnerabilities, enhancing both personal and organizational digital security.
2	HirotoInd Technologies	Training, Placement, Skill Development, R&D Services And Other Academic Matters	MOU Sign, Skill Development , R&D , Training, Placements	15/05/2024 to 15/05/2025	Technical Training Flask	Build and deploy dynamic web applications, fostering backend development skills essential for modern web development careers.
3	Sinnnovation pvt lmt	Skill Development, Certified Courses, Outcome Based Trainings, Placement And Related Services	MOU Sign, Skill Development , Training, Placements	18/05/2024 to 18/05/2025	Technical talk Network Security	Awareness of network threats and defense strategies, promoting secure communication practices across digital infrastructures.
4	SMART SELECT Solutions	Entrepreneurial Skill Development, Outcome Based Trainings, Placement And Related Services	MOU Sign, Skill Development , Training, Placements	25/05/2024 to 25/05/2025	Technical Talk on Python	Strengthened programming foundations using Python, opening pathways to careers in software development, automation, and data science.
5	Synctra Solutions	Training, Placement, Skill Development, R&D Services And Other Academic Matters	MOU Sign, Skill Development , R&D , Training, Placements	18/05/2024 to 18/05/2025	Technical Talk on Machine Learning	ML concepts and tools, empowering participants to analyze data and develop intelligent systems for real-world problem-solving.

Table 2.2.4.2: Industry interaction impact analysis through functional MOUs (2023-2024)

Sl. No	Name of the Company	Objectives (company objectives towards dept.)	Outcomes	Duration	Event	Impact Analysis
1	Global e- Smart Technologies	Entrepreneurial Skill Development, Outcome Based Trainings, Placement And related services	MOU Sign, Skill Development , Training, Placements	19/04/2023 to 19/04/2024	Workshop on Ethical Hacking	Practical cybersecurity skills to identify and defend against system vulnerabilities, enhancing both personal and organizational digital security.
2	HirotoInd Technologies	Training, Placement, Skill Development, R&D Services And Other Academic Matters	MOU Sign, Skill Development , R&D , Training, Placements	15/04/2023 to 15/04/2024	Technical Training Flask	Build and deploy dynamic web applications, fostering backend development skills essential for modern web development careers.
3	Sinnnovation pvt lmt	Skill Development, Certified Courses, Outcome Based Trainings, Placement And Related Services	MOU Sign, Skill Development , Training, Placements	18/04/2023 to 18/04/2024	Technical talk Network Security	Awareness of network threats and defense strategies, promoting secure communication practices across digital infrastructures.
4	SMART SELECT Solutions	Entrepreneurial Skill Development, Outcome Based Trainings, Placement And Related Services	MOU Sign, Skill Development , Training, Placements	11/04/2023 to 11/04/2024	Technical Talk on Python -	Strengthened programming foundations using Python, opening pathways to careers in software development, automation, and data science.
5	Synctra Solutions	Training, Placement, Skill Development, R&D Services And Other Academic Matters	MOU Sign, Skill Development , R&D , Training, Placements	12/04/2023 to 12/04/2024	Technical Talk on Machine Learning	ML concepts and tools, empowering participants to analyze data and develop intelligent systems for real-world problem-solving.

Table 2.2.4.3: Industry interaction impact analysis through functional MOUs (2022-2023)

Sl. No	Name of the Company	Objectives (company objectives towards dept.)	Outcomes	Duration	Event	Impact Analysis
1	Global e- Smart Technologies	Entrepreneurial Skill Development, Outcome Based Trainings, Placement And related services	MOU Sign, Skill Development , Training, Placements	19/04/2023 to 19/04/2024	Workshop on Devops	To streamline software development and operations through automation collaboration and continuous integration practices
2	HirotoInd Technologies	Training, Placement, Skill Development, R&D Services And Other Academic Matters	MOU Sign, Skill Development , R&D , Training, Placements	15/04/2023 to 15/04/2024	Technical Training Flask	Build and deploy dynamic web applications, fostering backend development skills essential for modern web development careers.
3	Sinnnovation pvt lmt	Skill Development, Certified Courses, Outcome Based Trainings, Placement And Related Services	MOU Sign, Skill Development , Training, Placements	18/04/2023 to 18/04/2024	Technical talk Network Security	Awareness of network threats and defense strategies, promoting secure communication practices across digital infrastructures.
4	SMART SELECT Solutions	Entrepreneurial Skill Development, Outcome Based Trainings, Placement And Related Services	MOU Sign, Skill Development , Training, Placements	11/04/2023 to 11/04/2024	Technical Talk on Python -	Strengthened programming foundations using Python, opening pathways to careers in software development, automation, and data science.
5	Synctra Solutions	Training, Placement, Skill Development, R&D Services And Other Academic Matters	MOU Sign, Skill Development , R&D , Training, Placements	12/04/2023 to 12/04/2024	Technical Talk on Machine Learning	ML concepts and tools, empowering participants to analyze data and develop intelligent systems for real-world problem-solving.

Figure 2.2.4.1: Functional MoUs (Annexed Separately).**B. Industry expert involvement in developing syllabus and partial delivery of the course work (5)**

The following are the value-added courses offered during the last 3 assessment years, with industry experts involvement in identifying the gaps and also in the delivery of the courses.

Value added courses imparting transferable and life skills offered during the year

Table 2.2.3.4: List of value added courses for academic year 2024-25

Academic Year: 2024-25 (CAY)

Value added courses	Date of introduction	Relevant POs & PSOs Mapping
Training on aptitude and reasoning	25/07/2024	PO10, PO12
Training on interpersonal skills	30/08/2024	PO3, PO8, PO9, PO10
Training on Leadership Qualities	24/10/2024	PO8, PO10, PO12
Training on Emotional intelligence	11/02/2025	PO8, PO10, PO12
Training on Communication skills	12/03/2025	PO3, PO4, PO12

Table 2.2.4.5: List of value added courses for academic year 2023-2024

Academic Year: 2023-2024(CAYm1)

Value added courses	Date of introduction	Relevant POs & PSOs Mapping
Training on aptitude and reasoning	10/08/2023	PO10, PO12
Training on interpersonal skills	20/09/2023	PO3, PO8, PO9, PO10
Training on Leadership Qualities	29/01/2024	PO8, PO10, PO12
Training on Emotional intelligence	21/02/2024	PO8, PO10, PO12
Training on Communication skills	27/03/2024	PO3, PO4, PO

Table 2.2.4.6: List of value added courses for academic year 2022-2023

Academic Year: 2022-2023 (CAYm2)

Value added courses	Date of introduction	Relevant POs & PSOs Mapping
Training on aptitude and reasoning	06/10/2022	PO10, PO12
Training on interpersonal skills	16/11/2022	PO3, PO8, PO9, PO10
Training on Leadership Qualities	06/02/2023	PO8, PO10, PO12
Training on Emotional intelligence	13/03/2023	PO8, PO10, PO12
Training on Communication skills	20/04/2023	PO3, PO4, PO12

C. Partial delivery of appropriate courses by industry experts & Impact analysis of industry institute interaction and actions taken

The department invites experts from industries to deliver lectures to students. During the lecture, students can raise questions and interact with the experts from industry.

A report is prepared about the guest lecturer and workshops, and the feedback from the students is collected for improvement in future guest lectures.

Table 2.2.6.7: Details of Courses Delivered by Industrial Experts during the A.Y.2024-2025

S. No	Topic	Course	Date/ Month/Year	Resource Person with Designation	Number of students attended	Relevant PO'S
1	Advanced Computer Networks	Guest Lecture	27-07-2024	Mr.M Kalyan Chakravarthy, Sr. Software engineer Adaps It Pvt.Lmt	45	PO1, PO2, PO3, PO4; PSO1, PSO2
2	Mango DB	Guest Lecture	10/2/2025	Mrs.P.Sirisha Reddy , Team Lead ,Infosys	70	PO1, PO2, PO3, PO5; PSO1, PSO2
3	IDEA and BLOWFISH Algorithms.	Guest Lecture	20-02-2025	Mr.M Kalyan Chakravarthy, Sr. Software engineer Adaps It Pvt.Lmt	45	PO1, PO2, PO3, PO12; PSO1

Table 2.2.6.8: Details of Courses Delivered by Industrial Experts during the A.Y.2023-2024

S. No	Topic	Course	Date/ Month/Year	Resource Person with Designation	Number of students attended	Relevant PO'S
1	Advanced Computation and Graphics using C++	Guest Lecture	22-08-2023	Mr.M Kalyan Chakravarthy, Sr. Software engineer Adaps It Pvt.Lmt	52	PO1, PO2, PO3, PO5; PSO1, PSO2
2	Advanced Computer Networks	Guest Lecture	7/8/2023	Mr.M Kalyan Chakravarthy, Sr. Software engineer Adaps It Pvt.Lmt	40	PO1, PO2, PO3, PO4; PSO1

3	IDEA and BLOWFISH Algorithms.	Guest Lecture	08/04//2024	Mr.M Kalyan Chakravarthy, Sr. Software engineer Adaps It Pvt.Lmt	40	PO1, PO2, PO3; PSO1, PSO2
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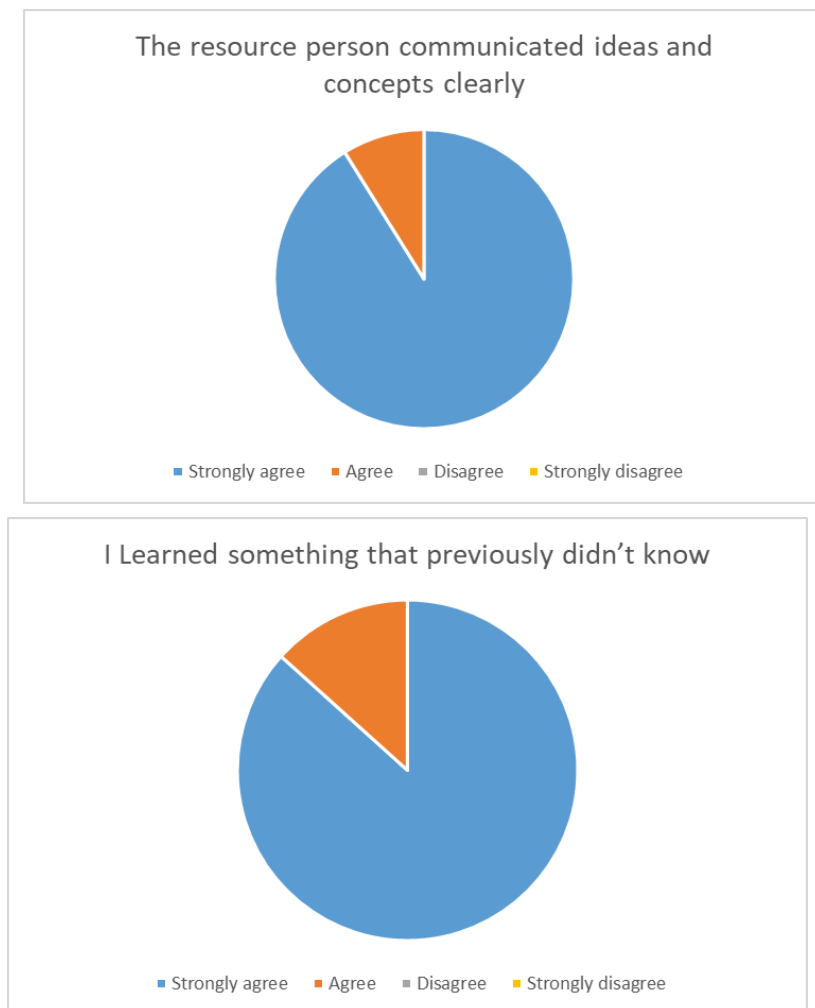
Table 2.2.6.9: Details of Courses Delivered by Industrial Experts during the A.Y. 2022-2023

S. No	Topic	Course	Date/ Month/Year	Resource Person with Designation	Number of students attended	Relevant PO'S
1	Advanced Computer Networks	Guest Lecture	23-08-2022	Mr.M Kalyan Chakravarthy, Sr. Software engineer Adaps It Pvt.Lmt	52	PO1,PO2,PO3,PO5,PSO1,PSO2
2	GIT and Jenkin Tools.	Workshop	15/03/2023 TO 16/03/2023	Mr.K.Ashok,Tech Lead,OSI Digital Pvt. Ltd	70	PO1,PO2,PO3,PO5,PO11,PO12,PSO1,PSO2
3	Mongo DB	Workshop	03/02/2023 TO 04/02/2023	Mrs.P.Sirisha Reddy , Team Lead ,Infosys	40	PO1, PO2, PO3, PO5, PO12,PSO1, PSO2

Figure 2.2.4.2 : Sample empty feedback form (Annexed Separately).

Feedback Analysis of Workshop on “Advanced Computer Networks”

Figure 2.2.4.3: Feedback collection- I for workshop (Annexed Separately).



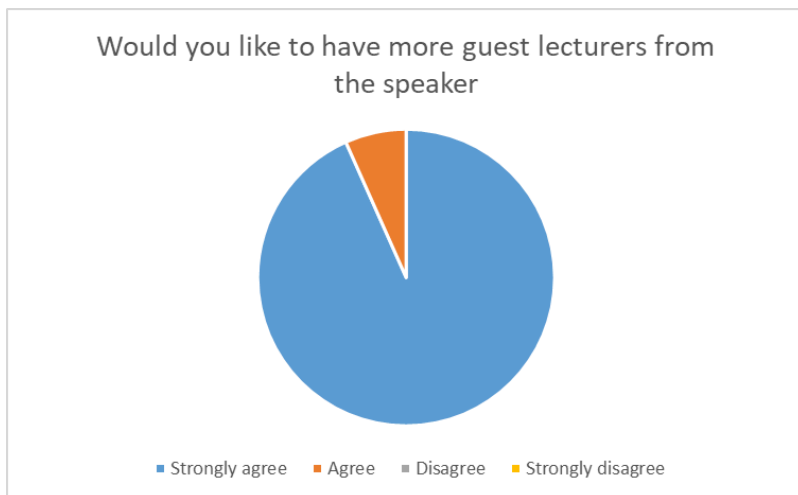
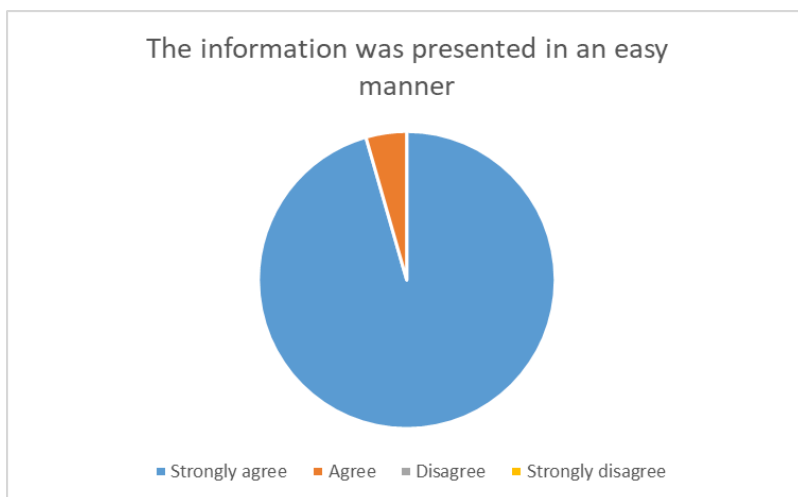
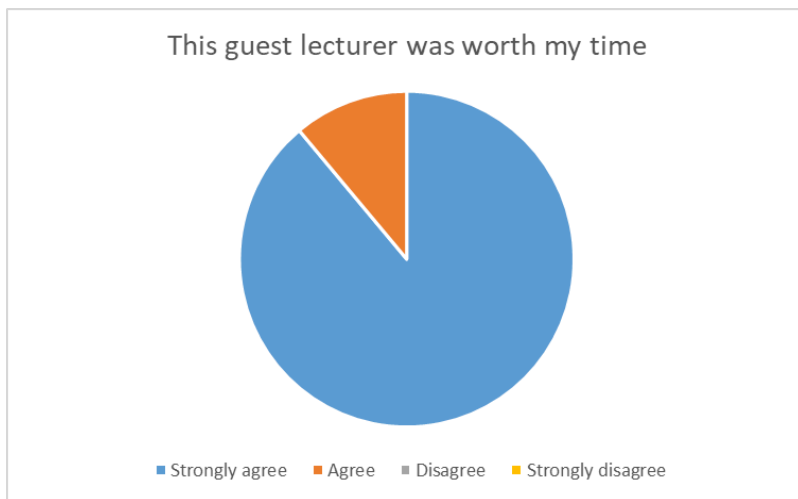


Figure 2.2.4.4: Feedback analysis for workshop

C. Impact Analysis: (5)

1. MOUs are signed between industries and institutes to establish an industry-institute link.
2. Students will be encouraged to take up ongoing industry projects.
3. Internships for the students are arranged.
4. Technical lecturers are organised with the help of industrial experts for gaining practical knowledge.
5. Arranging seminars, symposiums, workshops, and conferences in collaboration with industries

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

Institute Marks : 15.00

2.2.5 Initiative related to industry internship/summer training (15)**A. Industrial training/tours for students (3) &****B. Industrial /internship /summer training of more than two weeks and post training Assessment (4)**

Initiatives related to industrial internships and summer training for students are actually started in the month of January of every academic year. The correspondence starts with different companies or industries in Andhra Pradesh and Telangana states. After obtaining permission from different companies, students are informed about their internships at those companies. Some students, out of their own interest, get permission from industries for internships. After verifying the profiles of such industries, students are permitted to go for internships. The internship coordinator helps the students by interacting with the industrial experts, issuing recommendation letters to the students, and offering any other necessary support.

After the completion of the internship, the students give their feedback about the industry in which they underwent internship training. Based on the students feedback about the industries where the training is not satisfactory, students are not encouraged to apply for internships in those industries starting in the next academic year.

AcademicYear:2024-25 (CAY)

S.No	Hall Ticket No,	Student Name	Topic Name	Organization Name	Relevant PO
1	22HM1A0502	Angajala Veera lingshwara	Data Science	Skill dzire	PO1,PO2,PO3,PO5,PO12
2	22HM1A0504	Avula Veeranjineyulu	Artificial Intelligence	Skill dzire	PO1,PO2,PO3,PO5,PO12
3	22HM1A0505	Bonthala Govinda Rajulu	Data Science	Skill dzire	PO1,PO2,PO3,PO5,PO12
4	22HM1A0507	Chebrolu Jyothika Sai	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
5	22HM1A0508	Dammalapati Sravanthi	Cyber Security	Excelr	PO1,PO6,PO7,PO8,PO12
6	22HM1A0509	Danda Sarita	Machine Learning	Skill dzire	PO1,PO2,PO3,PO5,PO12
7	22HM1A0510	Devarakonda Manikanta	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
8	22HM1A0511	Dodlavaram Vishnu Vardhan	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
9	22HM1A0512	Edigattu Sreenivasulu	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
10	22HM1A0513	Gogula Ajay	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
11	22HM1A0515	Gudipati Pallavi	Artificial Intelligence	Skill dzire	PO1,PO2,PO3,PO5,PO12
12	22HM1A0516	Gummati Praveen	Ai-MI-Ds	Blackbug Engineers	PO1,PO2,PO3,PO5,PO12
13	22HM1A0517	Gunja Narendra	Ai-MI-Ds	Blackbug Engineers	PO1,PO2,PO3,PO5,PO12
14	22HM1A0518	Gunja Sirisha	Ai-MI-Ds	Blackbug Engineers	PO1,PO2,PO3,PO5,PO12
15	22HM1A0520	Jampani Vanajadevi	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
16	22HM1A0521	Juvvenaboyina Ramakrishna	Ai-MI-Ds	Blackbug Engineers	PO1,PO2,PO3,PO5,PO12
17	22HM1A0522	Kandula Dharani	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
18	22HM1A0523	Karrothu Chaitanya Kumar	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
19	22HM1A0524	Kesari Bhavani Prasad Reddy	Artificial Intelligence	Skill dzire	PO1,PO2,PO3,PO5,PO12
20	22HM1A0525	Kolli Sivalakshmi	Ai-MI-Ds	Blackbug Engineers	PO1,PO2,PO3,PO5,PO12
21	22HM1A0526	Lotla Uday Kumar	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
22	22HM1A0527	Majji Pavan Kumar	Ai-MI-Ds	Blackbug Engineers	PO1,PO2,PO3,PO5,PO12
23	22HM1A0529	Meeniga Sirisha	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
24	22HM1A0531	Nidikonda Srinivasarao	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
25	22HM1A0534	Pothireddy Susanna	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
26	22HM1A0535	Pujari Somanath	Full Stack Development	Blackbug Engineers	PO1,PO2,PO3,PO5,PO12
27	22HM1A0536	Rakonda Lakshmi Venkata Alivelu	Artificial Intelligence	Skill dzire	PO1,PO2,PO3,PO5,PO12
28	22HM1A0537	Rasipogula Swapna	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
29	22HM1A0538	Ravi Mani Deepthi	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12

30	22HM1A0539	Rebba Surya	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
31	22HM1A0540	Sadhu Deepthi	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
32	22HM1A0541	Sake Sravanthi	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
33	22HM1A0542	Sali Karthik	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12
34	22HM1A0544	Shaik Mohith	Full Stack Development	Data valley	PO1,PO2,PO3,PO5,PO12
35	22HM1A0545	Shaik Mubashira	Data Science Machine Learning	Data valley	PO1,PO2,PO3,PO5,PO12

Table: 2.5.1. Internships for the A.Y. 2022-2023

AcademicYear:2023-2024 (CAYm1)

S.NO	Hall Ticket No.	Student name	Topic Name	Organization Name	Relavent PO
1	21HM1A0501	ALUKAPENTA THIMMAGURUDU SWAMY	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
2	21HM1A0502	ARUMALLA SANDEEP KUMAR	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
3	21HM1A0504	BADISA BHAVYA SRI	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
4	21HM1A0506	BATTULA VENKATESH	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
5	21HM1A0507	BEESABATHINA SARANSAI	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
6	21HM1A0509	CHEDABAVI SHRAVANI	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
7	21HM1A0510	CHEDIPOTHULA KONDALU	MACHINE LEARNING INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
8	21HM1A0511	CHILAKURI RAMYA	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
9	21HM1A0512	CHINNA NAGAPPA GARI JYOTHI	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
10	21HM1A0513	DEGALA GOPINATH	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
11	21HM1A0514	DEVARAPALLI SANDEEP REDDY	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
12	21HM1A0515	DEVIREDDY PUJITHA	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
13	21HM1A0516	EPPALA VISHNU VARDHAN REDDY	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
14	21HM1A0518	GAJULA NAGA SIVA KIRAN	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
15	21HM1A0519	GOLLA SIVA KUMAR (M)	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
16	21HM1A0520	GOTTAPU SIREESHA	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
17	21HM1A0521	HARIJANA MADHURIMA	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
18	21HM1A0522	JAMPALA MALA KONDA RAYUDU	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
19	21HM1A0523	JASTY MANOJ	MACHINE LEARNING INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
20	21HM1A0524	KAMASANI BHASKAR RAO	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
21	21HM1A0525	KOTTAPALLI KALYAN	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
22	21HM1A0526	KUMMITHA GOPAL REDDY	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
23	21HM1A0527	KURAKULA DIWAKAR	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
24	21HM1A0528	LAKSHMI PRASANNA N	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
25	21HM1A0529	LUKALAPU ADARSH	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
26	21HM1A0530	MADIGA SANIYA	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12

27	21HM1A0531	MUKKELLA ANIL KUMAR	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
28	21HM1A0532	PALLEPOGU INDU PRIYA	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
29	21HM1A0533	PATHALA KRANTHI KUMAR	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
30	21HM1A0534	PATTIPATI DEEKSHITHA	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
31	21HM1A0535	PENUGONDA PAVAN	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
32	21HM1A0536	PULLAIAHGARI ASWILATHA	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
33	21HM1A0537	RAVULAPALLI SHANTHI TRIVENI	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
34	21HM1A0538	SUGALI POOJITHA BAI	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
35	21HM1A0539	SUNKARA GOPI AJAY KUMAR	DATA ANALYSIS INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
36	21HM1A0540	VARIKUNTLA NARENDRA	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
37	21HM1A0541	YERRABHOOMI SAMRUTHA	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12
38	21HM1A0542	PODARALLA SAI KUMAR REDDY	PYTHON FULLSTACK DEVELOPER INTERN	CODEGNAN	PO1,PO2,PO3,PO5,PO12

Table: 2.5.2. Internships for the A.Y. 2023-2024

AcademicYear:2022-2023 (CAYm2)

S.NO	Hall Ticket No.	Student Name	Topic Name	Organization Name	Relavent PO
1	20HM1A0501	ADDANKI AJAY	AI-ML Virtual Internship	EDU SKILLS	PO1,PO2,PO3,PO5,PO12
2	20HM1A0502	BEJJIPALLI JEEVAMANI	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
3	20HM1A0503	BOKKA VENKATARAO	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
4	20HM1A0504	BOYA VISHNUVARDHAN	AWS CLOUD Virtual Internship	EDU SKILLS	PO1,PO3,PO5,PO11,PO12
5	20HM1A0505	CHIRUGURI AKHIL	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
6	20HM1A0506	CHITIMINI ASHOK CHAKRAVARTHI REDDY	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
7	20HM1A0507	DARNASI RAKSHITHA	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
8	20HM1A0508	DUGGIMI SAIKUMAR	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
9	20HM1A0509	EDIGA VAMSI GOUD	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
10	20HM1A0510	GALLA MOHAN KUMAR	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
11	20HM1A0512	GOGULA UMA MAHESWARI	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
12	20HM1A0513	GORANTLA SAI PUNEETH	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
13	20HM1A0515	KAMBAM ASWINI	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
14	20HM1A0517	KANDUKURI NEWTON	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
15	20HM1A0518	KANNEDARI VINAY KUMAR	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
16	20HM1A0519	KAPU VISHNU VARDHAN REDDY	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
17	20HM1A0520	KAVALI NARENDRA	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
18	20HM1A0522	KUDUMALA SUMITHRA	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
19	20HM1A0523	MADDIRALA HIMA BINDHU	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12

20	20HM1A0524	MALYAM AKHILAMMA	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
21	20HM1A0525	MANDA AJAY	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
22	20HM1A0526	MANNUVA MALLIKHARJUNA	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
23	20HM1A0527	MEENIGA SRAVANI	AWS CLOUD Virtual Internship	EDU SKILLS	PO1,PO3,PO5,PO11,PO12
24	20HM1A0528	NALAGANGU VENKATA PRAVEEN	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
25	20HM1A0529	NALLAGANGULA SARAN VENKATA ATCHIREDDY	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
26	20HM1A0530	NANSAVATHU THIRUMALA BAI	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
27	20HM1A0531	PALLAPU SAILAJA	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
28	20HM1A0532	PATHIPATI HEMALATHA	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
29	20HM1A0533	PATHIPATI MAHESH	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
30	20HM1A0534	PULI PUSHPALATHA	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
31	20HM1A0535	RACHAGORLA JANAKI RAM	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
32	20HM1A0536	RAPTHADU SREENATH	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
33	20HM1A0537	SAKE VINOD	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
34	20HM1A0538	SANIVARPU VISWAS MARREDDY	AWS CLOUD Virtual Internship	EDU SKILLS	PO1,PO3,PO5,PO11,PO12
35	20HM1A0539	SHAIK ROSHINI	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
36	20HM1A0540	SHYAMALA KAVYA	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
37	20HM1A0542	TALARI MAHESH	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
38	20HM1A0543	TAMMU CHANDU	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
39	20HM1A0545	THOTA VENKATA NAVEEN	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
40	20HM1A0546	VADDE BHARGAVA	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
41	20HM1A0547	VALLEPU MAHALAKSHMI	AI-ML Virtual Internship	EDU SKILLS	PO1,PO2,PO3,PO5,PO12
42	20HM1A0548	VELPULA CHANDRIKA	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
43	20HM1A0549	VENNEPUSA LOKESHWAR REDDY	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
44	20HM1A0550	YEKKANTI SAI TEJA	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
45	20HM1A0551	YARRA NAGAPA GARI GIRISH	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
46	20HM1A0552	YARRAMREDDY AARTHI REDDY	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12
47	20HM1A0553	YATAM MUTHYALU	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
48	20HM1A0554	YATHAM MUTHYALU	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
49	20HM1A0555	YERIKALA ASHOK	DATA SCIENCE INTERN	CODEGNAN	PO1,PO2,PO4,PO5,PO12
50	21HM5A0501	KOSURI LAKSHMANA RAO	SALESFORCE DEVELOPER VIRTUAL INTERNSHIP	SMART INTRENZ	PO1,PO3,PO5,PO6,PO12

Table: 2.5.3. Internships for the A.Y. 2022-23

C. Student Feedback on Initiatives (4)

Fig: 2.2.5.1. Sample empty Feedback from for Industrial Internship (Annexed Separately)

Fig: 2.2.5.2. Sample Filled Feedback from for Industrial Internship (Annexed Separately)

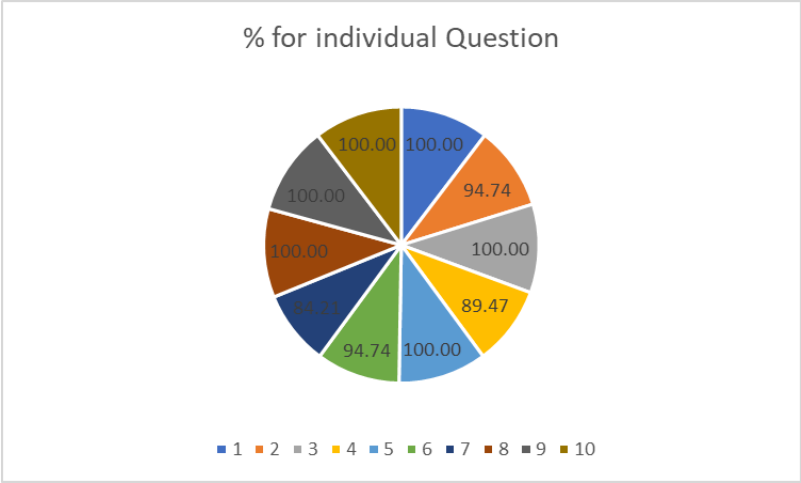
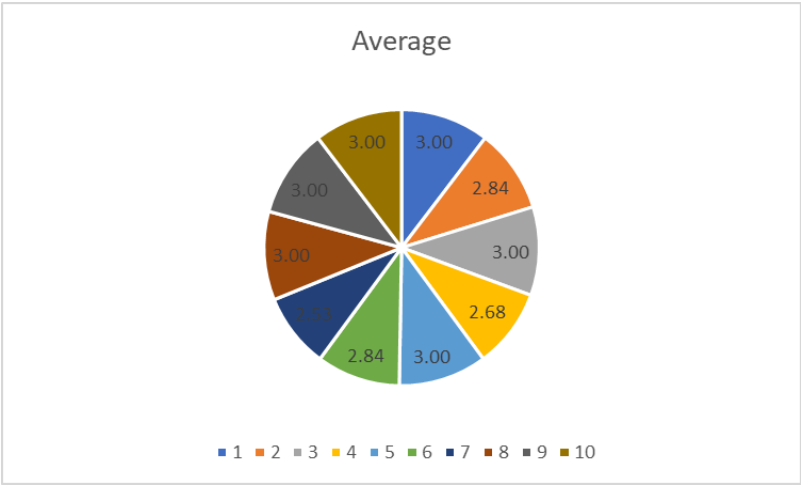


Figure 2.2.5.3 : Feedback Analysis for Industrial Internship

Sample Certificate

Figure: 2.2.5.4: Sample Student certificates for Industrial Internship (Annexed Separately)

D. Impact Analysis (4)

The internship has had an impact on the students in the following aspects:

1. Students gained innovative and technical ideas from industry professionals (PO1,PO2, PO3, PO5).
2. The skills and abilities of students were improved (PO1,PO2,PO3,PO4, PO5, PO10).
3. The confidence level of the students was boosted (PO9, PO10, PO12).
4. The team spirit of the students was improved (PO9, PO10).
5. Helped the students get an idea about their final project, apprenticeship after graduation, and job in the core sector (PO2, PO3, PO4, PO5, PO10, PO12).

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	To apply domain knowledge and expertise for enhancing research capability to transform innovative ideas into reality.
PSO2	To prepare students to undertake careers involving problem solving using computer science and technologies

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 14	Course Year :	2021-2022
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Course Name	Statements
C2 14.1	Describe the nature of software, software engineering principles, and various software process models including prescriptive and specialized models.
C2 14.2	Explain agile software development processes, including Extreme Programming, and apply techniques for requirements elicitation, use case development, and validation.
C2 14.3	Analyze and model software requirements using scenario-based techniques, UML diagrams, data modeling, and behavioral models for traditional and web applications.
C2 14.4	Design software architecture and components by applying design concepts, architectural styles, and component-based development strategies for conventional and web applications.
C2 14.5	Illustrate principles of software quality assurance, testing strategies, and debugging techniques applicable to conventional, object-oriented, and web applications.

Course Name :	C2 24	Course Year :	2021-2022
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Course Name	Statements
C2 24.1	Apply object-oriented programming concepts and Java constructs to solve real-time problems.
C2 24.2	Analyze the core features of Java such as operators, classes, objects, inheritance, packages, enumerations, and keywords.
C2 24.3	Implement exception handling and perform input/output operations using Java.
C2 24.4	Design Java applications and applets for interactive programming solutions.
C2 24.5	Evaluate event handling mechanisms and GUI development using Abstract Window Toolkit (AWT).

Course Name :	C3 15	Course Year :	2022-2023
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Course Name	Statements
C3 15.1	Apply the process to be followed in the software development life-cycle models
C3 15.2	Apply the concepts of project management & planning
C3 15.3	Evaluate the project plans through managing people, communications and change
C3 15.4	Analyze activities necessary to successfully complete and close the Software projects
C3 15.5	Evaluate communication, modeling, and construction & deployment practices in software development

Course Name :	C3 23	Course Year :	2022-2023
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Course Name	Statements
C3 23.1	Explain security threats, countermeasures, and the foundation of cryptography mathematics.
C3 23.2	Classify principles of symmetric key algorithms and operations of symmetric and asymmetric cryptography.
C3 23.3	Analyzing the structure, functionality, and differences of these algorithms.
C3 23.4	Analyze the effectiveness of various hash algorithms, digital signatures, and key management techniques in application security.
C3 23.5	Understand application, transport, and network layer security protocols like PGP, S/MIME, SSL, TLS, and IPsec.

Course Name :	C4 11	Course Year :	2023-24
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Course Name	Statements
C4 11.1	Apply virtualization techniques and tools in cloud computing environments.
C4 11.2	Analyze the architecture and services of Google Cloud and Amazon Web Services.
C4 11.3	Evaluate scheduling algorithms and combinatorial auctions for cloud resource allocation.
C4 11.4	Assess storage control systems and security risks in cloud computing.

C4 11.5	Analyze system requirements and cloud service models to architect secure and efficient cloud-based applications.
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Course Name :	C4 21	Course Year :	2023-2024
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Course Name	Statements
C4 21.1	Apply machine learning algorithms to build models for email spam detection and phishing website detection.
C4 21.2	Analyze real-time data from sensors to develop IoT-based student/employee attendance systems.
C4 21.3	Design and implement secure authentication systems using graphical passwords and machine learning techniques.
C4 21.4	Evaluate performance of models for credit card fraud detection and cyberattack detection in network security.
C4 21.5	Develop AI-based applications such as chatbots and job search agents using NLP tools and web technologies.

3.1.2 CO-PO matrices 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 : C214

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	3 ▾	2 ▾	2 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	- ▾	3 ▾
C214.2	3 ▾	3 ▾	2 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	3 ▾	- ▾	3 ▾
C214.3	3 ▾	3 ▾	2 ▾	2 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	- ▾	2 ▾
C214.4	3 ▾	3 ▾	2 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	- ▾	2 ▾
C214.5	3 ▾	2 ▾	3 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	3 ▾	- ▾	2 ▾
Average	3.00	2.60	2.40	2.40	2.60	0.00	0.00	0.00	0.00	2.40	0.00	2.40

2 . course name : C224

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C224.1	3 ▾	3 ▾	3 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	- ▾	3 ▾
C224.2	3 ▾	3 ▾	2 ▾	2 ▾	1 ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	- ▾	2 ▾
C224.3	3 ▾	2 ▾	3 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	2 ▾	- ▾	3 ▾
C224.4	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	3 ▾	- ▾	3 ▾
C224.5	3 ▾	2 ▾	2 ▾	2 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	3 ▾	- ▾	2 ▾
Average	3.00	2.60	2.60	2.40	2.20	0.00	0.00	0.00	0.00	2.40	0.00	2.60

3 . course name : C315

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	3 ▾	2 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	3 ▾	2 ▾	3 ▾	3 ▾	3 ▾
C315.2	3 ▾	2 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	2 ▾	3 ▾	2 ▾	1 ▾	3 ▾
C315.3	2 ▾	2 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	3 ▾	3 ▾	3 ▾	2 ▾	2 ▾
C315.4	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	3 ▾	3 ▾	2 ▾	2 ▾	2 ▾
C315.5	3 ▾	3 ▾	2 ▾	3 ▾	- ▾	- ▾	- ▾	2 ▾	2 ▾	2 ▾	2 ▾	2 ▾
Average	2.80	2.40	2.60	2.60	0.00	0.00	0.00	2.60	2.60	2.40	2.00	2.40

4 . course name : C323

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C323.1	3 ▾	3 ▾	3 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾
C323.2	3 ▾	3 ▾	2 ▾	2 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C323.3	3 ▾	3 ▾	2 ▾	3 ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C323.4	3 ▾	3 ▾	3 ▾	3 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾
C323.5	3 ▾	2 ▾	2 ▾	2 ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
Average	3.00	2.80	2.40	2.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	2.60

5 . course name : C411

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	3 ▾	2 ▾	2 ▾	- ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C411.2	3 ▾	3 ▾	2 ▾	- ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾
C411.3	3 ▾	3 ▾	2 ▾	- ▾	3 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	3 ▾
C411.4	3 ▾	3 ▾	3 ▾	- ▾	2 ▾	- ▾	- ▾	- ▾	- ▾	- ▾	- ▾	2 ▾

C411.5	3	3	3	-	3	-	-	-	-	-	-	3
Average	3.00	2.80	2.40	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	2.60

6 . course name : C421

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C421.1	3	2	3	3	2	-	-	-	-	2	-	-
C421.2	3	3	3	3	3	-	-	-	-	2	-	-
C421.3	3	3	3	3	3	-	-	-	-	2	-	-
C421.4	3	3	3	3	2	-	-	-	-	2	-	-
C421.5	3	3	3	2	3	-	-	-	-	3	-	-
Average	3.00	2.80	3.00	2.80	2.60	0.00	0.00	0.00	0.00	2.20	0.00	0.00

1 . Course Name : C214

Course	PSO1	PSO2
C214.1	2 ▼	2 ▼
C214.2	2 ▼	3 ▼
C214.3	3 ▼	3 ▼
C214.4	3 ▼	3 ▼
C214.5	2 ▼	3 ▼
Average	2.40	2.80

2 . Course Name : C224

Course	PSO1	PSO2
C224.1	3 ▼	2 ▼
C224.2	3 ▼	3 ▼
C224.3	3 ▼	3 ▼
C224.4	3 ▼	3 ▼
C224.5	3 ▼	2 ▼
Average	3.00	2.60

3 . Course Name : C315

Course	PSO1	PSO2
C315.1	2 ▼	3 ▼
C315.2	2 ▼	3 ▼
C315.3	3 ▼	3 ▼
C315.4	3 ▼	2 ▼
C315.5	3 ▼	3 ▼
Average	2.60	2.80

4 . Course Name : C323

Course	PSO1	PSO2
C323.1	3 ▼	3 ▼
C323.2	3 ▼	3 ▼
C323.3	3 ▼	2 ▼
C323.4	3 ▼	3 ▼
C323.5	3 ▼	2 ▼
Average	3.00	2.60

5 . Course Name : C411

Course	PSO1	PSO2
C411.1	3 ▼	3 ▼
C411.2	3 ▼	3 ▼
C411.3	3 ▼	3 ▼
C411.4	3 ▼	3 ▼
C411.5	3 ▼	3 ▼
Average	3.00	3.00

6 . Course Name : C421

Course	PSO1	PSO2
C421.1	3 ▾	3 ▾
C421.2	3 ▾	3 ▾
C421.3	3 ▾	3 ▾
C421.4	3 ▾	3 ▾
C421.5	3 ▾	3 ▾
Average	3.00	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
C111	2.60	2.40	PO3	PO4	PO5	PO6	PO7	PO8	PO9	2.80	PO11	2.00
C112	3.00	2.60	PO3	2.80	PO5	PO6	PO7	PO8	PO9	PO10	PO11	2.20
C113	3.00	2.20	PO3	2.60	2.60	PO6	PO7	PO8	PO9	2.40	PO11	2.60
C114	3.00	2.80	2.60	PO4	2.60	PO6	PO7	PO8	PO9	PO10	PO11	2.00
C115	3.00	3.00	2.20	2.60	2.80	PO6	PO7	PO8	PO9	PO10	PO11	2.00
C116	3.00	3.00	2.60	2.60	2.80	PO6	PO7	PO8	PO9	PO10	PO11	2.20
C117	3.00	3.00	2.60	2.60	2.80	PO6	PO7	PO8	PO9	PO10	PO11	2.20
C118	3.00	2.60	2.60	2.80	2.60	PO6	PO7	PO8	PO9	2.60	PO11	2.00
C121	3.00	3.00	2.80	2.60	2.40	PO6	PO7	PO8	PO9	PO10	PO11	2.40
C122	3.00	2.60	2.40	2.40	2.40	PO6	PO7	PO8	PO9	PO10	PO11	2.40
C123	3.00	2.80	2.80	2.60	2.40	PO6	PO7	PO8	PO9	PO10	PO11	2.40
C124	3.00	2.60	2.80	2.60	2.40	PO6	PO7	PO8	PO9	PO10	PO11	2.20
C125	3.00	2.80	2.80	2.40	2.40	PO6	PO7	PO8	PO9	PO10	PO11	2.40
C126	3.00	2.20	2.80	3.00	2.80	PO6	PO7	PO8	PO9	2.20	PO11	2.40
C127	3.00	2.60	2.80	2.80	3.00	PO6	PO7	PO8	PO9	2.40	PO11	2.60
C128	3.00	2.60	3.00	2.60	2.60	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211	3.00	2.60	2.40	2.60	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212	3.00	2.60	2.60	2.60	2.60	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213	2.60	2.20	2.60	2.60	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214	3.00	2.60	2.40	2.40	2.60	PO6	PO7	PO8	PO9	2.40	PO11	2.40
C215	2.40	2.60	2.60	2.60	2.40	PO6	PO7	PO8	PO9	2.60	PO11	2.40
C216	3.00	2.80	3.00	2.60	2.60	PO6	PO7	PO8	PO9	PO10	PO11	2.00
C217	3.00	2.60	2.60	2.60	3.00	PO6	PO7	PO8	PO9	PO10	PO11	2.60
C218	3.00	2.80	2.60	2.80	3.00	PO6	PO7	PO8	PO9	PO10	PO11	2.60
C219	3.00	2.80	2.80	2.60	2.60	PO6	PO7	PO8	PO9	2.40	PO11	2.60
C221	3.00	2.80	2.60	2.40	2.40	PO6	PO7	PO8	PO9	2.40	PO11	2.40
C222	3.00	2.60	2.80	2.40	2.20	PO6	PO7	PO8	PO9	PO10	PO11	2.40
C223	3.00	2.60	PO3	PO4	2.40	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C224	3.00	2.60	2.60	2.40	2.20	PO6	PO7	PO8	PO9	2.40	PO11	2.60
C225	2.80	2.40	2.40	PO4	PO5	2.40	PO7	PO8	PO9	2.40	PO11	PO12
C226	3.00	2.80	2.40	2.40	3.00	PO6	PO7	PO8	PO9	2.40	PO11	2.40
C227	3.00	2.80	2.20	2.40	3.00	PO6	PO7	PO8	PO9	2.20	PO11	2.40

C228	3.00	2.80	2.40	2.60	3.00	PO6	PO7	PO8	PO9	2.40	PO11	2.60
C229	3.00	2.40	2.60	2.60	3.00	PO6	PO7	PO8	PO9	2.40	PO11	2.40
C311	2.80	2.80	2.60	PO4	PO5	PO6	PO7	PO8	PO9	2.40	PO11	PO12
C312	2.80	2.20	2.80	2.60	2.20	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313	3.00	2.60	3.00	2.40	2.40	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314	2.80	2.60	2.40	2.40	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315	2.80	2.40	2.60	2.60	PO5	PO6	PO7	2.60	2.60	2.40	2.00	2.40
C316	2.80	2.00	3.00	3.00	2.80	PO6	PO7	PO8	PO9	2.40	PO11	2.40
C317	3.00	2.60	2.80	2.60	2.40	PO6	PO7	PO8	PO9	PO10	PO11	2.40
C318	2.40	PO2	2.40	2.40	2.80	PO6	PO7	PO8	PO9	2.20	PO11	2.40
C319	2.20	2.40	2.40	2.40	2.40	PO6	PO7	PO8	2.40	PO10	PO11	2.60
C321	2.80	2.60	2.60	2.40	2.60	PO6	PO7	PO8	PO9	PO10	PO11	2.40
C322	3.00	2.80	2.80	2.20	2.40	PO6	PO7	PO8	PO9	PO10	PO11	2.60
C323	3.00	2.80	2.40	2.40	2.40	PO6	PO7	PO8	PO9	PO10	PO11	2.60
C324	2.80	2.40	2.80	2.00	2.40	PO6	PO7	PO8	PO9	PO10	PO11	2.40
C325	3.00	2.00	2.60	PO4	2.40	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C226	3.00	2.40	2.60	2.80	3.00	PO6	PO7	PO8	PO9	PO10	PO11	2.60
C327	3.00	2.40	2.60	2.80	3.00	PO6	PO7	PO8	PO9	PO10	PO11	2.60
C328	3.00	2.40	2.60	2.40	2.80	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C329	3.00	2.20	2.80	2.40	3.00	PO6	PO7	PO8	2.20	2.20	PO11	2.20
C411	3.00	2.80	2.40	PO4	2.80	PO6	PO7	PO8	PO9	PO10	PO11	2.60
C412	3.00	2.80	2.40	2.60	2.80	PO6	PO7	PO8	2.20	2.20	PO11	2.40
C413	3.00	3.00	2.80	2.20	3.00	2.00	PO7	PO8	2.20	2.20	2.00	PO12
C414	3.00	2.80	2.60	2.20	2.60	PO6	PO7	PO8	2.40	2.40	PO11	PO12
C415	3.00	2.80	2.80	2.20	2.60	PO6	PO7	PO8	2.20	2.40	PO11	PO12
C416	3.00	2.60	2.20	3.00	2.40	2.80	3.00	2.40	PO9	2.20	2.40	PO12
C417	3.00	2.40	2.40	3.00	2.60	PO6	2.40	2.60	PO9	PO10	PO11	PO12
C418	2.20	2.40	2.40	2.40	2.40	PO6	PO7	PO8	2.40	PO10	PO11	2.60
C421	3.00	2.80	3.00	2.80	2.60	PO6	PO7	PO8	PO9	2.20	PO11	PO12

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

Course	PSO1	PSO2
C111	3.00	2.80
C112	3.00	2.60
C113	3.00	2.80
C114	2.80	2.80
C115	2.60	3.00
C116	3.00	2.80
C117	3.00	2.80
C118	3.00	2.80
C121	2.80	2.80
C122	2.80	2.80
C123	2.80	2.80
C124	2.80	2.80
C125	3.00	2.60

C126	3.00	2.80
C127	3.00	2.80
C128	3.00	3.00
C211	2.60	3.00
C212	2.80	3.00
C213	2.20	2.60
C214	2.40	2.80
C215	2.80	2.80
C216	3.00	2.80
C217	2.80	3.00
C218	3.00	3.00
C219	3.00	2.80
C221	3.00	3.00
C222	3.00	3.00
C223	2.80	2.80
C224	3.00	2.60
C225	2.60	2.60
C226	3.00	2.40
C227	3.00	2.60
C228	3.00	2.80
C229	3.00	2.60
C311	2.60	2.80
C312	2.80	2.80
C313	3.00	2.60
C314	2.80	2.60
C315	2.60	2.80
C316	2.60	3.00
C317	2.60	2.80
C318	2.40	2.80
C319	2.60	2.40
C321	3.00	3.00
C322	3.00	3.00
C323	3.00	2.60
C324	3.00	2.60
C325	2.60	2.40
C326	3.00	2.80
C327	3.00	2.80
C328	3.00	2.60
C329	3.00	2.80
C411	3.00	3.00
C412	3.00	2.20
C413	3.00	2.60
C414	2.80	2.60
C415	2.80	2.80

C416	3.00	2.80
C417	3.00	2.60
C418	2.60	2.40
C421	3.00	3.00

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

3.2.1. Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)**A. List of assessment processes (2) &****B. The quality /relevance of assessment processes & tools used (8)**

Course Outcomes (COs) are evaluated based on two approaches, namely direct and indirect assessment methods. The direct assessment methods are based on the midterm examinations, assignments, online quizzes, and semester-end examinations. Whereas the indirect assessment methods are based on the course- end survey provided by the students. The weightage in CO attainment of direct and indirect assessments is illustrated in the table 3.2.1.1 and the flow with rubrics are also given in the below figure 3.2.1.1

Figure 3.2.1.1: Flowchart for computing Process for COs attainment (Rubrics) (Annexed Separately)

Assessment Method	Assessment Tool		Weightage in CO attainment
Direct Assessment	Internal Assessment	30%	80%
	Semester End Examinations	70%	
Indirect Assessment	Course Exit Survey		20%

Table 3.2.1.1: Assessment Weightage

Direct Assessment:

Direct assessment methods are based on the student's knowledge and performance in the various assessments and examinations. These assessment methods provide evidence that a student has command over a specific course, content, or skill, or that the students' work demonstrates a specific quality such as analysis, synthesis, or creativity.

The various direct assessment tools used to assess the impact of delivery of course content is listed in Table

S. No.	Courses	Components	Frequency	Evidence
1.	Core / Elective	Mid Internal Examination	Twice in a semester	Answer script
		Quiz	Twice in a semester	Online
		Assignment	Twice in a semester	Answer script
		Semester End Examination	Once in a semester	Results sheet
2.	Laboratory	Conduction of experiment	Once in a week	Observation book
		Day to day Evaluation	Once in a week	
		Observation	Once in a week	
		Result	Once in a week	
		Viva	Once in a week	
		Record	Once in a week	Record
		Internal Laboratory Assessment	Once in a semester	Answer script
3.	Project Work	Internal Presentation	Twice in a semester	Presentation
		Semester End Examination	Once in a semester	Thesis report
4.	Seminar	Internal Assessment	Once in a semester	Report

Table 3.2.1.2: Assessment tools used for CO direct assessment

Indirect Assessment:

Course End Survey: In this survey, course outcomes are taken directly as questionnaires, and collected students understanding level in 3-point of scale. The tools and processes used in indirect assessment are shown in the table 3.2.1.3.

Table: Tools used in Indirect assessment

S. No.	Tools	Process	Frequency
1	Course End Survey	Taken for every course at the end of the semester. Gives an overall view that helps assess the extent of coverage and compliance of COs Helps the faculty to improve upon the various teaching methodologies	Once in a Semester

Table 3.2.1.3: Assessment tools used for CO indirect assessment

Direct Tools: (Measurable in terms of marks and w.r.t. CO) Assessment done by faculty at the department level.

Indirect Tools: (Measurable (surveys) in terms of marks and w.r.t. CO) Assessment done at the department level.

Course Assessment Process:

Each course is evaluated by the assessment of course outcomes by direct and indirect assessment tools, which are predefined. Direct assessment is carried out by internal and external assessment, and indirect assessment is carried out by the course end survey (CO learning assessment). A schedule of direct assessments is prepared by the course coordinator while meeting the requirements of JNTU, Kakinada regulations.

Assessment of theory courses:

Direct Assessment: Direct assessment of theory courses is carried out through internal and external assessment of each defined outcome of a course. Internal assessment by midterm examinations, quiz examinations, assignments, and external assessment by semester-end examinations

Internal Assessment:

Day-to-day assessments: It means enhancing the learning process of the students on a regular basis, which is done by conducting at least one class test and any other direct assessment tools (assignments, quizzes, midterm examinations, etc.) as desired by the course coordinator after attending the teaching- learning process of a particular course outcome.

Mid-examinations: Descriptive examinations are conducted as per the JNTUK, Kakinada schedule by the course coordinator for one and a half hours without choice. Two such examinations are conducted for a course, covering all the course outcomes.

Quiz examination: An objective exam for twenty minutes with twenty questions is conducted twice for a course with the question bank received from JNTUK, Kakinada on the day of the exam as scheduled by JNTUK, Kakinada.

Assignments: Open-book assignments are given to the students as per the JNTUK, Kakinada guidelines. The course faculty has given such assignments to the students as part of the evaluation of the course. For a course, at least two such assignments covering all of the course outcomes are considered.

External Assessment:

Semester end comprehensive examination is conducted by JNTUK, Kakinada for three hours.

Indirect Assessment:

Indirect assessment of theory courses is carried out by conducting a survey on course outcomes with the students at the end of the semester.

The questionnaires for the survey are the course outcomes of a particular course. These questions will be scrutinized by the HOD and Dean of Academics. At the end of the semester, the instructor will ask students to rate the course end survey questions. The attainment of the course end survey will be calculated, and 20% of that will be considered for the total course attainment calculation. A sample copy of the course-end survey is shown in the table.

Sample of Course End Survey**Figure 3.2.1.2 Sample feedback form for CO indirect assessment (Annexed Separately)****Assessment of Practical Courses:**

Assessment of practical courses is carried out based on day-to-day performance, internal and external examinations, and CO learning assessment.

Day-to-Day Evaluation: Practical courses focus on applying the theories learned in the class. The day-to-day performance of the student is assessed by the evaluation of experimentation results, reports presented through lab records, and vivo voce conducted after the completion of experimentation.

Internal Examination: Almost at the end of the semester, after completion of all the experiments, an internal examination for three hours will be conducted by the course coordinator to assess the skills acquired by the student through theory classes and the practical sessions held.

End Examination: Three hours of examination conducted in the institution as per the schedule of JNTUK in the presence of an external examiner. The performance of the student in conducting the given experiment is evaluated by the external examiner, along with a vivo voce conducted at the end of the experimentation to understand the correlation between the experimentation and the level of knowledge acquired by the student.

CO learning assessment (indirect): is carried out by conducting a survey on course outcomes with the students at the end of the semester.

Project: Project work encourages students to improve their innovative and intellectual capabilities. Hence, every effort is made to involve them in real-time work by conducting frequent internal reviews by the project committee. Assessment is done through direct and indirect assessments.

Direct Assessment for the Project: It includes an internal assessment, which is carried out through reviews, and an external assessment, which is carried out via viva voce.

Internal Assessment: Internal assessment is done by conducting four internal reviews, namely an abstract review, a first review, and a second review.

An Example of CO Attainment is shown here for B. Tech IV-I Semester for A.Y:2022-23

Course Attainment

Program Name:	B. Tech in Computer Science and Engineering	AY	2023-2024
Course Name:	Ethical Hacking	Class / Sem	IV/I
Faculty Name:	Merugu Anand Kumar	Regulation	R20

Question Number	Mid 1.Q 1	Mid 1.Q 2	Mid 1.Q 3	Mid 2.Q 1	Mid 2.Q 2	Mid 2. Q 3	Q1	Q2	A1	A2
Max Marks	5	5	5	5	5	5	10	10	5	5
Satisfactory mark as set target	3	3	3	3	3	3	6	6	3	3
No. of students scored above the set target	44	44	43	44	45	43	5	6	48	48
No. of students attempted	44	44	44	45	45	46	45	45	48	48
% Students scored above the set target	100	100	98	98	100	93	11	13	100	100

Internal Attainment

CO Attainment Level	Mid 1.Q 1	Mid 1.Q 2	Mid 1.Q 3	Mid 2.Q 1	Mid 2.Q 2	Mid 2. Q3	Q1	Q2	A1	A2	Overall
CO 1	2						2	2	2	2	2
CO 2		2					2	2	2	2	2
CO 3			2	2			2	2	2	2	2
CO 4					2		2	2	2	2	2
CO 5						2	2	2	2	2	2

Program Name:	B. Tech in Computer Science and Engineering	AY	2023-2024
Course Name:	Ethical Hacking	Class / Sem	IV/I
Faculty Name:	Merugu Anand Kumar	Regulation	R20

Overall Course Attainment

CO Attainment Level	Internal Examination (I)	University Examination (U)	Direct Attainment (D) (0.3I+0.7U)	CO Feedback (F)	Overall 0.8D+0.2F
CO 1	2	3	2.70	2.50	2.66
CO 2	2	3	2.70	2.48	2.66
CO 3	2	3	2.70	2.46	2.65
CO 4	2	3	2.70	2.44	2.65
CO 5	2	3	2.70	2.50	2.66
Overall Course Attainment					2.66
Set Target for the course					2.01
Course Attainment Status(Yes/No)					YES

Observations:

1	Target level is achieved and I will try to increase 5% of this target level for the next academic year.
2	More number of examples with real time hands on experience will be given for better level obtained in CO3 and CO4

Plan of Action:

1	Technical talks will conduct to increase engineering knowledge further.
2	Seminars will conduct to increase engineering knowledge
3	Subsequent doubt clarify sessions will be conducted beyond the regular planned classes.

Figure 3.2.1.5 Sample CO attainment for a course Ethical Hacking

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

Institute Marks : 40.00

3.2.2. Record the attainment of Course Outcomes of all courses with respect to set attainment levels (40):**A. Verify the attainment levels as per the benchmark set for all courses (40)****CO Overall Attainment:****II Year I Semester (2020 -24 Batch) A.Y. 2021-2022**

Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	Overall Course attainment	Target Level	Status attained
C211	M-II	2	2	2	2	2	2	2.01	No
C212	OOPS through C++	2.4	2.4	2.7	2.7	2.7	2.58	2.01	Yes
C213	OS	1.7	1.7	2	2	2	1.88	2.01	No
C214	SE	2.4	2.4	2.7	2.7	2.7	2.58	2.01	Yes
C215	MFCS	2	2	2	2	2	2	2.01	No
C216	OOPS Through C++ Lab	2.7	2.7	2.7	2.7	2.7	2.7	2.01	Yes
C217	OS Lab	3	3	3	3	3	3	2.01	Yes
C218	SE Lab	2.7	2.7	2.7	2.7	2.7	2.7	2.01	Yes
C219	Applications Of Python-Numpy	3	3	3	3	3	3	2.01	Yes

Table 3.2.2.1: CO overall attainments for R-20 (2020 – 2024) batch**II Year II Semester (2020 -24 Batch) A.Y. 2021-2022**

Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	Overall Course attainment	Target Level	Status attained
C221	P & S	2	2	2	2	2	2	2.01	No
C222	DBMS	2	2	2	2	2	2	2.01	No
C223	FLAT	2.7	2.7	2.7	2.7	2.7	2.7	2.01	Yes
C224	Java Programming	1.7	2	2	2	2	1.94	2.01	No
C225	MEFA	2.4	2.4	2.4	2.4	2.4	2.4	2.01	Yes
C226	DBMS Lab	3	3	3	3	3	3	2.01	Yes
C227	R Programming Lab	3	3	3	3	3	3	2.01	Yes
C228	Java Programming Lab	3	3	3	3	3	3	2.01	Yes
C229	Web Application Development Using Full Stack	3	3	3	3	3	3	2.01	Yes

III Year I Semester (2020 -24 Batch) A.Y. 2022-2023

Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	Overall Course attainment	Target Level	Status attained
C311	CN	2.70	2.70	2.70	2.70	2.70	2.70	2.01	Yes
C312	DAA	2.70	2.40	2.70	2.40	2.40	2.52	2.01	Yes
C313	DWDM	2.70	2.70	2.70	2.70	2.70	2.70	2.01	Yes
C314	BE	2.70	2.70	2.70	2.40	2.70	2.64	2.01	Yes
C315	SPM	2.70	2.70	2.70	2.70	2.70	2.70	2.01	Yes
C316	DWDM Lab	2.70	2.70	2.70	2.70	2.70	2.70	2.01	Yes
C317	CN Lab	2.70	2.70	2.70	2.70	2.70	2.70	2.01	Yes
C318	Animation Design	3.00	3.00	3.00	3.00	3.00	3.00	2.01	Yes
C319	Internship	3.00	3.00	3.00	3.00	3.00	3.00	2.01	Yes

III Year II Semester (2020 -24 Batch) A.Y. 2022-2023

Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	Overall Course attainment	Target Level	Status attained
C321	ML	2.7	2.7	2.7	2.7	2.7	2.7	2.01	Yes
C322	CD	2.7	2.4	2.4	2.7	2.7	2.58	2.01	Yes
C323	CNS	2.7	2.7	3	3	2.7	2.82	2.01	Yes
C324	OOAD	2.4	2.4	2.7	2.4	2.4	2.46	2.01	Yes
C325	FMPMC	2.7	2.7	2.7	2.7	2.7	2.7	2.01	Yes
C326	ML Using Python	3	3	3	3	3	3	2.01	Yes
C327	CD Lab	3	3	3	3	3	3	2.01	Yes
C328	CNS Lab	3	3	3	3	3	3	2.01	Yes
C329	Mean Stack Technologies-Module I	3	3	3	3	3	3	2.01	Yes

IV Year I Semester (2020 -24 Batch) A.Y. 2023-2024

Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	Overall Course attainment	Target Level	Status attained
C411	CC	2.7	2.7	2.7	2.7	2.7	2.7	2.01	Yes
C412	SWSN	2.7	2.7	2.7	2.7	2.7	2.7	2.01	Yes
C413	EH	2.7	2.7	2.7	2.7	2.7	2.7	2.01	Yes
C414	EMI	2.7	2.7	2.7	2.7	2.7	2.7	2.01	Yes
C415	RS & GIS	2.7	2.7	2.7	2.7	2.7	2.7	2.01	Yes

C416	UHV	2.7	2.7	2.7	2.7	2.7	2.7	2.01	Yes
C417	Angular JS and Mongo DB	3	3	3	3	3	3	2.01	Yes
C418	Internship	3	3	3	3	3	3	2.01	Yes
C411	CC	2.7	2.7	2.7	2.7	2.7	2.7	2.01	Yes

IV Year II Semester (2020 -24 Batch) A.Y. 2023-2024

Course Code	Course Name	CO1	CO2	CO3	CO4	CO5	Overall Course attainment	Target Level	Status attained
C421	Project & Seminar	3	3	3	3	3	3	2.01	Yes

Table 3.2.2. Direct Attainment (Annexed Separately)

Indirect Attainment (Course End Survey):

Course Code	Course Name	CO1	CO2	CO3	CO4	CO5
C211	M-II	2.5	2.5	2.6	2.7	2.5
C212	OOPS through C++	2.5	2.4	2.7	2.7	2.4
C213	OS	2.4	2.5	2.5	2.7	2.5
C214	SE	2.5	2.4	2.8	2.6	2.5
C215	MFCS	2.5	2.5	2.8	2.8	2.7
C216	OOPS Through C++ Lab	2.4	2.5	2.6	2.7	2.6
C217	OS Lab	2.5	2.6	2.7	2.7	2.6
C218	SE Lab	2.5	2.5	2.6	2.7	2.6
C219	Applications Of Python-Numpy	2.5	2.3	2.5	2.6	2.5

Table 3.2.2.3: Some CO Indirect attainments for R-20 (2020 – 2024) batch (Annexed Separately)

FINAL CO ATTAINMENT (80% Direct +20% Indirect)

Course Code	Course Names	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C211	M-II	2.11	2.11	2.11	2.11									2.11	2.11
C212	OOPS through C++	2.57	2.55	2.59	2.59	2.57								2.58	2.57
C213	OS	2.01	2.02	2.01	2.01									2.02	2.01
C214	SE	2.58	2.58	2.59	2.57	2.60					2.57		2.55	2.59	2.59
C215	MFCS	2.13	2.13	2.13	2.13	2.13					2.13		2.13	2.13	2.13
C216	OOPS Through C++ Lab	2.67	2.67	2.67	2.67	2.67							2.67	2.67	2.67
C217	OS Lab	2.91	2.91	2.91	2.91	2.91							2.91	2.91	2.91
C218	SE Lab	2.67	2.67	2.67	2.67	2.67							2.67	2.67	2.67
C219	Applications Of Python-Numpy	2.90	2.90	2.90	2.90	2.90					2.90		2.90	2.90	2.90
C221	P & S	2.10	2.10	2.10	2.10	2.10					2.10		2.10	2.10	2.10
C222	DBMS	2.11	2.11	2.11	2.11	2.11							2.11	2.11	2.11
C223	FLAT	2.67	2.67			2.67								2.67	2.67
C224	Java Programming	2.07	2.06	2.06	2.08	2.08					2.08		2.06	2.07	2.08
C225	MEFA	2.43	2.43	2.43							2.43			2.43	2.43
C226	DBMS Lab	2.91	2.91	2.91	2.91	2.91					2.91		2.91	2.91	2.91
C227	R Programming Lab	2.91	2.91	2.91	2.91	2.91					2.91		2.91	2.91	2.91
C228	Java Programming Lab	2.92	2.92	2.92	2.92	2.92					2.92		2.92	2.92	2.92
C229	Web Application Development Using Full Stack	2.90	2.90	2.90	2.90	2.90					2.90		2.90	2.90	2.90
C311	CN	2.66	2.66	2.66							2.66			2.66	2.66
C312	DAA	2.53	2.52	2.53	2.52	2.52								2.53	2.53
C313	DWDM	2.65	2.65	2.65	2.65	2.65								2.65	2.65
C314	BE	2.61	2.61	2.62	2.60									2.61	2.61
C315	SPM	2.67	2.67	2.67	2.67				2.67	2.67	2.67	2.67	2.67	2.67	2.67
C316	DWDM Lab	2.68	2.68	2.68	2.68	2.68					2.68		2.68	2.68	2.68
C317	CN Lab	2.67	2.67	2.67	2.67	2.67							2.67	2.67	2.67
C318	Animation Design	2.90		2.90	2.90	2.90					2.90		2.90	2.90	2.90
C319	Internship	2.93	2.93	2.93	2.93	2.93				2.93			2.93	2.93	2.93
C321	ML	2.67	2.67	2.67	2.67	2.67							2.67	2.67	2.67
C322	CD	2.57	2.56	2.56	2.58	2.56							2.57	2.57	2.57
C323	CNS	2.76	2.77	2.77	2.79	2.77							2.76	2.76	2.76
C324	OAD	2.50	2.48	2.50	2.49	2.50							2.50	2.49	2.48
C325	FMPMC	2.67	2.67	2.67		2.67								2.67	2.67
C326	ML Using Python	2.93	2.93	2.93	2.93	2.93							2.93	2.93	2.93
C327	CD Lab	2.91	2.91	2.91	2.91	2.91							2.91	2.91	2.91
C328	CNS Lab	2.91	2.91	2.91	2.91	2.91								2.91	2.43
C329	Mean Stack Technologies-Module I	2.90	2.90	2.90	2.90	2.90				2.90	2.90		2.90	2.90	2.90
C411	CC	2.66	2.66	2.66		2.66							2.66	2.66	2.66
C412	SWSN	2.68	2.68	2.68	2.68	2.68				2.68	2.68		2.68	2.68	2.68
C413	EH	2.66	2.66	2.66	2.66	2.66	2.66			2.66	2.66	2.66		2.66	2.66
C414	EMI	2.67	2.67	2.67	2.67	2.67				2.67	2.67			2.67	2.67

C415	RS & GIS	2.66	2.66	2.66	2.66	2.66				2.66	2.66			2.66	2.66
C416	UHV	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68		2.68	2.68		2.68	2.68
C417	Angular JS and Mongo DB	2.89	2.89	2.89	2.89	2.89								2.89	2.89
C418	Internship	2.90	2.90	2.90	2.90	2.90				2.90			2.90	2.90	2.90
C421	Project	2.96	2.96	2.96	2.96	2.96					2.96			2.96	2.96

Table 3.2.2.4: Final CO Attainment

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

Total Marks 50.00

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

Institute Marks : 10.00

3.3.1. Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)**A. List of assessment tools & processes (5) &****B. The quality/relevance of assessment tools/processes used (5)**

POs/PSOs - Assessment tools and Processes

The institute has the following methods for assessing attainment of POs and PSOs.

1. Direct Method
2. Indirect Method

Range of values		Attainment
Internal	External	
0	0	0
<60%	<40%	1
70% to 80%	40% to 60%	2
>80%	>60%	3
*Internal Target Level: Greater than 80%		
*External Target Level: Greater than 60%		

The attainment levels of course outcomes help in computing the POs and PSOs based on the mapping done

POs / PSOs Attainment	Assessment	Tools	Weight
	Direct Assessment	Overall CO attainment of courses	80%
	Indirect Assessment	Student exit survey	20%
		Alumni survey	
		Employer survey	

Table: 3.3.1.1: Percentage of Assessment for POs and PSOs

The CO values of both theory and laboratory courses with appropriate weightage as per CO-PO mapping, as per Program Articulation Matrix are considered for calculation of direct attainment of PO/PSOs.

PO Direct Attainment is calculated using the following rubric

If CO-PO mapping is high (3) then

PO Direct Attainment = CO Overall attainment * 1.0 (100% of CO Overall attainment)

If CO-PO mapping is moderate (2) then

PO Direct Attainment = CO Overall attainment * 0.8 (80% of CO Overall attainment)

If CO-PO mapping is low (1) then

PO Direct Attainment = CO Overall attainment * 0.6 (60% of CO Overall attainment)

Compute PO average of all COs to get PO direct attainment for a course

Figure 3.3.1.1: Rubrics for POs and PSOs attainment (Annexed Separately)

The above figure 3.3.1.1 represents the evaluation process of POs and PSOs attainment through course outcome attainment.

Program Level Assessment:

Assessment of Program learning outcomes and program-specific outcomes through direct and indirect methods of assessment methodology and tools like comprehensive examinations, rubrics, and surveys etc., is decided keeping in mind the parameters and learning outcomes to be measured and the desired emphasis during the delivery of a Program as prescribed in the course curriculum. The PO-PSO Attainment Tools and Process are represented in Figure 3.3.1.1.

Assessment tools for POs and PSOs

Assessment tools for POs and PSOs are categorized into two categories:

1. Direct assessment method: 80%
2. Indirect assessment method: 20%

1. Direct assessment method

The direct method helps increase the students knowledge and skills based on the cumulative internal examinations and semester-end examinations.

Figure 3.3.1.2: Flow chart for computing POs and PSOs attainment (Annexed Separately)

The various assessment processes used to gather the data for evaluation of program outcomes and program specific outcomes are shown in the CO-PO mapping table and the overall attainment of COs for each course, as shown in the below table 3.3.2.1

Assessment Method	Data	Source for data Collection
Direct Assessment (80%)	Internal Assessment of the Courses related to the respective PO-PSO	Average CO attainment level calculated
	University Examination Assessment of the Courses related to the respective PO-PSO	

Table: 3.3.1.2: Data for direct assessment of PO-PSO

CO assessment is done by considering cumulative internal examinations and semester-end examination marks. It is used to identify the level of COs attainment. The attained COs for a course are multiplied by the values of the CO-PO mapping table and divided by the mapped cells multiplied by the substantial correlation value.

Procedure to Validate the POs and PSOs:

Step 1: Outline the Program Specific Outcomes (PSOs).

Step 2: Outline the Course Outcomes (COs) of each course.

Step 3: Establish a correlation between COs, POs, and PSOs.

Step 4: Define the rubrics to validate POs and PSOs.

Step 5: Define the Target Attainment Levels of POs and PSOs.

Step 6: Estimate the attainment of POs and PSOs through direct and indirect methods.

Step 7: CO and PO The target value is fixed by the Program Assessment Committee(PAC) with the final approval of the Department Committee (DC).

Step 8: Compare the attainment of POs and PSOs with the target level.

2. PO Indirect Assessment:

Program Exit Survey: In this survey, Program Outcomes and Program Specific Outcomes are taken directly as questionnaires, and collected exit students understanding level in 3-point of scale. The tools and processes used in indirect assessment of POs are shown in the table 3.2.1.3.

Figure 3.3.1.3: Student Exit Survey Empty Form (Annexed Separately)

Figure 3.3.1.4 : Student Exit Survey Fille in Form (Annexed Separately)

Figure 3.3.1.5: Alumni Survey Empty Form (Annexed Separately)

Figure 3.3.1.6:Alumni Survey Fille in Form (Annexed Separately)

Figure 3.3.1.7: Employer Survey Empty Form (Annexed Separately)

Figure 3.3.1.8: Employer Survey Fille in Form (Annexed Separately)

Figure 3.3.1.9: Flow chart for validating POs and PSOs attainment and action taken (Annexed Separately)

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
C211	2.11	1.83	1.69	1.83	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212	2.57	2.21	2.25	2.25	2.23	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213	1.74	1.48	1.74	1.74	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214	2.58	2.24	2.07	2.06	2.25	PO6	PO7	PO8	PO9	2.06	PO11	2.04
C215	1.71	1.85	1.85	1.85	1.71	PO6	PO7	PO8	PO9	1.85	PO11	1.71
C216	2.67	2.49	2.67	2.31	2.31	PO6	PO7	PO8	PO9	PO10	PO11	1.78
C217	2.91	2.52	2.52	2.52	2.91	PO6	PO7	PO8	PO9	PO10	PO11	2.52
C218	2.67	2.49	2.32	2.49	2.67	PO6	PO7	PO8	PO9	PO10	PO11	2.32
C219	2.90	2.70	2.70	2.51	2.51	PO6	PO7	PO8	PO9	2.32	PO11	2.51
C221	2.10	1.96	1.82	1.68	1.68	PO6	PO7	PO8	PO9	1.668	PO11	1.68
C222	2.11	1.83	1.97	1.69	1.55	PO6	PO7	PO8	PO9	PO10	PO11	1.69
C223	2.67	2.31	PO3	PO4	2.14	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C224	2.07	1.79	1.79	1.66	1.52	PO6	PO7	PO8	PO9	1.66	PO11	1.79
C225	2.27	1.94	1.94	PO4	PO5	PO6	PO7	PO8	PO9	1.94	PO11	PO12
C226	2.91	2.72	2.33	2.33	2.91	PO6	PO7	PO8	PO9	2.33	PO11	2.33
C227	2.91	2.71	2.13	2.33	2.91	PO6	PO7	PO8	PO9	2.13	PO11	2.33
C228	2.92	2.73	2.34	2.53	2.92	PO6	PO7	PO8	PO9	2.34	PO11	2.53
C229	2.70	2.32	2.51	2.51	2.90	PO6	PO7	PO8	PO9	2.32	PO11	2.32
C311	2.49	2.49	2.31	PO4	PO5	PO6	PO7	PO8	PO9	2.13	PO11	PO12
C312	2.36	1.85	2.36	2.19	1.85	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313	2.65	2.30	2.65	2.12	2.12	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314	2.44	2.26	2.10	2.08	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315	2.49	2.14	2.31	2.31	PO5	PO6	PO7	2.31	2.31	2.14	1.78	2.14

C316	2.50	1.79	2.68	2.68	2.50	PO6	PO7	PO8	PO9	2.14	PO11	2.14
C317	2.67	2.31	2.49	2.31	2.13	PO6	PO7	PO8	PO9	PO10	PO11	2.13
C318	2.32	PO2	2.32	2.32	2.70	PO6	PO7	PO8	PO9	2.12	PO11	2.32
C319	2.15	2.34	2.34	2.34	2.34	PO6	PO7	PO8	2.34	PO10	PO11	2.54
C321	2.49	2.31	2.31	2.13	2.31	PO6	PO7	PO8	PO9	PO10	PO11	2.13
C322	2.57	2.39	2.39	1.89	2.05	PO6	PO7	PO8	PO9	PO10	PO11	2.23
C323	2.76	2.59	2.21	2.23	2.21	PO6	PO7	PO8	PO9	PO10	PO11	2.39
C324	2.33	1.99	2.33	1.66	2.00	PO6	PO7	PO8	PO9	PO10	PO11	2.00
C325	2.67	1.78	2.32	PO4	2.14	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C326	2.93	2.54	2.93	2.54	2.93	PO6	PO7	PO8	PO9	PO10	PO11	2.54
C327	2.91	2.33	2.52	2.71	2.91	PO6	PO7	PO8	PO9	PO10	PO11	2.52
C328	2.91	2.33	2.53	2.33	2.72	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C329	2.90	2.13	2.71	2.32	2.90	PO6	PO7	PO8	2.13	2.13	PO11	2.13
C411	2.66	2.49	2.13	PO4	2.49	PO6	PO7	PO8	PO9	PO10	PO11	2.31
C412	2.68	2.50	2.14	2.32	2.50	PO6	PO7	PO8	1.96	1.96	PO11	2.14
C413	2.66	2.66	2.48	1.95	2.66	1.77	PO7	PO8	1.95	1.95	1.77	PO12
C414	2.67	2.49	2.31	1.96	2.31	PO6	PO7	PO8	2.14	2.14	PO11	PO12
C415	2.66	2.48	2.48	1.95	2.31	PO6	PO7	PO8	1.95	2.13	PO11	PO12
C416	2.68	2.32	1.96	2.68	2.14	2.50	2.68	2.14	PO9	1.96	2.14	PO12
C417	2.89	2.32	2.32	2.89	2.51	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C418	2.13	2.32	2.32	2.32	2.32	PO6	PO7	PO8	2.32	PO10	PO11	2.51
C421	2.96	2.76	2.96	2.76	2.57	PO6	PO7	PO8	PO9	2.17	PO11	PO12
C111	2.25	2.11	PO3	PO4	PO5	PO6	PO7	PO8	PO9	2.25	PO11	1.80
C112	2.67	2.31	PO3	2.49	PO5	PO6	PO7	PO8	PO9	PO10	PO11	2.31
C113	2.15	1.86	PO3	1.87	1.86	PO6	PO7	PO8	PO9	1.72	PO11	1.86
C114	2.10	2.10	1.82	PO4	1.82	PO6	PO7	PO8	PO9	PO10	PO11	1.40
C115	2.91	2.91	2.13	2.52	2.71	PO6	PO7	PO8	PO9	PO10	PO11	1.94
C116	2.52	2.52	PO3	PO4	2.52	PO6	PO7	PO8	2.52	2.91	PO11	2.52
C117	2.91	2.91	2.53	2.53	2.72	PO6	PO7	PO8	PO9	PO10	PO11	2.14
C118	2.68	2.32	2.32	2.50	2.32	PO6	PO7	PO8	PO9	2.32	PO11	1.78
C121	2.72	2.72	2.54	2.36	2.17	PO6	PO7	PO8	PO9	PO10	PO11	2.18
C122	2.11	1.83	1.69	1.69	1.69	PO6	PO7	PO8	PO9	PO10	PO11	1.69
C123	2.17	2.03	2.03	1.89	1.73	PO6	PO7	PO8	PO9	PO10	PO11	1.73
C124	2.07	1.81	1.93	1.81	1.66	PO6	PO7	PO8	PO9	PO10	PO11	1.52
C125	2.11	1.97	1.97	1.69	1.69	PO6	PO7	PO8	PO9	PO10	PO11	1.69
C126	2.91	2.13	2.71	2.91	2.71	PO6	PO7	PO8	PO9	2.13	PO11	2.33
C127	2.92	2.53	2.73	2.73	2.92	PO6	PO7	PO8	PO9	2.34	PO11	2.53
C128	2.92	2.53	2.92	2.53	2.53	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PO Attainment	2.59	2.38	2.41	2.38	2.46	2.28	2.72	2.35	2.31	2.28	2.11	2.29

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.54	2.28	2.30	2.24	2.34	2.14	2.68	2.22	2.18	2.12	1.90	2.12
InDirect Attainment	2.79	2.77	2.85	2.93	2.93	2.85	2.90	2.89	2.85	2.93	2.93	2.95

PSO Attainment

Course	PSO1	PSO2
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C111	2.25	2.10
C112	2.67	2.31
C113	2.15	2.00
C114	1.96	1.96
C115	2.52	2.91
C116	2.71	2.91
C117	2.91	2.72
C118	2.68	2.50
C121	2.54	2.54
C122	1.97	1.97
C123	2.03	2.01
C124	1.93	1.93
C125	2.11	1.83
C126	2.91	2.71
C127	2.92	PSO2
C128	2.92	2.92
C211	1.83	2.11
C212	2.41	2.57
C213	1.48	1.74
C214	2.07	2.41
C215	1.99	1.99
C216	2.67	2.49
C217	2.72	2.91
C218	2.67	2.67
C219	2.90	2.70
C221	2.10	2.10
C222	2.11	2.11
C223	2.49	2.49
C224	2.07	1.80
C225	2.10	2.10
C226	2.91	2.33
C227	2.91	2.52
C228	2.92	2.73
C229	2.90	2.51
C311	2.31	2.49
C312	2.36	2.36
C313	2.65	2.30
C314	2.44	2.26
C315	2.31	2.49
C316	2.32	2.68
C317	2.31	2.49
C318	2.32	2.70
C319	2.54	2.34
C321	2.67	2.67
C322	2.57	2.57
C323	2.76	2.39
C324	2.49	2.15

C325	2.32	2.14
C326	2.93	2.74
C327	2.91	2.71
C328	2.91	2.11
C329	2.90	2.71
C411	2.66	2.66
C412	2.68	1.96
C413	2.66	2.30
C414	2.49	2.31
C415	2.48	2.48
C416	2.68	2.50
C417	2.89	2.51
C418	2.51	2.32
C421	2.96	2.96
PSO Attainment	2.58	2.50

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	2.50	2.40
InDirect Attainment	2.91	2.92

4 STUDENTS' PERFORMANCE (150)

Total Marks 111.18

:

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)	90	90	60	60	60	120	120
Total number of students admitted in first year minus number of students migrated to other programs/ institutions plus No. of students migrated to this program (N1)	88	85	52	42	55	78	57
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	0	4	2	2	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)	88	85	56	44	57	78	57

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)	88	0	0	0	0
2023-24 (CAYm1)	85	42	0	0	0
2022-23 (CAYm2)	56	32	26	0	0
2021-22 (CAYm3)	44	28	26	25	0
2020-21 (LYG)	57	32	29	24	23
2019-20 (LYGm1)	78	46	42	40	38
2018-19 (LYGm2)	57	39	38	36	36

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)	88	0	0	0	0
2023-24 (CAYm1)	85	76	0	0	0
2022-23 (CAYm2)	56	52	51	0	0
2021-22 (CAYm3)	44	42	43	38	0
2020-21 (LYG)	57	54	52	48	28
2019-20 (LYGm1)	78	75	72	70	50
2018-19 (LYGm2)	57	57	56	52	40

4.1 Enrolment Ratio (20)

Total Marks 20.00

Institute Marks : 20.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2024-25 (CAY)	90	88	97.78
2023-24 (CAYm1)	90	85	94.44
2022-23 (CAYm2)	60	52	86.67

Average [(ER1 + ER2 + ER3) / 3] : 92.96

Assessment : 20.00

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

Total Marks 21.90

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

Institute Marks : 12.75

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	57.00	78.00	57.00
Y Number of students who have graduated without backlogs in the stipulated period	23.00	38.00	36.00
Success Index [SI = Y / X]	0.40	0.49	0.63

Average SI [(SI1 + SI2 + SI3) / 3] : 0.51

Assessment [25 * Average SI] : 12.75

4.2.2 Success rate in stipulated period (15)

Institute Marks : 9.15

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	57.00	78.00	57.00
Y Number of students who have graduated in the stipulated period	28.00	50.00	40.00
Success Index [SI = Y / X]	0.49	0.64	0.70

Average SI [(SI1 + SI2 + SI3) / 3]: 0.61

Assessment [15 * Average SI] : 9.15

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 10.12

Institute Marks : 10.12

Academic Performance	CAYm3 (2021-22)	LYG (2020-21)	LYGm1 (2019-20)
Mean of CGPA or mean percentage of all successful students(X)	7.42	7.67	6.78
Total number of successful students(Y)	38.00	48.00	70.00
Totalnumber of students appeared in the examination(Z)	43.00	52.00	72.00
API [X*(Y/Z)]:	6.59	7.06	6.59

Average API [(AP1 + AP2 + AP3)/3] : 6.75

Assessment [1.5 * AverageAPI] : 10.12

4.4 Academic Performance in Second Year (15)

Total Marks 10.36

Institute Marks : 10.36

Academic Performance	CAYm2 (2022-23)	CAYm3 (2021-22)	LYG (2020-21)
Mean of CGPA or mean percentage of all successful students(X)	7.41	7.36	7.29
Total number of successful students (Y)	51.00	43.00	52.00
Total number of students appeared in the examination (Z)	56.00	44.00	56.00
API [X * (Y/Z)]	6.75	7.19	6.77

Average API [(AP1 + AP2 + AP3)/3] : 6.90

Assessment [1.5 * AverageAPI] : 10.36

4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 28.80

Item	LYG (2020-21)	LYGm1 (2019-20)	LYGm2 (2018-19)
Total No of Final Year Students(N)	48.00	70.00	52.00
No of students placed in the companies or government sector(X)	36.00	49.00	37.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	0.00	0.00	0.00
No of students turned entrepreneur in engineering/technology (Z)	0.00	0.00	0.00
$x + y + z =$	36.00	49.00	37.00
Placement Index $[(X+Y+Z)/N]$:	0.75	0.70	0.71

Average Placement $[(P1 + P2 + P3)/3]$: 0.72

Assessment $[40 * \text{Average Placement}]$: 28.80

Program Name :

Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	BOYA VISHNUVARDHAN	20HM1A0504	PRO IT Solutions	PRO IT/OFFER/2023-2024/HYD/0002
2	KANDUKURI NEWTON	20HM1A0517	PRO IT Solutions	PRO IT/OFFER/2023-2024/HYD/0003
3	PALLAPU SAILAJA	20HM1A0531	PRO IT Solutions	PRO IT/OFFER/2023-2024/HYD/0004
4	SANIVARPU VISWAS MARREDDY	20HM1A0538	PRO IT Solutions	PRO IT/OFFER/2023-2024/HYD/0005
5	THOTA VENKATA NAVEEN	20HM1A0545	PRO IT Solutions	PRO IT/OFFER/2023-2024/HYD/0006
6	ADDANKI AJAY	20HM1A0501	SYNCTRA SOLUTIONS	SYNCTRA /HYD/SEP 2021/43
7	KAPU VISHNUVARDHAN REDDY	20HM1A0519	SYNCTRA SOLUTIONS	SYNCTRA /HYD/SEP 2021/44
8	KUDUMULA SUMITHRA	20HM1A0522	HIROTOIND TECHNOLOGIES	HIT/HYD/JAN2024/42
9	RAPTHADU SREENATH	20HM1A0536	SMART INNOVATIONS Pvt Ltd	SI/HYD/JULY/2022/12
10	GALLA MOHAN KUMAR	20HM1A0510	SMART SELECT SOLUTIONS	SMART/ HYD/MAR2024/29
11	PATHIPATI MAHESH	20HM1A0533	SYNCTRA SOLUTIONS	SYNCTRA /HYD/SEP 2021/45
12	TALARI MAHESH	20HM1A0542	SYNCTRA SOLUTIONS	SYNCTRA /HYD/SEP 2021/46
13	VELPULA CHANDRIKA	20HM1A0548	SYNCTRA SOLUTIONS	SYNCTRA /HYD/SEP 2021/47
14	MADDIRALA HIMA BINDU	20HM1A0523	HIROTOIND TECHNOLOGIES	HIT/HYD/JAN2024/43
15	MANNUVA MALLIKHARJUNA	20HM1A0526	HIROTOIND TECHNOLOGIES	HIT/HYD/JAN2024/44
16	SAKE VINOD	20HM1A0537	SMART INNOVATIONS Pvt Ltd	SI/HYD/JULY/2022/13
17	MEENIGA SRAVANI	20HM1A0527	SMART SELECT SOLUTIONS	SMART/ HYD/MAR2024/30
18	SHYAMALA KAVYA	20HM1A0540	SMART SELECT SOLUTIONS	SMART/ HYD/MAR2024/31
19	BEJJIPALLI JEEVAMANI	20HM1A0502	GLOBAL E SMART TECHNOLOGIES	GLOBAL/HYD/DEC2023/22
20	MALYAM AKHILAMMA	20HM1A0524	HIROTOIND TECHNOLOGIES	HIT/HYD/JAN2024/45
21	SHAIK ROSHINI	20HM1A0539	SMART INNOVATIONS Pvt Ltd	SI/HYD/JULY/2022/14
22	KOSURI LAKSHMANA RAO	21HM5A0501	SMART SELECT SOLUTIONS	SMART/ HYD/MAR2024/32
23	Ediga Vamshi Goud	20HM1A0509	SMART SELECT SOLUTIONS	SMART/ HYD/MAR2024/33
24	YATHAM MUTYALU	20HM1A0554	SYNCTRA SOLUTIONS	SYNCTRA /HYD/SEP 2021/48
25	BOKKA VENKATRAO	20HM1A0503	GLOBAL E SMART TECHNOLOGIES	GLOBAL/HYD/DEC2023/23
26	NALAGANGU VENKATA PRAVEEN	20HM1A0528	HIROTOIND TECHNOLOGIES	HIT/HYD/JAN2024/46
27	TAMMU CHANDU	20HM1A0543	SMART INNOVATIONS Pvt Ltd	SI/HYD/JULY/2022/15
28	Kavali Narendra	20HM1A0520	SMART SELECT SOLUTIONS	SMART/ HYD/MAR2024/34
29	YAKKANTI SAI TEJA	20HM1A0550	SMART INNOVATIONS Pvt Ltd	SI/HYD/JULY/2022/16
30	YARRAMREDDY AARTHI REDDY	20HM1A0552	SMART INNOVATIONS Pvt Ltd	SI/HYD/JULY/2022/17
31	NUNASANVATH TIRUMALA BAI	20HM1A0530	HIROTOIND TECHNOLOGIES	HIT/HYD/JAN2024/47
32	PATHIPATI HEMALATHA	20HM1A0532	HIROTOIND TECHNOLOGIES	HIT/HYD/JAN2024/48
33	DARNASI RAKSHITHA	20HM1A0507	GLOBAL E SMART TECHNOLOGIES	GLOBAL/HYD/DEC2023/24
34	DUGGIMI SAI KUMAR	20HM1A0508	GLOBAL E SMART TECHNOLOGIES	GLOBAL/HYD/DEC2023/25
35	GOGULA UMAMAHESWARI	20HM1A0512	GLOBAL E SMART TECHNOLOGIES	GLOBAL/HYD/DEC2023/26
36	KAMBAM ASWINI	20HM1A0515	GLOBAL E SMART TECHNOLOGIES	GLOBAL/HYD/DEC2023/27

Assessment Year Name : CAYm2

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ONGOLU PUSHPA RANI	19HM1A0554	Tata Consultancy Services	TCSL/DT20222948422/ Hyderabad
2	TALATALA GEETHA SRAVANTHI	19HM1A0574	Tata Consultancy Services	TCSL/DT20223062279/ Hyderabad
3	MALLALA REVATHI	19HM1A0543	Tata Consultancy Services	TCSL/DT20229875527/ Hyderabad
4	TIPPIREDDY GEETHA RAMYA	19HM1A0576	PRO IT Solutions	PRO IT/OFFER/2023-2024/HYD/00010
5	BUDDI DIVYA SREE	19HM1A0511	PRO IT Solutions	PRO IT/OFFER/2023-2024/HYD/0006
6	MADARAJU PREMA KUMARI	19HM1A0541	PRO IT Solutions	PRO IT/OFFER/2023-2024/HYD/0007
7	PANUGANTI P SUBBA RAO GUPTA	19HM1A0558	PRO IT Solutions	PRO IT/OFFER/2023-2024/HYD/0008
8	SAKAM AHALYA	19HM1A0567	PRO IT Solutions	PRO IT/OFFER/2023-2024/HYD/0009
9	ANKALU SIVA PRASAD	19HM1A0502	Boston It Solutions Pvt. Ltd.	BOSTON/2023/AMRMCET/1
10	CHEREDDY DANALAKSHMI	19HM1A0517	Boston It Solutions Pvt. Ltd.	BOSTON/2023/AMRMCET/2
11	Ganipineni Sushma Chowdary	19HM1A0521	Boston It Solutions Pvt. Ltd.	BOSTON/2023/AMRMCET/3
12	Golla Sirisha	19HM1A0522	Boston It Solutions Pvt. Ltd.	BOSTON/2023/AMRMCET/4
13	MODI NAMRATHA	19HM1A0548	Boston It Solutions Pvt. Ltd.	BOSTON/2023/AMRMCET/5
14	PALLAPATI CHENNAKESAVA	19HM1A0557	Boston It Solutions Pvt. Ltd.	BOSTON/2023/AMRMCET/6
15	S Sruthi	19HM1A0566	Boston It Solutions Pvt. Ltd.	BOSTON/2023/AMRMCET/7
16	Ediga Narendra	19HM1A0520	EXATHOUGHT TECHNOLOGY CONSULTING PRIVATE LIMITED	EXA/2023/AMRMCET/1
17	MUKTHAPURAM SANGEETHA	19HM1A0550	Teamlease Services Limited	Teamlease/2023/AMRMCET/1
18	CHINNAPUREDDY ANUSHA	19HM1A0518	Thinksynq	Thinksynq/2023/AMRMCET/1
19	DEVARAKONDA TEJASWANI	19HM1A0519	Thinksynq	Thinksynq/2023/AMRMCET/2
20	Kaipu Venkata Naga Bharathi	19HM1A0530	Thinksynq	Thinksynq/2023/AMRMCET/3
21	KONCHA NANDANAJYOTHI	19HM1A0536	Thinksynq	Thinksynq/2023/AMRMCET/4
22	Koneti Triveni	19HM1A0537	Thinksynq	Thinksynq/2023/AMRMCET/5
23	Nandipati Siva Jyothi	19HM1A0551	Thinksynq	Thinksynq/2023/AMRMCET/6
24	PERAM SRAVANTHI	19HM1A0559	Thinksynq	Thinksynq/2023/AMRMCET/7
25	Sake Akhila	19HM1A0568	Thinksynq	Thinksynq/2023/AMRMCET/8
26	Samrasu Ramadevi	19HM1A0569	Thinksynq	Thinksynq/2023/AMRMCET/9
27	BEDADHALA NAVYA SREE	19HM1A0507	GLOBAL E SMART TECHNOLOGIES	GLOBAL/HYD/JAN2023 /20
28	BADDIGAM ANITHA	19HM1A0505	GLOBAL E SMART TECHNOLOGIES	GLOBAL/HYD/JAN2023 /18
29	BATHULA SURYANARAYANA	19HM1A0506	GLOBAL E SMART TECHNOLOGIES	GLOBAL/HYD/JAN2023 /19
30	MATAM MEGHANA	19HM1A0544	HIROTOIND TECHNOLOGIES	HIT/ HYD/ JAN 2022/31
31	GUVVALA ASWINI	19HM1A0525	SMART SELECT SOLUTIONS	SMART/ HYD/JAN 2022/39
32	INDLA MARIYA RAJU	19HM1A0526	HIROTOIND TECHNOLOGIES	HIT/ HYD/ JAN 2022/27
33	POSA PAVITHRA	19HM1A0561	SYNCTRA SOLUTIONS	SYNCTRA/HYD/SEP2022/6
34	NASYAM VENNELA	19HM1A0553	SMART INNOVATIONS Pvt Ltd	SI/HYD/JULY/2022/17
35	BOGA GANGADHAR	19HM1A0509	GLOBAL E SMART TECHNOLOGIES	GLOBAL/HYD/JAN2023 /21
36	BUSSA SHARON PUSHPA	19HM1A0513	SMART SELECT SOLUTIONS	SMART/ HYD/JAN 2022/37
37	KAIPU RADHIKA	19HM1A0529	HIROTOIND TECHNOLOGIES	HIT/ HYD/ JAN 2022/29
38	S MAMATHA	19HM1A0565	SYNCTRA SOLUTIONS	SYNCTRA/HYD/SEP2022/8
39	SYED MOHAMMAD ZAMEER	19HM1A0572	SYNCTRA SOLUTIONS	SYNCTRA/HYD/SEP2022/10
40	BOYA SOMNATH	19HM1A0510	GLOBAL E SMART TECHNOLOGIES	GLOBAL/HYD/JAN2023 /22
41	CHANGALA ARAVIND	19HM1A0515	SMART SELECT SOLUTIONS	SMART/ HYD/JAN 2022/38
42	SHAIK GOWSYA	19HM1A0570	SYNCTRA SOLUTIONS	SYNCTRA/HYD/SEP2022/9
43	BUDDOLLA HEMALATHA	19HM1A0512	SMART SELECT SOLUTIONS	SMART/ HYD/JAN 2022/36
44	JENNE SUSEELA	19HM1A0527	HIROTOIND TECHNOLOGIES	HIT/ HYD/ JAN 2022/28
45	MADDIMINENI PRAMOD KUMAR	19HM1A0546	SMART INNOVATIONS Pvt Ltd	SI/HYD/JULY/2022/16
46	REBBA GOPI	19HM1A0564	SYNCTRA SOLUTIONS	SYNCTRA/HYD/SEP2022/7

47	PALAM DINESH REDDY	19HM1A0555	SMART INNOVATIONS Pvt Ltd	SI/HYD/JULY/2022/18
48	KAMARATHI MOUNIKA	19HM1A0531	HIROTOIND TECHNOLOGIES	HIT/ HYD/ JAN 2022/30
49	PIDATHALA ANGEL	19HM1A0560	SMART INNOVATIONS Pvt Ltd	SI/HYD/JULY/2022/19

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	ATLURI KAVITHA	18HM1A0503	Capgemini Technology Services India Limited	1621993
2	Dugalam Eswar	18HM1A0517	Capgemini Technology Services India Limited	1486769
3	CHINNAPA REDDY MOUNIKA	18HM1A0512	PRO IT Solutions	PRO IT/OFFER/2021-2022/HYD/0018
4	BASI SWATHI	18HM1A0505	PRO IT Solutions	PRO IT/OFFER/2021-2022/HYD/0019
5	BILEPPAGARI KURBA SAI KEERTHANA	18HM1A0506	PRO IT Solutions	PRO IT/OFFER/2021-2022/HYD/0020
6	PATIL DIVYA	18HM1A0542	PRO IT Solutions	PRO IT/OFFER/2021-2022/HYD/0021
7	RATARA VIKAS	18HM1A0548	PRO IT Solutions	PRO IT/OFFER/2021-2022/HYD/0022
8	Kuruba Karunakaran	18HM1A0526	Cogente Services	COGENTE/2022/AMRMCET/1
9	Cheemala Prema Sankar	18HM1A0509	HCL Technologies Ltd.	HCL/2022/AMRMCET/1
10	AITHARAPPA GARI SINDHU	18HM1A0502	Infinite Computer Solutions	INFINITE/2022/AMRMCET/1
11	R Sairoopa	18HM1A0547	Infinite Computer Solutions	INFINITE/2022/AMRMCET/2
12	Vannura Swamy Harijana	18HM1A0519	Infinite Computer Solutions	INFINITE/2022/AMRMCET/3
13	MADIGA KAVYA	18HM1A0531	Infinite Computer Solutions	INFINITE/2022/AMRMCET/4
14	PONNAGANTI CHAITANYA	18HM1A0545	Infinite Computer Solutions	INFINITE/2022/AMRMCET/5
15	SUREPALLI HYMAVATHI	18HM1A0551	Infinite Computer Solutions	INFINITE/2022/AMRMCET/6
16	YERREDDULA HARI PRIYA REDDY	18HM1A0557	Infinite Computer Solutions	INFINITE/2022/AMRMCET/7
17	PUNDOLLA SAIROOPA	18HM1A0546	Wipro	WIPRO/2022/AMRMCET/1
18	BOYA JUTURU KALYANI	18HM1A0507	Global E Smart Technoloies	GLOBAL/HYD/DEC/2021/10
19	CHEPURI RAMYA	18HM1A0510	Global E Smart Technoloies	GLOBAL/HYD/DEC/2021/11
20	DORAGARI SRIVAMSI	18HM1A0515	Global E Smart Technoloies	GLOBAL/HYD/DEC/2021/12
21	GOLLA NARMADA	18HM1A0518	Global E Smart Technoloies	GLOBAL/HYD/DEC/2021/13
22	KAMPARAJU SIREESHA	18HM1A0522	SMART SELECT Solutions	SMART/ HYD/JAN/2022/18
23	KONKA MAMATHA	18HM1A0524	SMART SELECT Solutions	SMART/ HYD/JAN/2022/19
24	KANDUKURI DEEVENA	18HM1A0525	SMART SELECT Solutions	SMART/ HYD/JAN/2022/20
25	POLEPALLI AKHIL	18HM1A0544	HIROTOIND TECHNOLOGIES	HIT/ HYD/ JAN/2022/27
26	SANDEPOGU SRAVANI	18HM1A0550	HIROTOIND TECHNOLOGIES	HIT/ HYD/ JAN/2022/29
27	VUDUMULA SHANMUKHA NAIDU	18HM1A0556	SYNCTRA SOLUTIONS	SYNCTRA /HYD/SEP 2021/17
28	M MOULIKA	18HM1A0528	SMART SELECT Solutions	SMART/ HYD/JAN/2022/21
29	PALADUGU NEELAVATHI	18HM1A0539	Smart Innovations Pvt Ltd	SI/HYD/JULY/2022/43
30	SAKE JYOSHNA	18HM1A0549	HIROTOIND TECHNOLOGIES	HIT/ HYD/ JAN/2022/28
31	TADIMARRI KIRAN KUMAR	18HM1A0552	SYNCTRA SOLUTIONS	SYNCTRA /HYD/SEP 2021/15
32	MALLAPPA GARI NARASIMHAPPA	18HM1A0532	Smart Innovations Pvt Ltd	SI/HYD/JULY/2022/40
33	NARIMI SUNEETHA	18HM1A0536	Smart Innovations Pvt Ltd	SI/HYD/JULY/2022/42
34	THALLAPOGU USHA RANI	18HM1A0553	SYNCTRA SOLUTIONS	SYNCTRA /HYD/SEP 2021/16
35	MULAKALAPALLI PRIYANKA	18HM1A0534	Smart Innovations Pvt Ltd	SI/HYD/JULY/2022/41
36	PATIL SHIVA PRASAD	18HM1A0543	HIROTOIND TECHNOLOGIES	HIT/ HYD/ JAN/2022/26
37	H.YUVARAJU	18HM1A0520	SYNCTRA SOLUTIONS	SYNCTRA /HYD/SEP 2021/18

4.6 Professional Activities (20)

Total Marks 20.00

4.6.1 Professional societies/ chapters and organizing engineering events

A. Availability & activities of professional societies / chapters (3)

Sl. No	Academic Year	No. of Faculty Memberships	No. of student membership
1	2024-25	16	166
2	2023-24	16	145
3	2022-23	15	165

List of Faculty as Professional body members during the academic year: 2024-25 (CAY)

Sl. No	Name of the Faculty	Name of the professional society as member
1	Dr. Merugu Anand Kumar	CSI, IAENG and AMRCS
2	Dr. G. Samba Siva Rao	AMRCS
3	Dr. Inaganti Shylaja	AMRCS
4	Dr. Padigala Suresh	AMRCS
5	Dr. Godagala Madhava Rao	AMRCS
6	Nagam Aanjaneyulu	CSI & AMRCS
7	Arekatla Madhava Reddy	AMRCS
8	Arekatla Jaganmohan Reddy	AMRCS
9	Lankala Mounika	AMRCS
10	Vanapamula Veerabrahmachari	CSI & AMRCS
11	Motupalli Mallikarjuna Rao	AMRCS
12	Aremandla Sai Pujitha	AMRCS
13	Chevula Rekha	CSI & AMRCS
14	Shaik Guntur Mahabub Subhani	CSI & AMRCS
15	Butukuru Rojalakshmi	CSI & AMRCS
16	Gudipati Mohan Singh Yadav	AMRCS

List of Students as Professional body members during academic year: 2024-25 (CAY)

Sl. No	Hall Ticket Number	Name of the Student
1	23HM1A0501	Adepu Lavanya
2	23HM1A0502	Annapureddy Kiran
3	23HM1A0503	Annapureddy Rajeswari
4	23HM1A0504	Atluri Amrutha
5	23HM1A0505	Badisa Ashok
6	23HM1A0506	Badisa Rakesh
7	23HM1A0507	Banda Baji
8	23HM1A0509	Bellamkonda Sanjeevarao
9	23HM1A0510	Bhukya Kalyan Naik
10	23HM1A0511	Birudu Vijay Kumar
11	23HM1A0512	Bobba Surendra Reddy
12	23HM1A0513	Bodeddula Nandeeshwar Reddy
13	23HM1A0514	Chelli Neerajitha
14	23HM1A0516	Chinta Poojitha
15	23HM1A0517	Chintala Nagi Reddy
16	23HM1A0519	Daram Varshitha
17	23HM1A0520	Dasari Abhi Ram
18	23HM1A0521	Dhulipalla Chinna Yalamanda
19	23HM1A0522	Dosakayalapati Renuka
20	23HM1A0523	Elpuri Sajeehd
21	23HM1A0524	Garlapati Yelleswara Rao
22	23HM1A0525	Garnipudi Praveen Kumar
23	23HM1A0526	Gopanaboina Gowry
24	23HM1A0527	Gundala Vamsi

25	23HM1A0528	Gundu Pavan Kumar
26	23HM1A0529	Gunji Rajeswari
27	23HM1A0530	Guntaka Santhosh Kumar Reddy
28	23HM1A0531	Jimkala Rajesh
29	23HM1A0532	Kakarla Kamalakar
30	23HM1A0533	Kamatham Arun Kumar
31	23HM1A0534	Karri Lakshmi Vikas Reddy
32	23HM1A0535	Kasukurthi Tejaswini
33	23HM1A0536	Kojja Pavan
34	23HM1A0537	Kolaka Naveen
35	23HM1A0540	Kunala Jaswanthi
36	23HM1A0541	Kuruba Dinesh Gowd
37	23HM1A0542	Lakkepogu Mahima Raju
38	23HM1A0543	Lanjepalli Vasantha
39	23HM1A0544	Maddipi Lakshmi Narayana Reddy
40	23HM1A0545	Maganti Ajay Kumar
41	23HM1A0546	Mallarpu Chandana
42	23HM1A0547	Mallela Vishnuvardhanbabu
43	23HM1A0548	Manchikalapati Pavan Venu Kumar
44	23HM1A0549	Mannam Ramaiah
45	23HM1A0550	Manyam Veera Venkata Gopi Samba Siva Rao
46	23HM1A0551	Meruva Hari
47	23HM1A0552	Middepogu Maneesha
48	23HM1A0553	Navuluri Raja Sekhar
49	23HM1A0554	Nimmaka Babu Rao
50	23HM1A0556	Pallepogu Pavan Kumar
51	23HM1A0557	Parimalla Sowjanya
52	23HM1A0558	Peddapudi Nasar Reddy
53	23HM1A0559	Peela Gopinadh
54	23HM1A0560	Polaki Manikanta
55	23HM1A0561	Poleboina Ramana
56	23HM1A0562	Poluru Mokshitha Naga Venkata Asha
57	23HM1A0563	Putluru Amarnath Reddy
58	23HM1A0564	Rudrapati China Srinivasa Rao
59	23HM1A0565	Sanivarapu Siva Kasi Reddy
60	23HM1A0566	Sathikala Nagaguru Lakshmi
61	23HM1A0567	Sayyad Abdul Khadar
62	23HM1A0568	Shaik Adil
63	23HM1A0571	Talari Revathi
64	23HM1A0572	Telaprolu Jayanth
65	23HM1A0573	Tenali Nandini
66	23HM1A0575	Vaka Madhu Mohan Reddy
67	23HM1A0576	Vallem Rajeswari
68	23HM1A0577	Vasa Roj Pradeepa
69	23HM1A0578	Vattem Ramu
70	23HM1A0579	Vendekatla Vishnu Goud
71	23HM1A0580	Vurranki Jitendra
72	23HM1A0581	Yannam Prasanna Kumari
73	23HM1A0582	Yaradesi Balaiah
74	23HM1A0583	Yarraguntla Manoj Kumar
75	23HM1A0584	Yarramreddy Aditya Reddy
76	23HM1A0585	Potteti Ajay Kumar Reddy

77	22AR1A0533	Kodavalla Omkara Mani Kanta
78	20HM1A0516	Kamineni Priyanka
79	22HM1A0501	Allam Sai Krishna
80	22HM1A0502	Angajala Veeralingeswara
81	22HM1A0503	Atchakkagari Kranthi Kumar
82	22HM1A0504	Avula Veeranjineyulu
83	22HM1A0505	Bonthala Govinda Rajulu
84	22HM1A0506	Challa Venkata Lakshmi Manikanta
85	22HM1A0507	Chebrolu Jyothika Sai
86	22HM1A0508	Dammalapati Sravanthi
87	22HM1A0509	Danda Sarita
88	22HM1A0510	Devarakonda Manikanta
89	22HM1A0511	Dodlavaram Vishnu Vardhan
90	22HM1A0512	Edigattu Sreenivasulu
91	22HM1A0513	Gogula Ajay
92	22HM1A0515	Gudipati Pallavi
93	22HM1A0516	Gummadi Praveen
94	22HM1A0517	Gunja Narendra
95	22HM1A0518	Gunja Sirisha
96	22HM1A0520	Jampani Vanajadevi
97	22HM1A0521	Juvvenaboyina Ramakrishna
98	22HM1A0522	Kandula Dharani
99	22HM1A0523	Karrothu Chaitanya Kumar
100	22HM1A0524	Kesari Bhavani Prasada Reddy
101	22HM1A0525	Kolli Sivalakshmi
102	22HM1A0526	Lotla Uday Kumar
103	22HM1A0527	Majji Pavan Kumar
104	22HM1A0528	Markapuram Vishnu Vardhan Reddy
105	22HM1A0529	Meeniga Sirisha
106	22HM1A0531	Nidikonda Srinivasarao
107	22HM1A0532	Pannuru Pavan
108	22HM1A0534	Pothireddy Susanna
109	22HM1A0535	Pujari Somanath
110	22HM1A0536	Rakonda Lakshmi Venkata Alivelu
111	22HM1A0537	Rasipogula Swapna
112	22HM1A0538	Ravi Mani Deepthi
113	22HM1A0539	Rebba Surya
114	22HM1A0540	Sadhu Deepthi
115	22HM1A0541	Sake Sravanthi
116	22HM1A0542	Sali Karthik
117	22HM1A0544	Shaik Mohith
118	22HM1A0545	Shaik Mubashira
119	22HM1A0546	Shaik Sadhik
120	22HM1A0547	Shaik Siddhik
121	22HM1A0548	Tanamechinthala Dasu
122	22HM1A0549	Thota Venkata Sai Charan
123	22HM1A0550	Upputuri Vasu
124	22HM1A0551	Yadagiri Vasantha Laxmi
125	22HM1A0552	Yadlapalli Srinu
126	23HM5A0501	Alluri Sai Sree
127	23HM5A0504	Pulivarthi Raghuvardhan
128	23HM5A0505	Vankam Ganesh

129	21HM1A0501	Alukapenta Thimmagurudu Swamy
130	21HM1A0502	Arumalla Sandeep Kumar
131	21HM1A0504	Badisa Bhavya Sri
132	21HM1A0506	Battula Venkatesh
133	21HM1A0507	Beesabathina Saran Sai
134	21HM1A0509	Chedabavi Shravani
135	21HM1A0510	Chedipothula Kondalu
136	21HM1A0511	Chilakuri Ramya
137	21HM1A0512	Chinna Nagappa Gari Jyothi
138	21HM1A0513	Degala Gopinath
139	21HM1A0514	Devarapalli Sandeep Reddy
140	21HM1A0515	Devireddy Pujitha
141	21HM1A0516	Eppala Vishnu Vardhan Reddy
142	21HM1A0518	Gajula Naga Siva Kiran
143	21HM1A0519	Golla Sivakumar
144	21HM1A0520	Gottapu Sireesha
145	21HM1A0521	Harijana Madhurima
146	21HM1A0522	Jampala Mala Konda Rayudu
147	21HM1A0523	Jasty Manoj
148	21HM1A0524	Kamasani Bhaskar Rao
149	21HM1A0525	Kottapalli Kalyan
150	21HM1A0526	Kummitha Gopal Reddy
151	21HM1A0527	Kurakula Diwakar
152	21HM1A0528	Lakshmi Prasanna N
153	21HM1A0529	Lukalapu Adarsh
154	21HM1A0530	Madiga Saniya
155	21HM1A0531	Mukkella Anilkumar
156	21HM1A0532	Pallepogu Indu Priya
157	21HM1A0533	Pathala Kranthi Kumar
158	21HM1A0534	Pattipati Deekshitha
159	21HM1A0535	Penugonda Pavan
160	21HM1A0536	Pullaiahgari Aswilatha
161	21HM1A0537	Ravulapalli Shanthi Triveni
162	21HM1A0538	Sugali Poojitha Bai
163	21HM1A0539	Sunkara Gopi Ajay Kumar
164	21HM1A0540	Varikuntla Narendra
165	21HM1A0541	Yerrabhoomi Samrutha
166	21HM1A0542	Podaralla Saikumar Reddy

List of Faculty as Professional body members during the academic year: 2023-2024 (CAYm1)		
SL No	Name of the Faculty	Name of the professional society as member
1	Mr. Merugu Anand Kumar	IAENG and AMRCS
2	Dr. G. Samba Siva Rao	AMRCS
3	Dr. Inaganti Shylaja	AMRCS
4	Dr. Padigala Suresh	AMRCS
5	Dr. Godagala Madhava Rao	AMRCS
6	Nagam Aanjaneyulu	AMRCS
7	Arekatla Madhava Reddy	AMRCS
8	Arekatla Jaganmohan Reddy	AMRCS
9	Lankala Mounika	AMRCS
10	Vanapamula Veerabrahmachari	AMRCS
11	Motupalli Mallikarjuna Rao	AMRCS

12	Aremandla Sai Pujitha	AMRCS
13	Chevula Rekha	AMRCS
14	Shaik Guntur Mahabub Subhani	AMRCS
15	Butukuru Rojalakshmi	AMRCS
16	Gudipati Mohan Singh Yadav	AMRCS

List of Students as Professional body members during academic year: 2023-2024(CAY1) - Annexed Separately

List of Faculty as Professional body members during the academic year: 2022-2023 (CAYm2) - Annexed Separately

List of Students as Professional body members during academic year: 2022-2023 (CAYm2) - Annexed Separately

B. Number, quality of engineering events (organized at institute) (Level Institute / State / National/International) (2)

List of Technical / Engineering Events

Activities Summary for 3 – Assessment Years

Academic Year	No. of Events	No. of Participants	Remarks
2023-2024	14	565	Institute Level
2022-2023	15	710	Institute Level
2021-2022	15	750	Institute Level

Details of courses delivered by industrial experts during the academic year 2023-2024 (CAYm1)

S.No	Topic Name	Course	Date / Month / Year	Resource Person With Designation	No. of students attended
1	Advanced Computation and Graphics using C++	Guest Lecture	22-08-2023	Mr.M Kalyan Chakravarthy, Sr. Software enginer Adaps It Pvt.Lmt	46
2	Real Time Operating System	Workshop	11-09-2023 TO 12-09-2023	Dr.Ch.V.Phan Krishna,Prof,Tkr Eng college ,Hyderabad	46
3	Agile Excellence: Mastering Software Development with SCRUM	Guest Lecture	10-05-2023	Dr.Konda Srinivas, Prof ,CMRIT,Hyderabad	46
4	Advanced Computer Networks	Guest Lecture	08-07-2023	Mr.M Kalyan Chakravarthy, Sr. Software engineer Adaps It Pvt.Lmt	36
5	Greedy Algorithm	Guest Lecture	13-09-2023	Dr.V.Gowtham, Prof and Principal ,SMGOIH, Hyderabad	35
6	Data Mining Using Weka Tool	Workshop	05-10-2023 TO 06-10-2023	Dr.N .Tirumala Rao HOD,NEC ,Narasaraopet	35
7	Process Improvement Discipline	Guest Lecture	11-06-2023	Dr.K Thirupathi Rao Professor, GITAM Deemed University, Vizag	36
8	Training Program on Cloud Computing	Workshop	07-08-2023 TO 08-08-2023	Dr.K Kumaraswamy,Assoc Prof,CMRCET,	46
9	Unlocking the Semantic Web: An Introduction to Linked Data and SPARQL	Guest Lecture	15-09-2023	Dr.Y.Soumya,Assoc .Proff,CVR Engineering college ,Hyd	45
10	Securing the Airwaves: A Deep Dive into Wireless Protocols and Threats	Guest Lecture	31-10-2023	Dr.K Suresh, HOD , St Mary"s Engineering College Hyd	46
11	Mango DB	Workshop	26-02-2024 TO 27-01-2024	Mrs.P.Sirisha Reddy , Team Lead ,Infosys	47
12	Keras and Tensor flow for developing the Applications of Machine Learning	Workshop	02-02-2024 TO 03-02-2024	Dr.D Sasi Rajashekar,Dean,SMGOIH,	30
13	Context Free Grammar	Guest Lecture	03-04-2024	Dr.K Suresh, HOD , St Mary"s Engineering College Hyd	36
14	IDEA and BLOWFISHAlgorithms.	Guest Lecture	08-04-2024	Mr.M Kalyan Chakravarthy, Sr. Software enginer Adaps It Pvt.Lmt	35

Table : 4.6.1.3. Details of courses delivered by industrial experts during the academic year 2023-2024 (CAYm1)

Details of courses delivered by industrial experts during the academic year 2022-2023 (CAYm2)

S.No	Topic Name	Course	Date / Month / Year	Resource Person With Designation	No. of students attended
1	IDEA and BLOWFISH Algorithms.	Guest Lecture	20-07-2022	Mr.M Kalyan Chakravarthy, Sr. Software enginer Adaps It Pvt.Lmt	60
2	Design Patterns Demystified: Solving Real-World Problems with Reusable Solutions	Workshop	9-8-2022 TO 10-08-2022	Dr.Y.Soumya,Assoc .Proff,CVR Engineering college ,Hyd	60
3	Keras and Tensor flow for developing the Applications of Machine Learning	Guest Lecture	09-12-2022	Dr.K Suresh, HOD , St Mary"s Engineering College Hyd	55
4	Training Program on Cloud Computing	Workshop	04-10-2022 TO 05-10-2022	Dr.K Kumaraswamy,Assoc Prof,CMRCET,Hyd	57
5	Advanced Computer Networks	Guest Lecture	23-08-2022	Mr.M Kalyan Chakravarthy, Sr. Software enginer Adaps It Pvt.Lmt	47
6	Greedy Algorithm	Guest Lecture	09-06-2022	Dr.V.Gowtham, Prof and Principal ,SMGOIH	46

7	Data Mining Using Weka Tool	Workshop	7-10-2022 TO 08-10-2022	Dr.N .Tirumala Rao HOD,NEC ,Narasarao pet	47
8	Process Improvement Discipline	Guest Lecture	25-10-2022	Dr.K Thirupathi Rao Professor, GITAM Deemed University, Vizag	48
9	Advanced Computation and Graphics using C++	Guest Lecture	02-09-2022	Dr.P V S Srinivas, Prof and Principal,VBIT,Hyd	35
10	Real Time Operating System	Workshop	13-10-2022 TO 14-10-2022	Dr.Ch.V.Phan Krishna,Prof,Tkr Eng college ,HYD	34
11	Agile Excellence: Mastering Software Development with SCRUM	Guest Lecture	11-04-2022	Dr.Konda Srinivas, Prof ,CMRIT	35
12	GIT and Jenkin Tools.	Workshop	15-03-2023 TO16-03-2023	Mr.K.Ashok,Tech Lead,OSI Digital Pvt. Ltd	60
13	Keras and Tensor flow for developing the Applications of Machine Learning	Workshop	30-01-2023 TO 31-01-2023	Dr.D Sasi Rajashekar, Dean,SMGOIH,	45
14	Context Free Grammar	Guest Lecture	17-02-2023	Dr.K Suresh, HOD , St Mary"s Engineering College Hyd	46
15	Mongo DB	Workshop	03-02-2023 TO 04-02-2023	Mrs.P.Sirisha Reddy , Team Lead ,Infosys	35

Table : 4.6.1.4. Details of courses delivered by industrial experts during the academic year 2022-2023 (CAYm2)

Details of courses delivered by industrial experts during the academic year 2021-2022 (CAYm3)

S.No	Topic Name	Course	Date / Month / Year	Resource Person With Designation	No. of students attended
1	Cloud Computing	Training Program	12-07-2021 to 17-07-2021	Mr.M Kalyan Chakravarthy, Sr. Software engineer Adaps It Pvt.Lmt	45
2	Front End Development	Workshop	20-10-2021 To 22-10-2021	Dr.Y.Soumya,Assoc .Prof, CVR Engineering college ,Hyd	44
3	Context Free Grammar	Guest Lecture	30-10-2021	Dr.K Suresh, HOD , St Mary's Engineering College Hyd	55
4	Data Mining Using Weka Tool	Workshop	8-11-2021 to 10-11-2021	Dr.K Kumaraswamy, Assoc Prof,CMRCET,	56
5	Real Time Operating System	Guest Lecture	18-11-2021	Mr.M Kalyan Chakravarthy, Sr. Software engineer Adaps It Pvt.Lmt	53
6	Introduction to Databases and its Connectivity	Training Program	22-11-2021 To 27-11-2021	Dr.V.Gowtham, Prof and Principal ,SMGOIH	51
7	Introduction to Artificial Intelligence	Workshop	2-12-2021 To 4-12-2021	Dr.N .Tirumala Rao HOD,NEC ,Narasarao pet	56
8	Advanced Computation and Graphics using C++	Guest Lecture	17-12-2021	Dr.K Thirupathi Rao Assoc Prof, GITHAM	45
9	Mobile Security Threats	Guest Lecture	29-12-2021	Dr.P V S Srinivas, Prof and Principal,VBIT,Hyd	44
10	Python using Data Science	Training Program	1-2-2021 To 05-02-2022	Dr.Ch.V.Phan Krishna,Prof,Tkr Eng college ,HYD	45
11	Angular JS	Workshop	24-02-2022 To 26-02-2022	Dr.Konda Srinivas, Prof ,CMRIT	56
12	Machine Learning Algorithms	Guest Lecturer	03-04-2022	Dr.D Sasi Rajashekar,Dean,SMGOIH,	55
13	Regular and Context Free Languages	Guest Lecture	03-12-2022	Dr.K Suresh, HOD , St Mary"s Engineering College Hyd	56
14	Advanced Java Programming	Workshop	19-05-2022 To 21-05-2022	Mrs.P.Sirisha Reddy , Team Lead ,Infosys	45
15	Greedy Algorithm	Guest Lecture	05-06-2022	Dr.K Kumaraswamy, Assoc Prof,CMRCET,	44

Table : 4.6.1.5. Details of courses delivered by industrial experts during the academic year 2021-2022 (CAYm3)

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

Institute Marks : 5.00

4.6.2 Publication of technical magazines, newsletters, etc.

A. Quality & Relevance of the contents and Print Material (3)

B. Participation of Students from the program (2)

Department Publication:

The Department of Computer Science and Engineering has started a Technical magazine. This magazine was initiated in the year 2022 and has continuously emerged as a platform to represent departmental yearly contributions from students and faculty. The magazine consists of original technical articles, literary articles, and trending information and technologies. Which are selected by the editor, the magazine is published twice in an academic year. The magazine committee consists of an editor and chief editor, and the editorial board consists of four (4) members of the CSE department.

S.No	Name of the publication	Volume No. Month & Year	Frequency/ Year	Name of the Faculty Editor	Name of the Student Editors
1	Technical Magazine	Vol:1, Issue:1, Year-2023	Half-Yearly	Mr. V V B Chari	D Gopinath – IV Year D Pujitha – IV Year R Surya – III Year Alivelu -III Year
2	Technical Magazine	Vol:2, Issue:1, Year-2024	Half-Yearly	Mr. V V B Chari	D Gopinath – IV Year D Pujitha – IV Year R Surya – III Year Alivelu -III Year

Table 4.6.2.1: Volumes and students' members of department publication committee for magazine

Figure 4.6.2.1: Sample department magazine (Annexed Separately)

2. Newsletter:

The Department of Computer Science and Engineering has started a newsletter and Volume I was launched in the year 2022. It is published every quarter of an academic year. It focuses mainly on the major events organized for the year, student and faculty publications, achievements, campus placement, industrial interactions, visits, higher studies, extracurricular and co- curricular activities, and many more in the department for every semester. The department publication committee will manage the process for both the magazine and the newsletter.

S.No	Name of the publication	Volume No. Month & Year	Frequency/ Year	Name of the Faculty Editor	Name of the Student Editors
1	News letter	Vol: 2, Issue 1,Year 2023	Quarterly	Mr. V V B Chari	G Nagasiva Kiran – IV Year B Bhavaya Sri – IV Year Sk Mubashira – III year S Deepthi – III year
2	News letter	Vol: 2, Issue 2,Year 2023	Quarterly	Mr. V V B Chari	G Nagasiva Kiran – IV Year B Bhavaya Sri – IV Year Sk Mubashira – III year S Deepthi – III year
3	News letter	Vol: 2, Issue 3, Year 2024	Quarterly	Mr. V V B Chari	G Nagasiva Kiran – IV Year B Bhavaya Sri – IV Year Sk Mubashira – III year S Deepthi – III year
4	News letter	Vol: 2, Issue 4,Year 2024	Quarterly	Mr. V V B Chari	G Nagasiva Kiran – IV Year B Bhavaya Sri – IV Year Sk Mubashira – III year S Deepthi – III year

Table 4.6.2.2: Volumes and students' members of department publication committee for newsletter

Figure 4.6.2.2: Sample department newsletters (Annexed Separately)

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

Institute Marks : 10.00

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

A. Events within the state (2)

B. Events outside the state (3)

C. Prizes/awards received in such events (5)

Paper Presentation & Poster Presentation: Summary – Activities Attended for 3 Years

A.Y.	Total No. of events	Students Participation & Awards within the State				Students Participation & Awards outside the State			
		No. of events	No. of Students attended	No. of student's participations	No. of Awards	No. of events	No. of Students attended	No. of student's participations	No. of Awards
2023-24	8	4	28	4	4	22	8	8	4
2022-23	5	2	19	2	3	16	4	5	2
2021-22	3	2	26	2	1	14	6	3	2

Summary of Students participation within the state and outside the state during assessment period

Assessment Year	No. of Events	No. of Students Attended	No. of Participations	No. of Awards
2023-24	8	50	12	2023-24
2022-23	5	35	6	2022-23
2021-22	3	40	8	2021-22

Table 4.6.3.1.1 Summary of Students participation within the state and outside the state during assessment period

Summary of Students participation within the state (State level) during assessment period

Assessment Year	No. of Events	No. of Students Attended	No. of Participations	No. of Awards
2023-24	4	28	4	2023-24
2022-23	2	19	2	2022-23
2021-22	2	26	2	2021-22

Table 4.6.3.1.2 Summary of Students participation within the state (State Level) during assessment period

Summary of Students participation Outside the state (National level) during assessment period

Assessment Year	No. of Events	No. of Students Attended	No. of Participations	No. of Awards
2023-24	4	22	8	2023-24
2022-23	3	16	4	2022-23
2021-22	1	14	6	2021-22

Table 4.6.3.1.2 Summary of Students participation Outside the state (National level) during assessment period

Academic Year: 2023-2024 (CAYm1) Prize Winner

S. No	Name of the Students	Name of the Event	Topic	Venue	Date	Award/ Reward
1	ADDANKI AJAY	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023	Third
2	BOKKA VENKAT RAO	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023	Third
3	KUDUMULA SUMITHRA	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1, 2023	Second
4	VELPULA CHANDIRKA	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1, 2023	Second
5	DARNASI RAKSHITHA	Computational Intelligence & Data Engineering	Paper Presentation	Vidya Jyothi Institute of Technology (VJIT), Hyderabad, India	6–7 January 2023	Second
6	KAMBAM ASWINI	Computational Intelligence & Data Engineering	Paper Presentation	Vidya Jyothi Institute of Technology (VJIT), Hyderabad, India	6–7 January 2023	Second

7	BADISA BHAVYA SRI	YUKTI 2023	Poster Presentation	D-Block, MGIT Campus, Hyderabad	April 27–29, 2023	Second
8	CHILAKURI RAMYA	YUKTI 2023	Poster Presentation	D-Block, MGIT Campus, Hyderabad	April 27–29, 2023	Second
9	KUMMITHA GOPAL REDDY	Annual Technical Fest Poster Competition	Poster Presentation	Maturi Institute of Technology, Hyderabad	May 2023	Third
10	GAJULA NAGA SIVA KIRAN	Annual Technical Fest Poster Competition	Poster Presentation	Maturi Institute of Technology, Hyderabad	May 2023	Third
11	MUKKELLA ANILKUMAR	Machine Learning for Signal Processing, Communications & Control Systems:	Paper Presentation	Geethanjali College of Engineering and Technology, Hyderabad	December 15–16, 2023	Third
12	PATTIPATI DEEKSHITHA	Machine Learning for Signal Processing, Communications & Control Systems:	Paper Presentation	Geethanjali College of Engineering and Technology, Hyderabad	December 15–16, 2023	Third

Table 4.6.3.2: List of student won awards at inter-institute event in the academic year 2023-2024.

Academic Year: 2022-2023 (CAYm2) Prize Winner

S. No	Name of the Students	Name of the Event	Topic	Venue	Date	Award/ Reward
1	BEDADHALA NAVYA SREE	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS), Ongole, Andhra Pradesh	May 20	Second
2	BUDDI DIVYASREE	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS), Ongole, Andhra Pradesh	May 20	Second
3	GUVALA ASWINI	Paper Presentation on Big Data Analytics and Cloud Computing	Paper Presentation	Keshav Memorial Institute of Technology, Hyderabad	October 2022	Third
4	REBBA GOPI	Paper Presentation on Big Data Analytics and Cloud Computing	Paper Presentation	Keshav Memorial Institute of Technology, Hyderabad	October 2022	Third
5	SHYAMALA KAVYA	IoT and Smart Applications Poster Contest	Poster Presentation	Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad	August 2022	Second
6	VALLEPU MAHALAKSHMI	IoT and Smart Applications Poster Contest	Poster Presentation	Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad	August 2022	Second

Table 4.6.3.3: List of student won awards at inter-institute event in the academic year 2022-2023

Academic Year: 2021-2022 (CAYm3) Prize Winner

S. No	Name of the Students	Name of the Event	Topic	Venue	Date	Award/ Reward
1	YERREDDULA HARI PRIYA REDDY	ICCID-2021	Paper Presentation	VIT-AP University	13–14 August 2021	Third
2	KAPU GEETHA	ICCID-2021	Paper Presentation	VIT-AP University	13–14 August 2021	Third
3	ATLURI KAVITHA	Poster Presentation on AI & Robotics	Poster Presentation	Mahatma Gandhi Institute of Technology (MGIT), Hyderabad	March 2021	second
4	BASI.SWATHI	Poster Presentation on AI & Robotics	Poster Presentation	Mahatma Gandhi Institute of Technology (MGIT), Hyderabad	March 2021	second
5	DORAGARI SRIVAMS	Cybersecurity Poster Presentation	Poster Presentation	VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad	June 2021	second
6	PATIL SHIVA PRASAD	Cybersecurity Poster Presentation	Poster Presentation	VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad	June 2021	second
7	MALLALA REVATHI	Paper Presentation on Cloud Security and Data Privacy	Paper Presentation	Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad	October 2021	second
8	POSA PAVITHRA	Paper Presentation on Cloud Security and Data Privacy	Paper Presentation	Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad	October 2021	second

Table 4.6.3.4: List of student won awards at inter-institute event in the academic year 2021-2022

Academic Year: 2023-2024 (CAYm1) Participation

S. No	Name of the Students	Name of the Event	Topic	Venue	Date
1	Addanki Ajay	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023
2	BOKKA VENKAT RAO	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023
3	Darnasi Rakshitha	Computational Intelligence & Data Engineering	Paper Presentation	Vidya Jyothi Institute of Technology (VJIT), Hyderabad, India	6–7 January 2023
4	Kambam Aswini	Computational Intelligence & Data Engineering	Paper Presentation	Vidya Jyothi Institute of Technology (VJIT), Hyderabad, India	6–7 January 2023
5	KUDUMULA SUMITHRA	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1, 2023
6	VELPULA CHANDIRKA	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1, 2023
7	Badisa Bhavya Sri	YUKTI 2023	Poster Presentation	D-Block, MGIT Campus, Hyderabad	April 27–29, 2023
8	Chilakuri Ramya	YUKTI 2023	Poster Presentation	D-Block, MGIT Campus, Hyderabad	April 27–29, 2023
9	KUMMITHA GOPAL REDDY	Annual Technical Fest Poster Competition	Poster Presentation	Maturi Institute of Technology, Hyderabad	May 2023
10	Gajula Naga Siva Kiran	Annual Technical Fest Poster Competition	Poster Presentation	Maturi Institute of Technology, Hyderabad	May 2023
11	Mukkella Anilkumar	Machine Learning for Signal Processing, Communications & Control Systems	Paper Presentation	Geethanjali College of Engineering and Technology, Hyderabad	December 15–16, 2023
12	Pattipati Deckshitha	Machine Learning for Signal Processing, Communications & Control Systems	Paper Presentation	Geethanjali College of Engineering and Technology, Hyderabad	December 15–16, 2023
13	Bejjipalli Jeevamani	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023
14	Boya Vishnuvardhan	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023
15	Duggimi Sai Kumar	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023
16	Ediga Vamsi Goud	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023
17	Kavali Narendra	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023
18	Malyam Akhilamma	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023
19	Manda Ajay	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023
20	Mannuva Mallikharjuna	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023

21	Manda Ajay	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023
22	Pathipati Mahesh	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023
23	Puli Pushpalatha	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023
24	Rachagorla Jankiram	Emerging Technologies in Engineering and Science	Paper Presentation	DVR & Dr. HS MIC College of Technology, Kanchikacherla, Andhra Pradesh	11–12 August 2023
25	Rapthadu Sreenath	Annual Technical Fest Poster Competition	Paper Presentation	Maturi Institute of Technology	May 2023
26	Shaik Roshini	Annual Technical Fest Poster Competition	Paper Presentation	Maturi Institute of Technology	May 2023
27	Shyamala Kavva	Computational Intelligence & Data Engineering	Paper Presentation	Vidya Jyothi Institute of Technology (VJIT)	6–7 January 2023
28	Talari Mahesh	Computational Intelligence & Data Engineering	Paper Presentation	Vidya Jyothi Institute of Technology (VJIT)	6–7 January 2023
29	Tammu Chandu	Computational Intelligence & Data Engineering	Paper Presentation	Vidya Jyothi Institute of Technology (VJIT), Hyderabad, India	6–7 January 2023
30	Yatham Mutyalu	Computational Intelligence & Data Engineering	Paper Presentation	Vidya Jyothi Institute of Technology (VJIT), Hyderabad, India	6–7 January 2023
31	Yerikala Ashok	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1
32	Kosuri Lakshmana Rao	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1
33	Alukapenta Thimmagurudu Swamy	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1
34	Arumalla Sandeep Kumar	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1
35	Beesabathina Saran Sai	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1
36	Chedabavi Shrivani	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1
37	Chedipothula Kondalu	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1
38	Golla Sivakumar	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1
39	Gottapu Sireesha	Machine Learning for Signal Processing	Paper Presentation	Geethanjali College of Engineering and Technology	December 15–16
40	Harijana Madhurima	Machine Learning for Signal Processing	Paper Presentation	Geethanjali College of Engineering and Technology	December 15–16
41	Jasty Manoj	Machine Learning for Signal Processing	Paper Presentation	Geethanjali College of Engineering and Technology	December 15–16
42	Kamasani Bhaskar Rao	Machine Learning for Signal Processing	Paper Presentation	Geethanjali College of Engineering and Technology	December 15–16
43	Kottapalli Kalyan	YUKTI 2023	Paper Presentation	D-Block, MGIT Campus, Hyderabad	April 27–29
44	Sugali Poojitha Bai	YUKTI 2023	Paper Presentation	D-Block, MGIT Campus, Hyderabad	April 27–29
45	Sunkara Gopi Ajay Kumar	YUKTI 2023	Paper Presentation	D-Block, MGIT Campus, Hyderabad	April 27–29
46	Yerrabhooni Samrutha	YUKTI 2023	Paper Presentation	D-Block, MGIT Campus, Hyderabad	April 27–29
47	Podaralla Saikumar Reddy	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1, 2023
48	Marem Vijay Kumar	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1, 2023

49	Shaik Shabana	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1
50	Degala Gopinath	EVINCE 2k23	Poster Presentation	Sri Krishnadevaraya Univ. College of Engineering & Technology, Anantapur	March 31 – April 1

Table 4.6.3.5: List of student participated at inter-institute event in the academic year 2023-2024.

Academic Year: 2022-2023 (CAYM2) Participation

S. No	Name of the Students	Name of the Event	Topic	Venue	Date
1	Bedadhala Navya Sree	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
2	Buddi Divyasree	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
3	Guvvala Aswini	Paper Presentation on Big Data Analytics and Cloud Computing	Paper Presentation	Keshav Memorial Institute of Technology, Hyderabad	October 2022
4	Rebba Gopi	Paper Presentation on Big Data Analytics and Cloud Computing	Paper Presentation	Keshav Memorial Institute of Technology, Hyderabad	October 2022
5	Shyamala Kavya	IoT and Smart Applications Poster Contest	Poster Presentation	Chaitanya Bharathi Institute of Technology (CBIT)	August 2022
6	Vallepu Mahalakshmi	IoT and Smart Applications Poster Contest	Poster Presentation	Chaitanya Bharathi Institute of Technology (CBIT)	August 2022
7	Bathula Suryanarayana	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
8	Birudoor Kishore	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
9	Kaipu Venkata Naga Bharathi	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
10	Kamarathi Mounika	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
11	Mora Sai Meghana	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
12	Mukthapuram Sangeetha	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
13	Sakam Ahalya	Paper Presentation on Big Data Analytics and Cloud Computing	Paper Presentation	Keshav Memorial Institute of Technology,HYDERABAD	October 2022
14	Sake Akhila	Paper Presentation on Big Data Analytics and Cloud Computing	Paper Presentation	Keshav Memorial Institute of Technology,HYDERABAD.	October 2022
15	Samrasu Ramadevi	Paper Presentation on Big Data Analytics and Cloud Computing	Paper Presentation	Keshav Memorial Institute of Technology,HYDERABAD.	October 2022
16	Shaik Gowsya	Paper Presentation on Big Data Analytics and Cloud Computing	Paper Presentation	Keshav Memorial Institute of Technology,HYDERABAD.	October 2022
17	Tadimalla Venkata Rao	Paper Presentation on Big Data Analytics and Cloud Computing	Paper Presentation	Keshav Memorial Institute of Technology,HYDERABAD.	October 2022
18	Talatala Geetha Sravanthi	Paper Presentation on Big Data Analytics and Cloud Computing	Paper Presentation	Keshav Memorial Institute of Technology,HYDERABAD.	October 2022
19	Tippireddy Geetha Ramya	IoT and Smart Applications Poster Contest	Poster Presentation	Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad	August 2022
20	Tadimalla Venkata Rao	IoT and Smart Applications Poster Contest	Poster Presentation	Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad	August 2022

21	Maddimineni Pramod Kumar	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
22	Mekala Prasanth	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
23	Rayampalli Chaitanya	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole,	May 20
24	Koneti Triveni	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole,	May 20
25	Koppula Jeevan Kishore	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole,	May 20
26	Vennapusa Lokeswar Reddy	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
27	Yakkanti Sai Teja	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
28	Yarra Nagapa Gari Girish	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
29	Rachagorla Jankiram	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
30	Rapthadu Sreenath	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole.	May 20
31	Sake Vinod	SRUJANA 2K22	Poster Presentation	PACE Institute of Technology & Sciences (PITS),ongole	May 20
32	Rachagorla Jankiram	IoT and Smart Applications Poster Contest	Poster Presentation	Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad	August 2022
33	Nallagangula Saran Venkata Achi Reddy	IoT and Smart Applications Poster Contest	Poster Presentation	Chaitanya Bharathi Institute of Technology (CBIT),Hyderabad.	August 2022
34	Nunsavathu Tirumala Bai	IoT and Smart Applications Poster Contest	Poster Presentation	Chaitanya Bharathi Institute of Technology August 2022 (CBIT),Hyderabad.	August 2022
35	Chiruguri Akhil	IoT and Smart Applications Poster Contest	Poster Presentation	Chaitanya Bharathi Institute of Technology (CBIT),Hyderabad.	August 2022

Table 4.6.3.6: List of student participated at inter-institute event in the academic year 2022-2023.

Academic Year: 2021-2022 (CAYm3) Participation

S. No	Name of the Students	Name of the Event	Topic	Venue	Date
1	Atluri Kavitha	Poster Presentation on AI & Robotics	Poster Presentation	Mahatma Gandhi Institute of Technology (MGIT), Hyderabad	March 2021
2	Basi.Swathi	Poster Presentation on AI & Robotics	Poster Presentation	Mahatma Gandhi Institute of Technology (MGIT), Hyderabad	March 2021
3	Doragari Srivamsi	Cybersecurity Poster Presentation	Poster Presentation	VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad	June 2021
4	Patil Shiva Prasad	Cybersecurity Poster Presentation	Poster Presentation	VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad	June 2021
5	Yerreddu Lahari Priya Reddy	ICCIDE-2021	Paper Presentation	VIT-AP University	13-14 August 2021
6	Kapu Geetha	ICCIDE-2021	Paper Presentation	VIT-AP University	13-14 August 2021
7	Mallala Revathi	Paper Presentation on Cloud Security and Data Privacy	Paper Presentation	Goka raju Rangaraju Institute of Engineering and Technology, Hyderabad	October 2021
8	Posa Pavithra	Paper Presentation on Cloud Security and Data Privacy	Paper Presentation	Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad	October 2021
9	Bileppagari Kurba Sai Keerthana	ICCIDE-2021	Paper Presentation	VIT-AP University	13-14 August 2021
10	Chepuri Ramya	ICCIDE-2021	Paper Presentation	VIT-AP University	13-14 August 2021
11	Chinnapareddy Mounika	ICCIDE-2021	Paper Presentation	VIT-AP University	13-14 August 2021
12	Dudekal Rafi	ICCIDE-2021	Paper Presentation	VIT-AP University	13-14 August 2021
13	Golla Narmada	ICCIDE-2021	Paper Presentation	VIT-AP University	13-14 August 2021

14	H Vannuraswamy	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
15	Kogara Prasad	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
16	Konka Mamatha	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
17	Madiga Kavya	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
18	Mallappa Gari Narasimhappa	Poster Presentation on AI & Robotics	Poster Presentation	Mahatma Gandhi Institute of Technology (MGIT), Hyderabad	March 2021
19	Naupada Ganesh	Poster Presentation on AI & Robotics	Poster Presentation	Mahatma Gandhi Institute of Technology (MGIT), Hyderabad	March 2021
20	Paladugu Neelavathi	Cybersecurity Poster Presentation	Poster Presentation	VNR Vignana Jyothi Institute of Engineering & Technology	June 2021
21	Ragulapadu Sai Roopa	Cybersecurity Poster Presentation	Poster Presentation	VNR Vignana Jyothi Institute of Engineering & Technology	June 2021
22	Ratara Vikas	Cybersecurity Poster Presentation	Poster Presentation	VNR Vignana Jyothi Institute of Engineering & Technology	June 2021
23	Surepalli Hymavathi	Cybersecurity Poster Presentation	Poster Presentation	VNR Vignana Jyothi Institute of Engineering & Technology	June 2021
24	Tadimarri Kiran Kumar	Paper Presentation on Cloud Security and Data Privacy	Paper Presentation	Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad	October 2021
25	Vudumula Shanmukha Naidu	Paper Presentation on Cloud Security and Data Privacy	Paper Presentation	Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad	October 2021
26	Cherreddy Danalakshmi	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
27	Ganipineni Sushma Chowdary	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
28	Golla Sirisha	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
29	Gurram Lokesh	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
30	Guvvala Aswini	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
31	Indla Mariya Raju	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
32	Kavali Bharath Kumar	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
33	Kota Surendra	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
34	Lanjepalli Naresh	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
35	Madaraju Prema Kumari	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
36	Modi Namratha	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
37	Mora Sai Meghana	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
38	Palam Dinesh Reddy	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
39	Palam Rajashekhar Reddy	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021
40	Pallapati Chennakesava	ICCIDE-2021	Paper Presentation	VIT-AP University	13–14 August 2021

Table 4.6.3.7: List of student participated at inter-institute event in the academic year 2021-2022

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

Total Marks 190.31

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	Associatio Type
Nagam Aanjaneyulu	AJXPN8330N	M.E/M.Tech	01/10/2009	CSE	29	0	0	Associate Professor	01/10/2018	06/07/2011	Regular
Arekatla Madhava Reddy	AUJPA4187D	M.E/M.Tech	01/09/2017	CSE	27	0	0	Assistant Professor		01/09/2017	Regular
Arekatla Jaganmohan Reddy	ASLPA2769F	M.E/M.Tech	01/12/2014	CSE	11	0	0	Associate Professor	01/12/2022	06/07/2017	Regular
Gudipati Mohan Singh Yadav	BROPG6896A	M.E/M.Tech	01/02/2019	CSE	9	0	0	Assistant Professor		05/08/2019	Regular
Lankala Mounika	ANUPL7023K	M.E/M.Tech	01/09/2017	CSE	32	0	0	Associate Professor	01/02/2024	01/11/2019	Regular
Vanapamula Veerabrahmachari	APQPV2716R	M.E/M.Tech	01/01/2015	CSE	27	0	0	Associate Professor	02/01/2023	18/08/2020	Regular
Motupalli Mallikarjuna Rao	CUBPM6638R	M.E/M.Tech	01/12/2015	CSE	1	0	0	Associate Professor	02/12/2024	11/06/2021	Regular
Dr. G. Samba Siva Rao	AGVPG0571D	ME/M. Tech and PhD	02/04/2007	CSE	22	3	1	Professor	13/07/2021	13/07/2021	Regular
Aremandla Sai Pujitha	AXJPA5342B	M.E/M.Tech	01/03/2018	CSE	15	0	0	Assistant Professor		22/11/2021	Regular
Shaik Guntur Mahabub Subhani	DWMP2298D	M.E/M.Tech	02/12/2013	CSE	22	0	0	Associate Professor	11/07/2022	11/07/2022	Regular
Chevula Rekha	ANJPC7048Q	M.E/M.Tech	01/06/2017	CSE	23	0	0	Assistant Professor		11/07/2022	Regular
Dr. Merugu Anand Kumar	BGIPM7787F	ME/M. Tech and PhD	10/03/2025	CSE	24	0	0	Associate Professor	01/02/2023	01/08/2022	Regular
Dr. Godagala Madhava Rao	AFOPG3428F	ME/M. Tech and PhD	01/07/2004	CSE	8	0	0	Professor	01/06/2022	01/06/2022	Regular
Dr. Inaganti Shylaja	AAUPI0225K	ME/M. Tech and PhD	01/03/2012	CSE	10	0	0	Professor	01/06/2022	01/06/2022	Regular
Dr. Padigala Suresh	CFRPP2576Q	ME/M. Tech and PhD	02/07/2018	CSE	10	0	0	Professor	01/07/2024	01/06/2022	Regular
Butukuru Rojalakshmi	DLIPB9994N	M.E/M.Tech	01/03/2023	CSE	17	0	0	Assistant Professor		04/07/2023	Regular

5.1 Student-Faculty Ratio (20)

Total Marks 20.00

Institute Marks : 20.00

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UG

No. of UG Programs in the Department 1

Computer Science and Engineering						
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	90	0	60	4	60	2
3rd Year	60	4	60	2	60	2
4th Year	60	2	60	2	120	0
Sub-Total	210	6	180	8	240	4
Total	216		188		244	
Grand Total	216		188		244	

PG

No. of PG Programs in the Department 0

Grand Total			
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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)	<div>216</div>	Sum total of all (UG+PG) students	<div>188</div>	Sum total of all (UG+PG) students	<div>244</div>	Sum total of all (UG+PG) students
No. of Faculty in the Department(F)	<div>16</div>	F1	<div>16</div>	F2	<div>15</div>	F3
Student Faculty Ratio(SFR)	<div>13.50</div>	SFR1=S1/F1	<div>11.75</div>	SFR2=S2/F2	<div>16.27</div>	SFR3=S3/F3
Average SFR	<div>13.84</div>	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)	16	0
CAYm1(2023-24)	16	0
CAYm2(2022-23)	15	0

Average SFR for three assessment years : 13.84

Assessment SFR : 20

5.2 Faculty Cadre Proportion (25)

Total Marks 25.00
Institute Marks : 25.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2024-25)	1.00	4.00	2.00	0.00	7.00	12.00
CAYm1(2023-24)	1.00	3.00	2.00	1.00	6.00	12.00
CAYm2(2022-23)	1.00	3.00	2.00	1.00	8.00	11.00
Average Numbers	1.00	3.33	2.00	0.67	7.00	11.67

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 : 25.00

5.3 Faculty Qualification (25)

Total Marks 21.31
Institute Marks : 21.31

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F]]
2024-25(CAY)	4	12	10.00	22.00
2023-24(CAYm1)	4	12	9.00	24.44
2022-23(CAYm2)	4	11	12.00	17.50

Average Assessment : 21.31

5.4 Faculty Retention (25)

Total Marks 25.00
Institute Marks : 25.00

Description	2023-24	2024-25
No of Faculty Retained	15	15
Total No of Faculty	12	12
% of Faculty Retained	125	125

Average : 125.00

Assessment Marks : 25.00

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

Total Marks 20.00

5.5. Innovations by the Faculty in Teaching and Learning

Summary of Innovative Teaching learning brought in by the Faculty for Academic Year: 2023-24 (CAYm1)

S.No	Faculty Name	Class - Year	Course	Topics	Methodology/AID
1	Mr.SK. Mahabub Subhani	II-I	Java Programming	ODBC, JDBC Connectivity	Flipped Classroom
2	Mrs.B. RojaLkshmi	II-II	Software Engineering	Agile Process Model	Audio Video Lecture
3	Mr. V.V. B Chari	III-II	Cryptography and Network Security	Expert system and applications	Learning by doing
4	Dr. P.Suresh	III-I	Compiler Design	Methodologies for Parsing Techniques	Audio Video Lecture
5	Mr. M.Anand Kumar	III-I	Software Project Management	Data Integrity, Digital Signature Schemes & Key Management Message Integrity	Brain Storming

Table 5.5.1: Summary of Innovative Teaching learning brought in by the Faculty for Academic Year: 2023-24 (CAYm1)

Summary of Innovative Teaching learning brought in by the Faculty for Academic Year: 2022-23 (CAYm2)

S.No	Faculty Name	Class - Year	Course	Topics	Methodology/AID
1	Mr. M.Anand Kumar	IV-I	Ethical Hacking	Vulnerability Analysis	Learning by doing
2	Mr. N.Anjeneyulu	IV-I	Cloud Computing	Resource Scheduling	Mind Mapping
3	Dr. G. Madhava Rao	III-I	Design And Analysis Of Algorithms	Dynamic Programming	Learning by doing
4	Mr. A. Madhava Reddy	III-I	Software Project Management	Risk Management	Role Play
5	Dr. I. Shylaja	III-II	Machine Learning	Supervised Learning	Brain Storming

Table 5.5.2: Summary of Innovative Teaching learning brought in by the Faculty for Academic Year: 2022-23 (CAYm2)

Summary of Innovative Teaching learning brought in by the Faculty for Academic Year: 2021-22 (CAYm3)

S.No	Faculty Name	Class - Year	Course	topics	Methodology/AI D
1	Dr. G.Sambasiva Rao	II-I	OOPS THROUGH C++	Inheritance	Role Play
2	Mr. M. Mallikarjuna Rao	III-I	Data Warehousing and Data Mining	Association Rule Mining	Mind Mapping
3	Mr.A.Jagan Mohan Reddy	IV-I	Unified Modeling Language	Public Key Cryptography (RSA)	Learning by doing
4	Dr. P. Suresh	II-II	Formal Languages And Automata Theory	Deterministic Finite Automata (DFA)	Audio Video Lecture
5	Mr. A. Madhava Reddy	III-II	Compiler Design	Lexical Analysis	Mind Mapping

Table 5.5.3: Summary of Innovative Teaching learning brought in by the Faculty for Academic Year: 2021-22 (CAYm3)

Pedagogical initiatives

The faculty members of the department adopted the following innovative teaching and learning methodologies to create the best learning environment for the students:

Sl. No	ITEM	DESCRIPTION
1	Role Play	The students are formed into groups of 3-5 members, and roles are assigned.
2	Brain Storming	The objective and outcomes of the project or problem are explained clearly.
3	Group problem-solving (Mind Mapping)	The students are monitored during the activity.
4	Debate	The students should support this team with valid points are monitored during the activity.
5	Modern Tools Usage (ICT)	LCD Projectors, Speakers, Systems with Keyboard and mouse, power point presentation, Laser Pointer, Slide changer, writing pads, Wi-Fi enabled classrooms and other student learning environments.
6	Innovative Learning practices	Various cutting-edge techniques, such as activity-based learning and project-based learning, were discussed throughout the lecture sessions. IoT role playing and brainstorming Assignments, Application Development, Poster Presentation, Mooc Course, Presentation, Poster Design, Partial Delivery, and Mini Project Review , Group Seminar, Collaborative Learning
7	Quality course materials	The digital library has expert video subject lectures given by a variety of notable resource people, which makes it easier for professors and students to use NPTELs E-Tutorials, MOOCs, and other online resources.
8	Industry Visits	Industry Visits will be organized once in a semester for delivering the practical exposure to the students
9	Online platform	Faculty members use Google Drive, Google class rooms, Google forms and other platforms

10	Open/Industry Courses/Skill/Enhancement Courses	These activity are provided by the department for a set time during the academic year. Here, the students proficiency with tools and software used in industry was improved.
11	Internship	Internship will be conducted during the semester end before the start of next semester .student will be trained on the industry-oriented skills some of the students will be sent to the industry/company/organization for conduction the internships

A. Availability of work in Institute website (4)

Sample Innovations of the faculty available in website

Link : <https://www.youtube.com/watch?v=c7N21WEAXUQ&t=129s> (<https://www.youtube.com/watch?v=c7N21WEAXUQ&t=129s>)

Figure: 5.5.1. Faculty Innovations in Institutes' Departmental Webpage (Annexed Separately)

B. Availability of peer reviews and critiques (4)

Link: <https://www.youtube.com/watch?v=DXr2CB1-sew> (<https://www.youtube.com/watch?v=DXr2CB1-sew>)

Figure 5.5.2: Faculty Innovations Peer Reviews (Annexed Separately)

C. The work must be reproducible and developed further by other scholars (2)

Figure 5.5.3: Faculty Innovations reproducible and developed further by other scholars (Annexed Separately)

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. G. Samba Siva Rao	5.00	5.00	5.00
Dr. Inaganti Shylaja	5.00	5.00	0.00
Dr. Padigala Suresh	5.00	5.00	0.00
Dr. Godagala Madhava Rao	5.00	5.00	0.00
Dr. Merugu Anand Kumar	5.00	5.00	0.00
Nagam Anjaneyulu	5.00	5.00	5.00
Arekatla Madhava Reddy	5.00	5.00	5.00
Arekatla Jaganmohan Reddy	5.00	5.00	5.00
Lankala Mounika	5.00	5.00	5.00
Vanapamula Veerabrahmachari	5.00	5.00	5.00
Motupalli Mallikarjuna Rao	5.00	5.00	5.00
Aremandla Sai Pujitha	5.00	5.00	5.00
Chevula Rekha	5.00	5.00	0.00
Shaik Guntur Mahabub Subhani	5.00	5.00	0.00
Butukuru Rojalakshmi	5.00	0.00	0.00
Gudipati Mohan Singh Yadav	5.00	5.00	5.00
Dr. K.N.V.R. Kumar	0.00	0.00	5.00
Dr. S K Moulali	0.00	0.00	5.00
Dr.K Venkataramana	0.00	0.00	5.00
Dr .Y Ravi Kumar	0.00	0.00	5.00
Kamjula Ramalinga Reddy	0.00	0.00	5.00
Sum	80.00	75.00	70.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratios per 5.1	10.80	9.40	12.20
Assessment [3*(Sum / 0.5RF)]	44.44	47.87	34.43

Average assessment over 3 years: 42.25

5.7 Research and Development (30)

Total Marks 24.00

5.7. Research and Development

5.7.1. Academic Research

A. Number of quality publications in refereed/SCI Journals (6)

Academic Year	CAY (2024-2025)	CAYm1(2023-2024)	CAYm2(2022-2023)	CAYm3(2021-2022)
No. of Publications (Scopus)	24	16	12	8
Referred Journals	64	64	56	48
Total	88	80	68	56

Table 5.7.1.1: Summary of faculty publications in assessment period

Assessment Year	No. of Publications	No. of Scopus / SCI	No. of UGC Care / AICTE Approved
2024-2025	88	24	64
2023-2024	80	16	64
2022-2023	68	12	56
2021-2022	56	8	48
Total	292	60	232

Table 5.7.1.2 Details of Faculty Research Publications during assessment period

Faculty Publications:

S No.	Name of the Faculty	CAY (2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)	CAYm3 (2021-22)
1	Dr. G. Samba Siva Rao	3	3	3	5
2	Nagam Aanjaneyulu	7	7	6	9
3	Arekatla Madhava Reddy	8	7	7	5
4	Arekatla Jaganmohan Reddy	3	4	2	2
5	Lankala Mounika	7	9	7	9
6	Vanapamula Veerabrahmachari	8	7	7	5
7	Motupalli Mallikarjuna Rao	-	-	-	1
8	Aremandla Sai Pujitha	4	3	3	5
9	Gudipati Mohan Singh Yadav	2	3	2	2
10	Dr. Inaganti Shylaja	4	3	3	-
11	Dr. Padigala Suresh	4	3	3	-
12	Dr. Godagala Madhava Rao	3	3	2	-
13	Dr. M. Anand Kumar	9	7	8	-
14	Chevula Rekha	9	7	7	-
15	Shaik Guntur Mahabub Subhani	7	7	8	-
16	Butukuru Rojalakshmi	10	7	-	-
17	Dr. K.N.V.R. Kumar	-	-	-	3
18	Dr. S K Moulali	-	-	-	2
19	Dr.K Venkataramana	-	-	-	2
20	Dr .Y Ravi Kumar	-	-	-	2
21	Kanjula Ramalinga Reddy	-	-	-	4

Table 5.7.1.3: Faculty publications during assessment period (academic year – wise)

Academic Year 2024-25 (CAY)

S.No	Name of the Faculty	Title	Name of the Journal / Conference/ Event/ Publisher	Year	Vol/ Issue	ISSN No.
1	Arekatla Jaganmohan Reddy	Trust But Verify: A Framework For The Trustworthiness Of Distributed Systems	Reinforced Plastics	2024	2024/2	0034-3617
2		DEA-RNN: A Hybrid Deep Learning Approach For Cyberbullying Detection In Twitter Social Media Platform	IJAIEM	2024	13/1	2319-4847
3		Enhancing Cooperation In MANET Using The Backbone Group Model (An Application Of Maximum Coverage Problem)	ISJCRESM	2024	9/1	2456-1134

4	Arekatla Madhava Reddy	Evaluation Of Features On Sentimental Analysis	ISJCRESM	2026	9/4	2456-1136
5		Adaptive Hierarchical Cyber Attack Detection And Localization In Active Distribution	Reinforced Plastics	2024	2024/1	0034-3617
6		Cuckoo Search Based Optimal Mask Generation For Noise Suppression And Enhancement Of Speech Signal	IJAIEM	2024	13/1	2319-4847
7		Dark-TRACER: Early Detection Framework For Malware Activity Based On Anomalous Spatiotemporal Patterns	IJAIEM	2024	13/1	2319-4847
8		DEA-RNN: A Hybrid Deep Learning Approach For Cyberbullying Detection In Twitter Social Media Platform	IJAIEM	2024	13/1	2319-4847
9		Design Of Wireless Electronic Scale Based On MSP430 Microprocessor	IJAIEM	2024	13/2	2319-4847
10		Distilling Structure In Taverma Scientific Workflows: A Refactoring Approach	ISJCRESM	2024	9/1	2456-1134
11		Framework And Architecture For Programming Education Environment As A Cloud Computing Service	IJAEP	2024	13/2	2322-3537
12	Aremandla Sai Pujitha	A Comprehensive Survey On Computer Forensics: State-Of-The-Art Tools Techniques Challenges And Future Directions	Reinforced Plastics	2024	2024/6	0034-3617
13		Toward Data Justice Understanding Police Shooting Data Systems And Narratives	Reinforced Plastics	2024	2024/3	0034-3617
14		Deep Network Optimization Utilizing Adaptive Rates	IJAIEM	2024	13/2	2319-4847
15		Efficient Context Modelling Using OWL In Mobile Cloud Computing	ISJCRESM	2024	9/1	2456-1134
16	Butukuru Rojalakshmi	Finding Number Of Clusters Before Finding Cluster	IJAEP	2024	13/1	2322-3537
17		Trustworthiness Assessment Of Users In Social Reviewing Systems	Reinforced Plastics	2024	2024/4	0034-3617
18		Data Poisoning Attacks On Federated Machine Learning	Reinforced Plastics	2024	2024/5	0034-3617
19		A Comprehensive Survey On Computer Forensics: State-Of-The-Art Tools Techniques Challenges And Future Directions	Reinforced Plastics	2024	2024/6	0034-3617
20		Cuckoo Search Based Optimal Mask Generation For Noise Suppression And Enhancement Of Speech Signal	IJAIEM	2024	13/1	2319-4847
21		Enhancing Cooperation In MANET Using The Backbone Group Model (An Application Of Maximum Coverage Problem)	ISJCRESM	2024	9/1	2456-1134
22		Evaluation Of Features On Sentimental Analysis	ISJCRESM	2025	9/3	2456-1135
23		Formalization Of Learning Objects For Image-Based Language Learning In Mobile Environments	IJAEP	2024	13/1	2322-3537
24		Framework And Architecture For Programming Education Environment As A Cloud Computing Service	IJAEP	2024	13/2	2322-3537
25		Deep Network Optimization Utilizing Adaptive Rates	IJAIEM	2024	13/2	2319-4847
26	Chevula Rekha	A Comprehensive Survey On Computer Forensics: State-Of-The-Art Tools Techniques Challenges And Future Directions	Reinforced Plastics	2024	2024/6	0034-3617
27		Fast And Accurate Algorithm For Core Point Detection In Fingerprint Images	IJAEP	2024	13/1	2322-3537
28		Trust But Verify: A Framework For The Trustworthiness Of Distributed Systems	Reinforced Plastics	2024	2024/2	0034-3617
29		Data Poisoning Attacks On Federated Machine Learning	Reinforced Plastics	2024	2024/5	0034-3617
30		Dark-TRACER: Early Detection Framework For Malware Activity Based On Anomalous Spatiotemporal Patterns	IJAIEM	2024	13/1	2319-4847
31		Design Of Wireless Electronic Scale Based On MSP430 Microprocessor	IJAIEM	2024	13/2	2319-4847
32		Distilling Structure In Taverma Scientific Workflows: A Refactoring Approach	ISJCRESM	2024	9/1	2456-1134
33		Enhancing Cooperation In MANET Using The Backbone Group Model (An Application Of Maximum Coverage Problem)	ISJCRESM	2024	9/1	2456-1134
34		Evaluation Of Features On Sentimental Analysis	ISJCRESM	2027	9/5	2456-1137
35	Dr. G. Samba Siva Rao	Era Of Cloud Computing: A New Insight To Hybrid Cloud	ISJCRESM	2024	9/2	2456-1134
36		Dark-TRACER: Early Detection Framework For Malware Activity Based On Anomalous Spatiotemporal Patterns	IJAIEM	2024	13/1	2319-4847
37		Adaptive Hierarchical Cyber Attack Detection And Localization In Active Distribution	Reinforced Plastics	2024	2024/1	0034-3617

38	Dr. Godagala Madhava Rao	Trustworthiness Assessment Of Users In Social Reviewing Systems	Reinforced Plastics	2024	2024/4	0034-3617
39		Formalization Of Signalling System By Process Calculus	IJAEP	2024	13/2	2322-3537
40		Finding Number Of Clusters Before Finding Cluster	IJAEP	2024	13/1	2322-3537
41	Dr. Inaganti Shylaja	Digital Control Algorithm For Two-Stage DC-DC Converters	IJAEP	2024	13/2	2322-3537
42		Data Poisoning Attacks On Federated Machine Learning	Reinforced Plastics	2024	2024/5	0034-3617
43		A Comprehensive Survey On Computer Forensics: State-Of-The-Art Tools Techniques Challenges And Future Directions	Reinforced Plastics	2024	2024/6	0034-3617
44		Design Of Wireless Electronic Scale Based On MSP430 Microprocessor	IJAEM	2024	13/2	2319-4847
45	Dr. Padigala Suresh	Adaptive Hierarchical Cyber Attack Detection And Localization In Active Distribution	Reinforced Plastics	2024	2024/1	0034-3617
46		Toward Data Justice Understanding Police Shooting Data Systems And Narratives	Reinforced Plastics	2024	2024/3	0034-3617
47		Fast And Accurate Algorithm For Core Point Detection In Fingerprint Images	IJAEP	2024	13/1	2322-3537
48		Framework And Architecture For Programming Education Environment As A Cloud Computing Service	IJAEP	2024	13/2	2322-3537
49	Gudipati Mohan Singh Yadav	Distilling Structure In Taverna Scientific Workflows: A Refactoring Approach	ISJCRESM	2024	9/1	2456-1134
50		Data Poisoning Attacks On Federated Machine Learning	Reinforced Plastics	2024	2024/5	0034-3617
51	Lankala Mounika	Digital Control Algorithm For Two-Stage DC-DC Converters	IJAEP	2024	13/2	2322-3537
52		Formalization Of Signalling System By Process Calculus	IJAEP	2024	13/2	2322-3537
53		Trust But Verify: A Framework For The Trustworthiness Of Distributed Systems	Reinforced Plastics	2024	2024/2	0034-3617
54		DEA-RNN: A Hybrid Deep Learning Approach For Cyberbullying Detection In Twitter Social Media Platform	IJAEM	2024	13/1	2319-4847
55		Deep Network Optimization Utilizing Adaptive Rates	IJAEM	2024	13/2	2319-4847
56		Efficient Context Modelling Using OWL In Mobile Cloud Computing	ISJCRESM	2024	9/1	2456-1134
57		Fast And Accurate Algorithm For Core Point Detection In Fingerprint Images	IJAEP	2024	13/1	2322-3537
58		Era Of Cloud Computing: A New Insight To Hybrid Cloud	ISJCRESM	2024	9/2	2456-1134
59	Mr. Merugu Anand Kumar	Trust But Verify: A Framework For The Trustworthiness Of Distributed Systems	Reinforced Plastics	2024	2024/2	0034-3617
60		Trustworthiness Assessment Of Users In Social Reviewing Systems	Reinforced Plastics	2024	2024/4	0034-3617
61		Cuckoo Search Based Optimal Mask Generation For Noise Suppression And Enhancement Of Speech Signal	IJAEM	2024	13/1	2319-4847
62		Design Of Wireless Electronic Scale Based On MSP430 Microprocessor	IJAEM	2024	13/2	2319-4847
63		Digital Control Algorithm For Two-Stage DC-DC Converters	IJAEP	2024	13/2	2322-3537
64		Efficient Context Modelling Using OWL In Mobile Cloud Computing	ISJCRESM	2024	9/1	2456-1134
65		Evaluation Of Features On Sentimental Analysis	ISJCRESM	2028	9/6	2456-1138
66		Formalization Of Learning Objects For Image-Based Language Learning In Mobile Environments	IJAEP	2024	13/1	2322-3537
67	Nagam Aanjaneyulu	Toward Data Justice Understanding Police Shooting Data Systems And Narratives	Reinforced Plastics	2024	2024/3	0034-3617
68		Cuckoo Search Based Optimal Mask Generation For Noise Suppression And Enhancement Of Speech Signal	IJAEM	2024	13/1	2319-4847
69		Dark-TRACER: Early Detection Framework For Malware Activity Based On Anomalous Spatiotemporal Patterns	IJAEM	2024	13/1	2319-4847
70		Digital Control Algorithm For Two-Stage DC-DC Converters	IJAEP	2024	13/2	2322-3537
71		Era Of Cloud Computing: A New Insight To Hybrid Cloud	ISJCRESM	2024	9/2	2456-1134
72		Formalization Of Learning Objects For Image-Based Language Learning In Mobile Environments	IJAEP	2024	13/1	2322-3537
73		Formalization Of Signalling System By Process Calculus	IJAEP	2024	13/2	2322-3537

74	Shaik Guntur Mahabub Subhani	Trustworthiness Assessment Of Users In Social Reviewing Systems	Reinforced Plastics	2024	2024/4	0034-3617
75		Efficient Context Modelling Using OWL In Mobile Cloud Computing	ISJCRESM	2024	9/1	2456-1134
76		Era Of Cloud Computing: A New Insight To Hybrid Cloud	ISJCRESM	2024	9/2	2456-1134
77		Fast And Accurate Algorithm For Core Point Detection In Fingerprint Images	IJAEP	2024	13/1	2322-3537
78		Finding Number Of Clusters Before Finding Cluster	IJAEP	2024	13/1	2322-3537
79		Formalization Of Signalling System By Process Calculus	IJAEP	2024	13/2	2322-3537
80		DEA-RNN: A Hybrid Deep Learning Approach For Cyberbullying Detection In Twitter Social Media Platform	IJAIEM	2024	13/1	2319-4847
81		Formalization Of Learning Objects For Image-Based Language Learning In Mobile Environments	IJAEP	2024	13/1	2322-3537
82	Vanapamula Veerabrahmachari	Enhancing Cooperation In MANET Using The Backbone Group Model (An Application Of Maximum Coverage Problem)	ISJCRESM	2024	9/1	2456-1134
83		Adaptive Hierarchical Cyber Attack Detection And Localization In Active Distribution	Reinforced Plastics	2024	2024/1	0034-3617
84		Toward Data Justice Understanding Police Shooting Data Systems And Narratives	Reinforced Plastics	2024	2024/3	0034-3617
85		Distilling Structure In Taverma Scientific Workflows: A Refactoring Approach	ISJCRESM	2024	9/1	2456-1134
86		Framework And Architecture For Programming Education Environment As A Cloud Computing Service	IJAEP	2024	13/2	2322-3537
87		Deep Network Optimization Utilizing Adaptive Rates	IJAIEM	2024	13/2	2319-4847
88		Finding Number Of Clusters Before Finding Cluster	IJAEP	2024	13/1	2322-3537

Academic Year – 2023-2024 (CAYm1) - Annexed Separately

Academic Year – 2022-2023 (CAYm2) - Annexed Separately

Academic Year – 2021-2022 (CAYm3) - Annexed Separately

B. Ph.D Guided / Ph.D Awarded (4)

Ph.D Awarded

Name of the Faculty	Research Guide	Registration No	Data of Registration	University	Research Area / Topic	Awarded on
Merugu Anand Kumar	Dr. S Gowri	2019201114	22-11-2019	Sathyabama Institute of Science and Technology	Protecting Sensitive Information: A Systematic Approach To Big Data Anonymization And Privacy	Feb- 2025

Ph.D Guiding / Guided

Research guide	Name of the Scholar	Status
Dr. G Sambasiva Rao	Mr. B Narasimha	Completed
	Mr. U Vinay	Completed
	Mr. Sharjeel Ahmed	Completed

Ph.D Registered Faculty

S. No.	Name of the Faculty	University / Research center	Guide	Area of Research	Year of Registration	Status
1	Mr. N Anjineyulu	Sathyabama Institute of Science and Technology, Chennai	Dr. K Nirmal Raj	Deep Learning	2023	Course work Completed

5.7.2 Sponsored Research (5)

Institute Marks : 0.00

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount
Touch less gaming System with integrated hand gesture and voice recognition	6 months	A.M. Reddy Educational Society	25000.00
			Total Amount(X): 25000.00

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount

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

Institute Marks : 10.00

5.7.3. Development Activities

A. Product Development

Apart from the products and prototypes developed by the students as part of their mini projects and main projects, the faculty members of the department are collaborating with product developments. Following are the details of the products developed by the department faculty:

Academic year : 2024-2025 (CAY)

S. No	Faculty Name	Product Name	Description of the Product	No of Faculty involved	No of students involved
1	Mr. V V B Chari	Hand Gesture Recognition Gaming Control System: Harnessing Hand Gestures and Voice Commands for Immersive Gameplay	Gesture Voice is an innovative Human-Computer Interaction (HCI) based gaming control system that transforms traditional gameplay into an immersive experience using hand gesture recognition and voice commands. This system leverages computer vision, machine learning, and speech recognition to replace conventional controllers with intuitive body movements and spoken commands, enabling a highly interactive and engaging gaming environment. Designed to be hardware-light, AI-powered, and cross-platform, the system is ideal for casual gamers, VR enthusiasts, and people with accessibility needs.	3	5
2	Dr. Merugu Anand Kumar	An Automated System for Accident Detection using ML	AutoSafe is an intelligent, real-time accident detection system that utilizes Machine Learning (ML) and IoT sensors to monitor vehicle behavior, detect road accidents automatically, and alert emergency services instantly. The system is designed to improve road safety, reduce emergency response time, and potentially save lives by providing immediate alerts with precise location and impact data. By analyzing data from onboard sensors like accelerometers, gyroscopes, GPS, and cameras, the ML models can distinguish between normal driving behavior and collision patterns with high accuracy.	3	5

Table 5.7.3.1: List of Product development activities in the academic year 2024-2025

Academic year : 2023-2023 (CAYm1)

S. No	Faculty Name	Product Name	Description of the Product	No of Faculty involved	No of students involved
1	Dr. G Sambasiva Rao	Student/ Employee Attendance Systems through IOT	The IoT-based Attendance System is an intelligent solution designed to automate and streamline the attendance process of students or employees using Internet of Things (IoT) technologies. This system ensures real-time tracking, enhanced accuracy, and eliminates manual errors typically associated with traditional attendance methods.	3	5
2	Mr. N Anjineyulu	Automating E-Government using Artificial Intelligence	The AI-powered E-Government Automation System is an innovative digital governance platform designed to automate, streamline, and optimize government services using Artificial Intelligence. The system integrates advanced technologies like Natural Language Processing (NLP), Machine Learning (ML), and Predictive Analytics to improve transparency, responsiveness, and citizen engagement in public service delivery.	3	5

Table 5.7.3.2: List of Product development activities in the academic year 2023-2024

Academic year : 2022-2023 (CAYm2)

S. No	Faculty Name	Product Name	Description of the Product	No of Faculty involved	No of students involved
1	Mr. V V B Chari	Blockchain and Machine Learning in Health care and Management	This solution integrates Blockchain and Machine Learning (ML) technologies to create a secure, intelligent, and patient-centric healthcare management system. It is designed to revolutionize how medical data is stored, shared, analyzed, and used to improve patient care, diagnostics, and administrative efficiency. The system leverages Blockchain for secure, tamper-proof, and decentralized medical records, while ML algorithms analyze healthcare data to assist in predictive diagnostics, treatment recommendations, and personalized care plans.	3	5
2	Mr. A Madhava Reddy	5g-Smart Diabetes: Toward Personalized Diabetes Diagnosis With Healthcare Big Data Clouds	5G-Smart Diabetes is an advanced healthcare solution that leverages the power of 5G connectivity, big data analytics, and cloud-based Artificial Intelligence (AI) to provide real-time, personalized diabetes monitoring and diagnosis. This system is designed to offer continuous glucose tracking, predictive alerts, lifestyle recommendations, and seamless communication between patients, caregivers, and healthcare providers. The integration of 5G technology ensures ultra-fast data transmission, while healthcare big data clouds enable large-scale analysis and AI-driven decision support for proactive and customized diabetes care.	3	5

Table 5.7.3.3: List of Product development activities in the academic year 2022-2023

B. Research laboratories

A separate space for a research laboratory is provided for the department of Computer Science and Engineering. The research lab is well equipped and includes the following facilities:

Configuration of Computer Systems:

Intel Core i5 10th Generation, 250 GB SSD, 8GB RAM, fully connected with an Internet facility, etc.

Availability of Software:

Java Developer Kit, Python, IBM Rational Rose, SQL server, and other software supporting research work.

List of Research activities in Research lab:

S. No	Name of the Faculty	Area of research	Outcomes of the Research Work
1	Dr. G Sambasiva Rao	Data Mining	PO1, PO2, PO4, PO5, PO10, PO11, PO12
2	Dr. G Madhava Rao	Computer Science & Engineering	PO1, PO2, PO4, PO10, PO11, PO12
3	Dr. P Suresh	Image Processing	PO1, PO2, PO4, PO5, PO10 ,PO11, PO12

Table 5.7.3.4 List of Research Activities in Research Lab

C. Instructional materials

Course files as Instruction Material

Academic Year: 2024-2025(CAY)

S. No	Name of The Faculty	Course File Prepared	Class & Sem
1	Mr N Anjeneyulu	Cloud Computing	IV-I
2	Mr.M.Anand Kumar	Ethical Hacking	IV-I
3	Mr.G.Mohan Singh Yadav	Social Networks and Semantic Web	IV-I
4	Mrs T Deepthi	Universal Human Values	IV-I
5	Mrs. Sk Kasim Bee Bi	Electronics Measurements& Instrumentation	IV-I
6	Mr. K Ramu	Remote Sensing and GIS	IV-I
7	Mr. N Anjeneyulu	Machine Learning	III-II
8	Dr. P.Suresh	Compile Design	III-II
9	Mr. Sk.Subhani	Disaster Management	III-II
10	Mr. V V B Chari	Cryptography And Network Security	III-II
11	Mrs. A. Sai Pujitha	Object Oriented Analysis and Design	III-II
12	Mr. V V B Chari	Computer Networks	III-I
13	Mr. Sk.Subhani	Environmental Management	III-I
14	Mrs. A. Sai Pujitha	Design And Analysis Of Algorithms	III-I
15	Mr. A. Jagan Mohan Reddy	Data Warehousing and Data Mining	III-I
16	Mr. A. Madhava Reddy	Software Project Management	III-I
17	Mrs. G. Sravani	Managerial Economics Financial analysis	II-II
18	Dr. I. Shylaja	Operating Systems	II-II
19	Mrs. Ch. Rekha	Database Management Systems	II-II
20	Mrs. B. Roja lakshmi	Software Engineering	II-II
21	Mr. M. P.Nagur	Probability & Statistics	II-II
22	Mr. Sk. Mahabub Subhani	OOPS Through Java	II-I
23	Dr. G. Bhaskar Reddy	Discrete Mathematics& Graph Theory	II-I
24	Mrs. Ch.Rekha	Advance Data Structures And Algorithms	II-I
25	Mrs. G.Sravani	Universal Human Values	II-I
26	Mr. T.Manoj	Digital Logic & Computer Organization	II-I

Table 5.7.3.5 List of course faculty prepared course files for the academic year 2024-2025

Academic Year: 2023-2024(CAYm1)

S. No	Name Of The Faculty	Course File Prepared	Class & Sem
1	Mr. N.Anjeneyulu	Cloud Computing	IV-I
2	Mr. M.Anand Kumar	Ethical Hacking	IV-I
3	Mr. A.Jagan Mohan Reddy	Social Networks And Semantic Web	IV-I
4	Mrs. G.Sarvani	Universal Human Values	IV-I
5	Mr. G.Anil Kumar	Electronics Measurements& Instrumentation	IV-I
6	Mr. R .Rathaiah	Remote Sensing And GIS	IV-I
7	Dr. I. Shylaja	Machine Learning	III-II
8	Mr.A. Madhava Reddy	Compile Design	III-II
9	Mrs. T.Pavani	Environmental Engineering	III-II
10	Mr.V. Veerabrahmachari	Cryptography And Network Security	III-II

11	Mrs.L. Mounika	Object Oriented Analysis and Design	III-II
12	Mr.V.V.B.Chari	Computer Networks	III-I
13	Mr.Sk.Subani	Environmental Management	III-I
14	Dr.G.Madhava Rao	Design And Analysis Of Algorithms	III-I
15	Mr.M.Mallikarjuna Rao	Data Ware housing And Data mining	III-I
16	Mr.A.Madhava Reddy	Software Project Management	III-I
17	Mrs.Ch.Rekha	Database Management System	II-II
18	Mr.G. Bhaskar Reddy	Probability And Statistics	II-II
19	Ms.G. Sravani	Managerial Economics Financial Accountancy	II-II
20	Mr.Sk.M.Subhani	Java Programming	II-II
21	Dr. Padigala Suresh	Formal Language & Automata Theory	II-II
22	Dr. I. Shylaja	Operating System	II-I
23	Dr. G. Samba Siva Rao	Oops Through C++	II-I
24	B.Roja Lakshmi	Software Engineering	II-I
25	Mr.Nagur Mp	Mathematics Iii	II-I
26	Mr.G.Baskar Reddy	Mathematical Foundations Of Computer Science	II-I

Table 5.7.3.6 List of course faculty prepared course files for the academic year 2023-2024

Academic Year: 2022-2023(CAYm2)

S. No	Name Of The Faculty	Course File Prepared	Class & Sem
1	Mrs.T.Deepthi	Management And Organizational Behavior	IV-II
2	Mrs. G Sravani	Entrepreneurship	IV-II
3	Dr. P. Suresh	Devops	IV-II
4	Mr.A. Madhava Reddy	Software Project Management	IV-I
5	Mr.A.Jagan Mohan Reddy	Unified Modeling Language	IV-I
6	Mr.M.Anand Kumar	Machine Learning	IV-I
7	Mr.N.Anjaneyulu	Cloud Computing	IV-I
8	Mr.N Ramesh Babu	Embedded System	IV-I
9	Mr.M.Mallikarjuna Rao	Cryptography And Network Security	IV-I
10	Mr.V.V.B.Chari	Cryptography And Network Security	III-II
11	Mrs. L. Mounika	Object Oriented Analysis And Design	III-II
12	Dr. I Sailaja	Machine Learning	III-II
13	Mr. A. Madhava Reddy	Compiler Design	III-II
14	Mr. Ch. Raghunatha Babu	Fundamentals Of Micro Processors & Micro Controllers	III-II
15	Mrs.A.Madhava Reddy	Software Project Management	III-I
16	Dr.G.Madhava Rao	Design And Analysis Of Algorithms	III-I
17	Mrs.M.Mallikarjuna Rao	Data Warehousing And Datamining	III-I
18	Mr.V.V.B.Chari	Computer Networks	III-I
19	Dr. P.Ganesh	Basics Of Electronics	III-I
20	Mr P.Nagur	Probability And Statistics	II-II
21	Mrs.Ch. Rekha	Database Management System	II-II
22	Dr. P. Suresh	Formal Languages And Automata Theory	II-II
23	Mr. Sk. Subhani	Java Programming	II-II
24	Mrs. G.Sravani	Managerial Economics And Financial Accountancy	II-II
25	Mr. Nagur M.P	Mathematics- Iii	II-I
26	Mr. G.Bhaskar Reddy	Mathematical Foundation Of Computer Science	II-I
27	Dr. G.Sambasiva Rao	Oops Through C++	II-I
28	Dr. I Sailaja	Operating Systems	II-I
29	Dr. P.Suresh	Software Engineering	II-I

Table 5.7.3.7 List of course faculty prepared course files for the academic year 2022-23

Lab files as Instruction Material

Academic year – 2024-2025 (CAY)

S. No	Name Of The Faculty	Lab Course File Prepared	Class & Sem
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1	Dr. G. Samba Siva Rao / Dr.G.Madhava Rao	Project	IV/II
2	Mrs.L.Mounika	Mean Stack Technologies Lab	IV/I
3	Mr.N Anjaneyulu	Machine Learning Lab	III/II
4	Dr.P.Suresh	Compile Design Lab	III/II
5	Mr.V V B Chari	Cryptography And Network Security Lab	III/II
6	Mrs.L.Mounika	Mean Stack Technologies -Ii	III/II
7	Mr. V.V. B Chari	Computer Networks Lab	III/I
8	Mr.A.Jagan Mohan Reddy	Data Wearhousing And Datamining Lab	III/I
9	Mrs.L.Mounika	Animation Course Lab	III/I
10	Dr.I.Shylaja	Operating Systems Lab	II/II
11	Mrs.Ch.Rekha	Database Management Systems Lab	II/II
12	Mrs.T.Deepthi	Design Thinking & Inovation	II/II
13	Mr.Sk.M.Subhani	Full Stack Development-I	II/II
14	Mr.Sk.M.Subhani	Oops Throufgt Java Lab	II/I
15	Mrs.Ch.Rekha	Advance Data Structer And Algorithms Lab	II/I
16	Mr.M.Malikaarjuna	Python Programming Lab	II/I

Table 5.7.3.8 List of course faculty prepared Lab course files for the academic year 2024-2025

Academic Year – 2023-2024 (CAYm1)

S. No	Name Of The Faculty	Lab Course File Prepared	Class & Sem
1	Dr. G. Samba Siva Rao/ Dr.G.Madhava Rao	Project	IV/II
2	Mr.Sk.M.Subhani	Mean Stack Technologies Lab	IV/I
3	Dr. Inaganti Shylaja	Machine Learning Lab	III/II
4	Mr.A Madhava Reddy	Compile Design Lab	III/II
5	V. Veerabrahmachari	Cryptography And Network Security Lab	III/II
6	Mr.M.Mallikarjuna Rao	Mean Stack Technologies -Ii	III/II
7	Mr.V.V.B.Chari	Computer Networks Lab	III/I
8	Mr.M.Mallikarjuna Rao	Data Wearhousing And Datamining Lab	III/I
9	Dr.G.Madhava Rao	Animation Course Lab	III/I
10	Mrs.Ch.Rekha	Database Management System Lab	II/II
11	Mr.Sk.M.Subhani	Java Programming Lab	II/II
12	Mr.N.Anjeneyulu	R Programming Lab	II/II
13	Mr.M.Mallikarjuna Rao	Mean Stack Technologies -I	II/II
14	Dr. G. Samba Siva Rao	Oops Through C++ Lab	II/I
15	Dr. I. Shylaja	Operating System Lab	II/I
16	B.Roja Lakshmi	Software Engineering Lab	II/I
17	Dr. P.Suresh	Python Numpy Lab	II/I

Table 5.7.3.9 List of course faculty prepared Lab course files for the academic year 2023-2024

Academic Year – 2022-2023 (CAYm2)

S. No	Name Of The Faculty	Lab Course File Prepared	Class & Sem
1	Dr. G. Sambasiva Rao/ Dr. G. Madhava Rao	Project	IV/II
2	Mr.A.Jagan Mohan Reddy	Unified Modeling Language Lab	IV/I
3	Dr.P.Suresh	Project	IV/I
4	Mr.V.V.B.Chari	Cryptography And Network Security Lab	III/II
5	Dr. I. Sailaja	Machine Learning Lab	III/II
6	Mr. A. Madhava Reddy	Compiler Design Lab	III/II
7	Mr. M. Mallikarjuna Rao	Compiler Design Lab	III/II
8	Mrs.M.Mallikarjuna Rao	Data Warehousing And Data Mining Lab	III/I
9	Mr.V.V.B.Chari	Computer Networks Lab	III/I
10	Dr.G.Madhava Rao	Animation Course Lab	III/I

11	Mrs.Ch. Rekha	Java Programming Lab	II/II
12	Mr. N. Anjaneyulu	Database Management System Lab	II/II
13	Mr. Sk. Subhani	R Prog Lab	II/II
14	Mr. M. Anand Kumar	Python-Pandas	II/II
15	Dr. G.Sambasiva Rao	Oops Through C++ Lab	II/I
16	Dr. I Sailaja	Operating Systems & Unix Programming Lab	II/I
17	Mr. M.Mallikarjuna Rao	Python Numpy Lab	II/I
18	Dr. P.Suresh	Software Engineering Lab	II/I

Table 5.7.3.10 List of course faculty prepared Lab course files for the academic year 2022-2023

Figure 5.7.3.1: Sample Lab Manual of Faculty(Master) Copy (Annexed Separately)

D. Working models/charts/monograms etc.

List of working models and charts available for Teaching learning prepared by the faculty are given below

S. No.	Model / Chart	Working Model/ charts/ monograms
1.	Computer Networks Lab Chart	CSE LAB-2
2.	Python Programming Lab Chart	CSE LAB-1
3.	UNIX & OS Lab Chart	CSE LAB-2
4.	CNS Lab Chart	CSE LAB-3
5.	Machine Learning Lab Chart	CSE LAB-3
6.	Data Structure Lab Chart	CSE LAB-1
7.	Compiler Design Lab Chart	CSE LAB-3
8.	Mean Stack Module Lab Chart	CSE LAB-2
9.	Software Engineering Lab Chart	CSE LAB-2
10	Java Lab Chart	CSE LAB-1

Table 5.7.3.11 List of working model prepared by faculty in assessment period.

Figure 5.7.3.2: Working Models (Charts / Posters)(Annexed Separately)

5.7.4 Consultancy(from Industry) (5)

Institute Marks : 4.00

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount
Smart attendance System with Face recognition	2 Years	ProlT Solutions	300000.00
AI-Based Traffic Violation Detection System	2 Years	ProlT Solutions	300000.00
AI-Driven mental Health Chat support	2 Years	ProlT Solutions	300000.00
			Total Amount(X): 900000.00

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount

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

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

Faculty members of Higher Educational Institutions today must perform a variety of tasks pertaining to diverse roles. In addition to instruction, Faculty members need to innovate and conduct research for their self-renewal, keep abreast with changes in technology, and develop expertise for effective implementation of curricula. They are also expected to provide services to the industry and community for understanding and contributing to the solution of real-life problems in industry. Another role relates to the shouldering of administrative responsibilities and co-operation with other Faculty, Heads-of-Departments, and the Head of Institute. An effective performance appraisal system for Faculty is vital for optimizing the contribution of individual Faculty to institutional performance.

The assessment is based on:

A. A well-defined system for faculty appraisal for all the assessment years (10)

The performance appraisal system of the staff is evaluated on multiple activities which are appropriately captured and considered for better appraisal through the following steps:

Step- 1: Yearly Self-Appraisal

- Based on Academic Results
- Based on Number of Workshops and training Programs Conducted
- Based on Faculty achievements such as research contributions (paper publications, funded R&D projects, and consultancy)
- Membership in professional societies
- Additional responsibilities contribute to administration.

Step- 2: Student Feedback on faculty

- Feedback on faculty from students is collected every semester and evaluated. Based on the performance of the faculty, a HoD recommendation will be suggested.

Step- 3: HoD Recommendation

- After evaluation of student feedback from faculty, HoD asks for explanation and action to improve on poor performances. And HoD recommends the faculty for best performance for college-level awards and suggests corrective measures for poor performances.

Self-Appraisal:

The following parameters are evaluated for the faculties:

1. Instructional work is assigned.
2. Supervisory and guidance support is provided to UG and PG projects.
3. Responsibilities undertaken as coordinator for institutional committees, events, etc.
4. Activities organized: seminars, workshops, conferences, symposiums, and continuing education Programmer etc.)
5. Research papers, books published, conferences, articles, monographs, etc.
6. Sponsored Projects/Consultancy
7. Participation: seminars, workshops, conferences, symposiums, and continuing education programs (training, etc.).

The format of Self-appraisal and Performance appraisal are given below:

Figure 5.8.1: Format of faculty self – appraisal and performance evaluation (Annexed Separately)

Sample Filled Performance Appraisal:

Figure 5.8.2: Filled sample faculty self – appraisal (Annexed Separately)

Figure 5.8.3: Remarks of HoD, Principal on faculty performance appraisal (Annexed Separately)

Figure 5.8.4: Faculty Certificate of Appreciation (Annexed Separately)

Figure 5.8.5: Cash Award for best performance payment through voucher (Annexed Separately)

B. Its implementation and effectiveness: (20)

At the end of every academic year, the entire faculty is required to submit the filled-in Performance Appraisal form along with necessary enclosures. The Head of the Department reviews the filled-in proforma submitted by the faculty member and awards his/her evaluation marks. The Appraisal form is then reviewed by Principal.

All successful faculty get a cash award of Rs. 5000 and a certificate of appreciation. Those whose performance is not up to par are counselled and advised to attend various orientation programs for their personal and professional development.

Effectiveness	2023-24	2022-23	2021-2022	2020-2021
Award/Reward	5	4	4	2
Corrective measures	1	2	2	2

Outcome of the review of the performance appraisal reports:

The decision taken is based on the outcome of the review of the performance appraisal reports by the management. It is conveyed by

- a. One-one interaction
- b. Discussions of general issues in departmental meetings

Decisions:

1. The increments are given at the end of the academic year.
2. Knowing the status and capabilities of the faculty.
3. Identify the areas in which training is required.
4. Check the loopholes, if any, in the system or policies.
5. Taking the output of the performance appraisal, as basis to plan for the future to ensure right man to right job.
6. Enforced the training program.
7. Repositioned the employees according to their performances in their roles assigned to them.

- 8. Good performers are appreciated and encouraged further for better performance.
- 9. Reward/Award to the outstanding performers.

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

Total Marks 10.00

Visiting/Adjunct/ Emeritus Faculty etc. (10)**Provision for Inviting Adjunct Faculty:**

There is a provision for inviting adjunct faculty to make the students interact with industry persons or eminent academicians to get exposure to the industry, in- depth knowledge, or hands-on experience.

S. No	Name of the Visiting Faculty	Visiting faculty details
1	Mr. M Kalyana Chakravarthy	Sr. Software Engineer, Adaps IT Private Limited, Hyderabad
2	Mr. Ramu Reddy	Co-Founder, Meticulous Orbit
3	Mr. Vijay Kumar	Co- Founder, Ratiosphere Technologies, Hyderabad
4	Mr. CH Sreeram Reddy	Founder Pro-IT Solutions

Details of the interaction Year wise:

Academic Year	Visiting faculty	Hours
2023-2024	03	72
2022-2023	03	72
2021-2022	03	72

Table 5.9.1 List visiting faculty and No. of hours' hours took the class work.**Details of Visiting Faculty**

AcademicYear:2023-24 (CAYm1)

S. No	Name of the Visiting Faculty	Visiting faculty details	Name of the Course	Relevance to PO	Class	% of students	No. of Hours
1	Mr. M Kalyana Chakravarthy	Sr. Software Engineer, Adaps IT Private Limited, Hyderabad	Cryptography and Network Security	PO1, PO2, PO3, PO4, PO5, PO12	III	85	24
2	Mr. Ramu Reddy	Co-Founder, Meticulous Orbit	Ethical Hacking	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11	IV	90	24
3	Mr. Vijay Kumar	Co- Founder, Ratiosphere Technologies, Hyderabad	Machine Learning	PO1, PO2, PO3, PO4, PO5, PO12	III	86	24

Table 5.9.2 List visiting faculty advised to students in the academic year 2023-24

AcademicYear:2022-23 (CAYm2)

S. No	Name of the Visiting Faculty	Visiting faculty details	Name of the Course	Relevance to PO	Class	% of students	No. of Hours
1	Mr. M Kalyana Chakravarthy	Sr. Software Engineer, Adaps IT Private Limited, Hyderabad	Cryptography and Network Security	PO1, PO2, PO3, PO4, PO5, PO12	III	92	24
2	Mr. Ramu Reddy	Co-Founder, Meticulous Orbit	Ethical Hacking	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11	IV	94	24
3	Mr. Vijay Kumar	Co- Founder, Ratiosphere Technologies, Hyderabad	Software Engineering	PO1, PO2, PO3, PO4, PO5, PO10,	II	90	24

Table 5.9.3 List visiting faculty advised to students in the academic year 2022-23

AcademicYear:2021-22 (CAYm3)

S. No	Name of the Visiting Faculty	Visiting faculty details	Name of the Course	Relevance to PO	Class	% of students	No. of Hours
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1	Mr. M Kalyana Chakravarthy	Sr. Software Engineer, Adaps IT Private Limited, Hyderabad	Cryptography and Network Security	PO1, PO2, PO3, PO4, PO5, PO12	III	92	24
2	Mr. Ramu Reddy	Co-Founder, Meticulous Orbit	Ethical Hacking	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO10, PO11	IV	89	24
3	Mr. Ch Sreeram Reddy	Founder Pro-IT Solutions	Software Project Management	PO1, PO2, PO3, PO4, PO8, PO9, PO10, PO11, PO12	III	98	24

Table 5.9.4 List visiting faculty advised to students in the academic year 2021-22

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	LAB -1	60	Computer, UPS, AC, Switches, LAN	85	M Lavanya	Lab Programmer	MCA
2	LAB -2	60	Computer, UPS, AC, Switches, LAN	82	T Koteswara Rao	Lab Programmer	MCA
3	LAB -3	60	Computer, UPS, AC, Switches, LAN	85	M Bharath	Lab Programmer	MCA
4	LAB -4	60	Computer, UPS, AC, Switches, LAN	90	V Vineesha	Lab Programmer	B.SC (Computers)

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	Project Lab	JDK, Rational Rose, Python, Anaconda,	To provide platform for Developing projects beyond college hours	Utilized for IV year students	Developing project with respect to Machine Learning and deep learning projects	PO1, PO2, PO3, PO4, PO5, PO10, PSO1, PSO2
2	Mongo DB	Advanced Database	To provide a platform for upgradation of database system	To conduct a programs for the Students	Creation and all other operations on the database by using MongoDB	PO1, PO2, PO3, PO4, PO5, PO6, PO9, PO11, PO12, PSO2.
3	Anaconda, Python, IDLE 3.5	Free and open source distribution of python and R programming languages for scientific computing.	To provide a platform for the Students to develop Applications.	To conduct a program for Students.	Data analytics, AI, Machine learning	PO1, PO2, PO3, PO4 PO5, PO9, PO11 PSO1, PSO2
4	Design of Website	Application Development	To provide a platform to Students for building web applications.	To conduct a program for Students.	Applications development for Android device.	PO1, PO2, PO3, PO4 PO5, PO9, PO11, PSO1, PSO2
5	Weka	It provides tools for data preprocessing	To provide a platform for data preprocessing	To conduct Data mining experiments for 4th year students.	Data preprocessing and implementation of several Machine Learning algorithms	PO1, PO2, PO3, PO4 PO5, PO9, PO11, PSO1, PSO2

6.3 Laboratories: Maintenance and overall ambience (10)

Total Marks 10.00

6.3. Laboratories: Maintenance and overall ambiance (10)

Regular Maintenance

- A complaint register is maintained in all the laboratories.
- If any complaints are registered by the students, then the technical staff will monitor and solve the complaint. If the complaint is not resolved, then it is registered in the maintenance register.
- The system administrator will monitor and solve the issue. If the complaint is not resolved, then third parties will be involved to solve the complaint.
- A regular checkup of the equipment is carried out at the end of every semester.
- Trained technical staff are available for the maintenance of equipment and software.
- Software required for every semester is installed at the beginning of the semester by the technical staff of the respective lab in the presence of the concerned subject faculty.
- A specific maintenance slot is provided for every lab.
- Chairs and tables are serviced and maintained.
- Electrical maintenance items such as UPS, A/C, electrical ports, switches, network cables, lights, and fans are serviced periodically.

Breakdown Maintenance (Process of servicing)

- The technical staff of the respective lab will inform the concerned authority.
- The technical staff of the respective lab will check whether the issue can be solved at their level.
- If not, the incident is reported to the system administrator, who further looks into the complaint and tries to troubleshoot the problem. If the problem could be fixed locally, he would call his teammates and try to solve the issue.
- Otherwise, the help of an external service agency is sought for repairs or replacement.
- The system administrator will verify the job done and certify that the job has been carried out satisfactorily.

S. No.	Name of the Lab	Area in sq.mt.	Periodic Maintenance
1	CSE LAB-1	104.44	Weekly once
2	CSE LAB-2	104.44	Weekly once
3	CSE LAB-3	87.01	Weekly once
4	CSE LAB -4	87.01	Weekly once

Overall Ambiance:

- The department is furnished with state-of-the-art laboratories, such as computers with LAN connectivity, projectors, and printers. Computers are installed with the required software (licenced or open source) to run program-specific curriculum as well as off-program curriculum.
- The floors are cleaned and mopped periodically.
- Lab equipment such as tables, chairs, systems, peripherals, and other components is cleaned regularly.
- The labs are well designed, with a sufficient number of windows for ventilation and natural light. Along with an adequate number of fans, LED lights, and curtains.
- Every laboratory is provided with air conditioners for the smooth running of computers.
- The laboratories also contain shoe racks for student convenience.

Figure 6.3.5 View of CSE LAB -1 (Annexed Separately)

Figure 6.3.6 View of CSE LAB -2 (Annexed Separately)

Figure 6.3.7 View of CSE LAB -3 (Annexed Separately)

Figure 6.3.8 View of CSE LAB -4 (Annexed Separately)

6.4 Project laboratories (5)

Total Marks 5.00

6.4. Project Work Laboratory

Facilities & Utilization (5)

1. A project work laboratory with a total area of 104.44 sq ft is dedicated for all semester students who are interested in carrying out individual or team projects for various competitions like Hackathon or any other organisational events, assignment projects, mini projects, major projects, etc.
2. Students utilise the lab facility with the help of concerned guides, mentors, and technical staff.
3. The room number of the project lab is IG18.
4. 60 computer systems were assigned exclusively for the project work which they can utilize beyond college hours. The configuration of the computer systems is given below.

Computer Systems Configuration in Project Lab:

S. No	Equipment	Specification
1	Company Name	Lenova
2	CPU Model	Lenova Think centers
3	Processor	Intel i5, 4 th Gen
4	Speed	3.70 GHz
5	RAM	16 GB
6	Hard Disk/SSD	256 GB SSD
7	Monitor	18.5" LED

*Table 6.4.1: Details of Computers Facility in Project Laboratory***List of Software Used in Project Lab:**

S. No	Software	Description
1	JDK	Object oriented programming language
2	Python	Object oriented programming language
3	IBM Rational Rose	To create UML Diagrams and generate code for Design Patterns
4	Oracle	It's a multi-model database management system
5	Anaconda	Free and open source distribution of python and R programming languages for scientific computing.
6	Plagiarism Software	For research work and project documentation using to check the plagiarism.

*Table 6.4.2: List of Software in Project Laboratory***List of projects done in this Lab****Academic Year 2023-24 (CAYm1)**

S. No.	Hall Ticket No.	Title of the Project	Name of the Guide
1	20HM1A0550	Email Spam Detection	Dr. G. Samba Siva Rao
	20HM1A0509		
	20HM1A0522		
	20HM1A0504		
	20HM1A0528		
2	20HM1A0508	Student/ Employee Attendance Systems through IOT	Dr. Godagala Madhava Rao
	20HM1A0533		
	20HM1A0520		
	20HM1A0532		
	20HM1A0535		
3	20HM1A0515	Web based Graphical Passwords Authentication System using ML	Dr. Inaganti Shylaja
	20HM1A0526		
	20HM1A0542		
	20HM1A0507		
	20HM1A0552		

4	20HM1A0517	Heart Disease Prediction using Machine Learning	Dr. Padigala Suresh
	20HM1A0502		
	20HM1A0510		
	20HM1A0502		
	20HM1A0551		
5	20HM1A0531	Automating E-Government using Artificial Intelligence	Nagam Aanjaneyulu
	20HM1A0530		
	20HM1A0523		
	20HM1A0543		
	20HM1A0506		
6	20HM1A0540	Credit card Fraud Analysis using Predictive System In Machine Learning	Vanapamula Veerabrahmachari
	20HM1A0539		
	20HM1A0537		
	20HM1A0501		
7	20HM1A0545	Chatbot using Artificial Intelligence	Arekatla Jaganmohan Reddy
	20HM1A0524		
	20HM1A0505		
	20HM1A0555		
8	20HM1A0547	Intelligent Agent based Job Search System using React JS and Python	Shaik Guntur Mahabub Subhani
	20HM1A0527		
	20HM1A0519		
	20HM1A0518		
	20HM1A0554		
9	20HM1A0548	Weapon Detection using Artificial Intelligence and Deep Learning for Security	Mr. M. Anand Kumar
	20HM1A0529		
	20HM1A0538		
	20HM1A0546		
	20HM1A0534		
10	21HM5A0501	Emotion Face Detection using Twitter Datasets and Spacy Algorithm	Arekatla Madhava Reddy
	20HM1A0536		
	20HM1A0525		
	20HM1A0512		
	20HM1A0553		

Table 6.4.3: List of projects done in project lab for the A.Y. 2023-24

Academic Year 2022-23 (CAYm2)

S. No.	Hall Ticket No.	Title of the Project	Name of the Guide
1	19HM1A0532	Survey on fake detection on social sites by using Machine Learning Algorithm	Dr. G. Samba Siva Rao
	19HM1A0505		
	19HM1A0573		
	19HM1A0534		
	19HM1A0519		
2	19HM1A0554	A Comparative Study of Machine Learning And Deep Learning Techniques For Sentiment Analysis	Dr. Godagala Madhava Rao
	19HM1A0561		
	19HM1A0553		
	19HM1A0522		
	19HM1A0513		

3	19HM1A0564	Automated head gesture recognition using a Deep convolutional neural network model	Dr. Inaganti Shylaja
	19HM1A0503		
	19HM1A0529		
	19HM1A0521		
	19HM1A0514		
4	19HM1A0541	Blockchain and Machine Learning in Health care and Management	Nagam Aanjaneyulu
	19HM1A0512		
	19HM1A0545		
	19HM1A0518		
	19HM1A0562		
5	19HM1A0526	5g-Smart Diabetes: Toward Personalized Diabetes Diagnosis With Healthcare Big Data Clouds	Vanapamula Veerabrahmachari
	19HM1A0536		
	19HM1A0549		
	19HM1A0524		
	19HM1A0576		

Table 6.4.4: List of projects done in project lab for the A.Y. 2022-23

Academic Year 2021-22 (CAYm3)

Batch No	Hall Ticket No	Title of the Project	Project Guide
1	18HM1A0502	NETWORK TRAFFIC ANALYSIS USING MACHINE LEARNING	Mr. V.V.B.CHARI
	18HM1A0504		
	18HM1A0551		
	17HM1A0514		
	18HM1A0515		
2	18HM1A0503	STUDENTS ATTENDANCE VISULIZATION	Mr. N. ANJANEYULU
	18HM1A0505		
	18HM1A0511		
	18HM1A0532		
	18HM1A0554		
3	18HM1A0507	PHISING WEBSITE DETECTION USING ML ALGORITHM	Mr. SK. SUBHANI
	18HM1A0519		
	18HM1A0524		
	18HM1A0549		
	18HM1A0556		
4	18HM1A0509	RAINFALL PREDCTION USING MACHINE LEARNING	Mr. A. MADHAV REDDY
	18HM1A0508		
	18HM1A0526		
	18HM1A0535		
	18HM1A0542		

Table 6.4.5: List of projects done in project lab for the A.Y. 2021-2022

6.5 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	LAB -1	First Aid Box with medicine, Fire Extinguisher, Display of Lab Safety Rules, Good Ground Earthing, Emergency Contact Numbers
2	LAB -2	First Aid Box with medicine, Fire Extinguisher, Display of Lab Safety Rules, Good Ground Earthing, Emergency Contact Numbers
3	LAB -3	First Aid Box with medicine, Fire Extinguisher, Display of Lab Safety Rules, Good Ground Earthing, Emergency Contact Numbers
4	LAB -4	First Aid Box with medicine, Fire Extinguisher, Display of Lab Safety Rules, Good Ground Earthing, Emergency Contact Numbers

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	2.33	2.59	Target is Achieved.
Action 1: Plan to conduct technical talks to increase engineering knowledge further. Action 2: Plan to conduct seminars to increase engineering knowledge. Action 3: Plan to conduct subsequent doubts clarifying session / Study Hours beyond the regular planned classes. Action 4: Plan to arrange bridge courses before the semester begins for 1st year subjects.			
PO 2 : Problem Analysis			
PO 2	2.08	2.38	Target is Achieved.
Action 1: It is proposed to increase the target level in the next academic year. Action 2: Assignments will be framed to increase the problem-solving capabilities further. Action 3: Increase the problem-solving capabilities by giving the needed writing work.			
PO 3 : Design/development of Solutions			
PO 3	2.10	2.41	Target is Achieved.
Action 1: Plan to conduct a web and user interface development workshop. Action 2: Projects will be given to students to increase their design capabilities.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	2.04	2.38	Target is Achieved.
Action 1: An Android Application Development Workshop will be conducted in the next academic year. Action 2: Students will be motivated to participate in national and international conferences. Action 3: It is proposed to increase the target level in the next academic year.			
PO 5 : Modern Tool Usage			
PO 5	2.10	2.46	Target is Achieved.
Action 1: AMR Hackmania will be conducted in the future. Action 2: Workshops will be conducted to improve modern tool usage capabilities.			
PO 6 : The Engineer and Society			
PO 6	1.92	2.28	Target is Achieved.
Action 1: Students will be encouraged to participate in a hackathons to solve problems related to societal needs. Action 2: Students are to be given awareness of real-world problems so that they will be motivated to develop any application that will be useful for society.			
PO 7 : Environment and Sustainability			
PO 7	2.16	2.72	Target is Achieved.
Action 1: Encouraging the students to participate in conferences, seminars, and workshops Action 2: Training sessions need to be conducted to build confidence in the profession's trustworthiness and provide greater transparency about handling their affairs.			
PO 8 : Ethics			
PO 8	2.02	2.35	Target is Achieved.
Action 1: Internship talk on skill development Action 2: Students are to be trained on communication skills so that they can convey their ideas, which will be helpful to society. Action 3: Community service projects will be assigned to identify major societal problems and apply students' engineering knowledge to develop effective solutions for the betterment of society.			
PO 9 : Individual and Team Work			
PO 9	1.86	2.31	Target is Achieved.
Action 1: Encouraging the students to participate in conferences, seminars, and workshops Action 2: Training sessions need to be conducted to build confidence in the profession's trustworthiness and provide greater transparency about handling their affairs. Action 3: Students were involved in teamwork, such as project work and the conduct of events. Action 4: students are encouraged to develop the habit of breaking down tasks, assigning responsibilities, and setting timelines when working in a team			
PO 10 : Communication			
PO 10	1.90	2.28	Target is Achieved.
Action 1: Students are to be trained on communication skills so that they can convey their ideas, which will be helpful to society. Action 2: Students were guided for technical seminars and internship presentations on communication skills. Action 3: It is proposed to increase the target level in the next academic year.			
PO 11 : Project Management and Finance			
PO 11	1.70	2.11	Target is Achieved.
Action 1: Encourage the students to participate in funded agency projects to learn about project management and finance management. Action 2: Training sessions have to be conducted by industrial experts related to project management and finance and to discuss different case studies pertaining to the application of leadership qualities and managing finance in multi-disciplinary environments. Action 3: Project exhibitions will be held to encourage the students to exhibit their project management skills. Action 4: It is proposed to increase the target level in the next academic year.			
PO 12 : Life-long Learning			
PO 12	1.92	2.29	Target is Achieved.

Action 1: A technical talk on the Internet of Things will be organized. Action 2: Students will be encouraged to register and complete online courses from Coursera, Udemy and NPTEL.

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

PSOs	Target Level	Attainment Level	Observations
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PSO 1 : To apply domain knowledge and expertise for enhancing research capability to transform innovative ideas into reality.

PSO 1	2.29	2.58	Target is Achieved.
<p>Action 1: Encourage final-year and mini projects focused on solving real-world problems using core engineering principles. Action 2: Organize workshops to train students in writing and publishing technical papers in reputed journals and conferences. Action 3: Allocate dedicated lab hours or resources for students interested in prototype development and experimental research. Action 4: Encourage students to align academic project work with current research trends and societal needs Action 5: Use student feedback, project reviews, and publication quality assessments to identify gaps and improve research-oriented teaching.</p>			

PSO 2 : To prepare students to undertake careers involving problem solving using computer science and technologies

PSO 2	2.21	2.50	Target is Achieved.
<p>Action 1: Encourage students to develop software solutions for real-life problems via mini and major projects. Action 2: Encourage completion of NPTEL, Coursera in programming, system design, or domain-specific problem-solving. Action 3: Provide focused aptitude, coding, and interview preparation training aligned with industry recruitment standards. Action 4: Partner with IT companies to provide students with real-world problem statements as part of their final-year projects. Action 5: Collect inputs from employers, alumni, and industry experts to identify gaps in problem-solving skills and continuously improve teaching methods.</p>			

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

Total Marks 10.00

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

A. Assessment shall be based on conduct and actions taken in relation to continuous improvement (10)

The purpose of an academic audit is to improve the quality of the education system within the departments and identify the activities required to improve the quality of teaching and learning.

- Academic Audit includes monitoring the conduct of the course, adherence to the course plan, time tables, completion of the syllabus, standards for internal tests, and the evaluation process.
- It also addresses the difficulties faced by students and recommends suitable remedial actions, if required.
- The academic audit team also investigates the involvement of both students and faculty members in skill enhancement programs and research.

Internal Audits:

The audits are taken up by IQAC, where the senior faculty is the coordinator and one senior faculty member from each department is a member. The whole system is viewed as a continuous process, with emphasis on continuous improvement.

The following documents are maintained at the department level for the purpose of academic audit:

1. Personal files of each faculty member
 - a. Towards their quality improvement
 - b. Contribution for their personal and professional growth.
2. Course Files
 - a. Towards quality teaching and learning
 - b. Contribution towards their professional growth.
 - c. Lab instruction manuals for practical courses
 - d. Log book details in the laboratory
3. Stock Verification in the laboratory
4. Time Tables and attendance registers with day – to – day evaluation
 - a. These time tables show the faculty work load and the time of the class. The master timetable will have comprehensive information about teacher-wise and class- wise time-slot allocation in a single view. Class time table shows the schedule of time allotment to various subjects and activities.
 - b. Lab files
 - c. Class time tables and Master time tables.
 - d. Marking the attendance of the students regularly as per the time table.
 - e. Result Analysis.
5. Results Analysis will help to understand how the students are learning, and how they have performed and allows us to check student progress.
6. Details of students' success (Placements, Higher education, competitive exams etc.).
 - a. Placements, Competitive exams and Higher studies give students the opportunity for improvement of skills explicit to their subject or industry of choice as well as the employability skills required for real work.
7. Student Feedback
 - a. Student feedback has become a widely used process to evaluate and improve teaching effectiveness. Obtaining student feedback allows the students to actively become more engaged and involved in the classroom.
8. Students Counselling & Mentoring registers.
 - a. Students Counselling & Mentors provide knowledge and counsel to help individuals through their undergraduate and graduate educational journey.
9. Various Professional activities like expert/guest lectures, seminars, workshops and conferences documentation.
 - a. Guest lectures or seminars or workshops can introduce a new concept, spurring participants to investigate it further on their own, or can demonstrate and encourage the practice of actual methods. It's a great way to teach hands-on skills because it offers participants a chance to try out new methods and fail in a safe situation.
10. Students' activities which include co-curricular and extra-curricular activities.
 - a. They supplement the academic curriculum and help in learning by doing. These activities help students to develop problem-solving, reasoning, critical thinking, creative thinking, communication, and collaborative abilities.

Frequency of Audit:

S. No.	Activity of Audit	Frequency	Outcome
1.	Syllabus Coverage	15 days	The faculty who are not completed the course syllabus as per lesson plan or in the prescribed time. So that accordingly to inform that faculty take additional hours to complete the course in the stipulated time.
2.	Course files	Every month	Course file monthly status identifies the faculty handling the course properly or not. If not, senior faculty may help them to complete the course.
3.	Faculty Personal files	Yearly	Personal file status gives the faculty growth in terms of academic, research activities. if not, encourage the faculty to attend FDP'S and for higher education
4.	Lab files	Monthly	Lab file monthly status identifies the faculty handling the lab properly or not. If not, senior faculty may help them to complete the lab
5.	Time table file	semester	Which shows the faculty work load based on faculty recruitment required or not
6.	Examinations file	yearly	Based on the results what measures or steps are required to improve the pass percentage

7.	Placements file	yearly	Which gives the data how many of the students are skilled after completion of the course. Based on that that add the new courses to the program or new course objectives to be add to the course to enhance the percentage of skilled students
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Table 7.2.1: Details of frequency of conducting academic audit and outcomes

Frequency of Course File Audit

S. No.	Content	Expected response	Frequency
1.	Lesson Plan with S. No as L. No., Topic, Teaching aid (TA)/ Methodology (TM), Text/Reference book and web references.	L: --- T: --- TA: --- TM: ----	Before the semester starts
2.	1. Course Outcomes (COs) – 6 Based on syllabus with BT level mapped 2. Course Outcomes Mapping with POs and PSOs 3. Justification for CO-PO and CO-PSO mapping	COs: --- POs: --- PSOs: --	Before the semester starts
3.	List of Gaps within & beyond the syllabus – Mapping to CO, POs and PSOs with Justification and proposed mode of addressing	Gaps: --- COs: --- POs: --- PSOs: ---	Before the semester starts
4.	CO – PO/PSO Mapping including Gaps	POs: --- PSOs: --	Before the semester starts
5.	Gap addressed – Single page report	Yes/No	Every month
6.	Lecture Notes - Unit wise including gaps	Pages: ---	Before the semester starts
7.	List of Power Point Presentations / Videos along with CD	PPTs: --- Videos: --	Every month
8.	University Question Papers (3 previous years Xerox copies) (with CO and Bloom's Taxonomy (BT) mapping)	AYs: ---	Before the semester starts
9.	Class Tests Question Papers mapped with CO and BT with solutions (Award list, Xerox copy of any 3 students answers script)	Yes/No	Every week
10.	Assignment Question Papers mapped with CO and BT with solutions (Award list, Xerox copy of any 3 students answers script)	Yes/No	Every week
11.	Internal Question Papers mapped with CO and BT (Present semester course and previous 3 years Xerox copy) with solutions (Award list, Xerox copy of any 3 students answers scripts)	Yes/No	One week before the exam
12.	Scheme of evaluation with CO and BT mapping	Yes/No	One week before
13.	Tutorial topics with evidence both material and attendance	Yes/No	Every week
14.	3 lists of slow and advanced learners – . Based on previous semester/up to to previous semester. . Based on faculty observations up to 3 weeks. . Based on 1st mid exams.	Yes/No Yes/No Yes/No	Timeline given
15.	Remedial class for slow learners – schedule and contents/materials.	Yes/No	Every week
16.	Remedial class attendance sheet with delivery record	Yes/No	Every week
17.	Advance Learners – Engagement documentation For GATE preparations Or any others (please specify)	No. No.	Every week
18.	Course & its PO Attainments (Plan & Execution)	Att: ---	After the semester results

19.	Course end survey form, filled forms and analysis	Att: ---	At the end of the semester
20.	Students feedback on faculty and Teaching Learning analysis, corrective measured planned – 3rd & 13th week	Yes/No Yes/No	After 3rd week and 13th week
21.	Observation for not attaining CO or for improvement	No. of observations	After the semester results
22.	Plan of action to improve CO attainment next time	No. of act	After the semester results
23.	Attendance register (including Theory/Tutorial) – Teacher/Course delivery record, continuous evaluation	Filled Yes/No	Every week
24.	Course file (Digital form) – all the above contents	Yes/No	After the semester results

Table 7.2.2: Details of frequency of conducting course audit

Faculty Personal File Audit:

S. No.	Content	Expected response	Frequency
1	Self-Appraisal	Yes/No	After the 2nd semester results
2	Incentives/Award/Reward/Recognitions	N/amount	Yearly
3	Member of external bodies (Journals EB / BoS / GB/ EC of Prof. Soc)	Number(N)	Yearly
4	CSI/IETE/IE/IEEE or any other	Number(N)	Yearly
5	Promotion	Yes/No	Yearly
6	FDPs Organized	Number(N)	Yearly
7	Faculty Development programs attended / resource person	6 N/ Days/ Amount	Yearly / Days
8	List of NPTEL courses certification done	6 N/ Days/ Amount	Yearly
9	Conferences/Seminars/Workshop organized	6 N/ Days/ Amount	Yearly
10	Conferences/Seminars/Workshop attended	6 N/ Days/ Amount	Yearly
11	Invited Lectures (Expert/conference/etc.)	Number(N)	Yearly
12	Responsibility in Committees - copy	Number(N)	Yearly
13	Industrial visits / Trainings / Internships organized	Number(N)	Yearly
14	Counselling/Mentoring	Number(N)	Yearly
15	Individual Time table – copy	-	Semester
16	List of Projects guided; Cover/Certificate Page	N/Amount	Yearly
17	List of In-house R&D projects; documentation	N/Amount	Yearly
18	List of Funded R&D projects; documentation	N/Amount	Yearly
19	List of Consultancy activities; documentation	N/Amount	Yearly
20	List of Instructional materials like course files, lab manuals; cover page	Number(N)	Semester
21	List of Working models / Products developed / Incubation/ Startups	N/Amount	Yearly
22	Research Publications (Paper/Poster/book/book chapters/ citations/etc.)	Number(N)	Yearly
23	List of projects received seed money	N/Amount	Yearly
24	International fellowship for advanced studies/research	N/Amount	Yearly
25	List of innovative T/L methodologies	Number(N)	Semester
26	Link of webpage/blog/google classroom/LMS etc.	Number(N)	Semester
27	Ph.D., enrolled/ awarded / guided	Number(N)	Yearly

Table 7.2.3: Details of frequency of conducting faculty personnel file audit

Academic year	Date of inspection	Committee Members		
		Member 1	Member 2	Member 3
2022-23	01-08-2022			
2023-24	12-07-2023	Dr. A Krishna Mohan, Professor of CSE & Director of SMS, JNTUK	Dr. V Jaya Prasad, Asst. Professor of Mechanical Dept., UCEK. JNTUK	-
2024-25	20-06-2024	Dr. K Padma Priya Professor of ECE & Director , Green Initiatives, JNTUK, Kakinada	Dr. G Padmaja Rani, Professor, Head of Physics, UCEK, JNTUK, Kakinada	Dr. K Padma Kumari Professor of Geology, UCEK, JNTUK, Kakinada

Figure : External Audit schedule from Affiliated University (JNTUK, Kakinada)

S.No	Description
1.	Students Admissions Details
2.	Teaching and Non-Teaching Staff Details
3.	Computers and Internet Details (Software Details)
4.	Library Facilities Details
5.	Examination Details
6.	Aadhar Biometric System Details
7.	Boys Girls Hostel Accommodation Details
8.	Sports Area Details
9.	Co-Curricular Aspects Details
10.	College Facilities Details

Table 7.2.4 Details of frequency of conducting external audit

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

- A. Improvement in placement numbers, quality Core hiring industry and pay packages (5)
- B. Improvement in Higher studies admissions for pursuing higher education (3)
- C. Improvement in number of Entrepreneurs (2)

Continuous Improvement in Placement, and Higher Studies during last 3 Assessment Years

A. Y	No. of Companies Visited	Average CTC in LPA	No of Students attended final year	No. of Students Placements	%
2021-2022	11	3.86	52	37	71.15
2022-2023	11	4.01	70	49	70.00
2023-2024	12	4.56	48	36	75.00

Placement Assessment

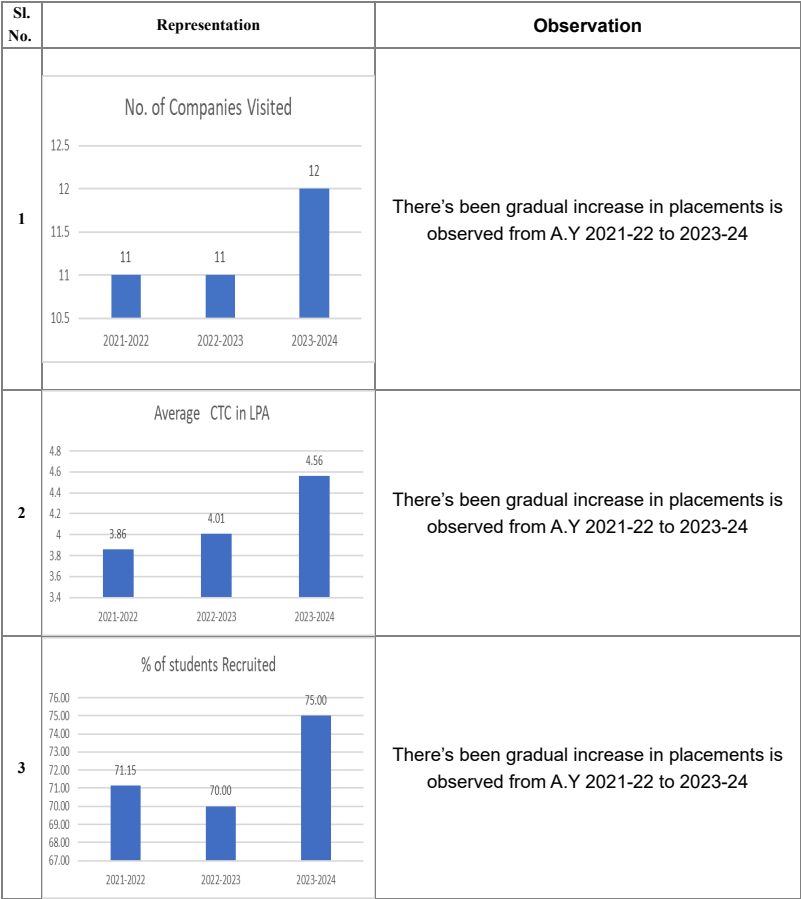


Figure 7.3. Summary of continuous improvement in placements during assessment period

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	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	No of students admitted	60	64	39
	Opening Score/Rank	48885	98405	40817
	Closing Score/Rank	176788	141472	172560
Name of the Entrance Examination for Lateral Entry or lateral entry details	No of students admitted	0	2	3
	Opening Score/Rank	0	3999	2279
	Closing Score/Rank	0	6712	5009
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		82	79	77

8 FIRST YEAR ACADEMICS (50)

Total Marks 46.60

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

Total Marks 5.0

Institute Marks : 5.0

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

Name of the faculty member	PAN No.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching load (%)			Currently Associated (Yes / No)	Nature Of Association (Regular / Contract)	Date Of leaving(In case Currently Associate is 'No')
							CAY	CAYm1	CAYm2			
M V RAMARAJU	BOVPM9811B	MA	27/07/2016	ELT	Assistant Professor	20/06/2022	100	100	100	Yes	Regular	
Dr.G. BHASKAR	BEVPG0603R	M.Sc. (Mathematics) and PhD	20/02/2013	Mathematics	Professor	17/06/2019	100	100	100	Yes	Regular	
NAGURU MEENAKSHI	BFGPP1362E	M.Sc	01/07/2005	Mathematics	Associate Professor	04/07/2017	100	100	100	Yes	Regular	
RAYAPATI RAJESH	FVRPK6177F	M.Sc	01/06/2011	Mathematics	Assistant Professor	26/07/2021	100	100	100	Yes	Regular	
ISIREDDY SEETU	ADKPI8380A	M.Sc	01/04/2008	Physics	Associate Professor	01/07/2019	100	100	100	Yes	Regular	
I ANIL BABU	AWUPN9222H	M.Tech	09/05/2017	EEE	Assistant Professor	13/06/2024	100	100	100	Yes	Regular	
G. MASTAN RAO	BUSPG0873Q	M.Tech	01/02/2014	EEE	Assistant Professor	11/11/2019	100	100	100	Yes	Regular	
K. VIJAY KUMAR	CGIPK1737L	M.Tech	02/02/2015	Mechanical Engineering	Assistant Professor	17/06/2019	100	100	100	Yes	Regular	
S.K MERAVAL	EIYPS1078E	M.Tech	01/08/2018	Mechanical Engineering	Assistant Professor	01/09/2021	100	100	100	Yes	Regular	
K RAMU	EMNPK7965R	M.Tech	01/08/2018	Civil Engineering	Assistant Professor	01/09/2018	100	100	100	Yes	Regular	
K SANJEEV RAO	EQVPR2995J	M.Tech	31/12/2013	ECE	Assistant Professor	07/03/2022	100	100	100	Yes	Regular	
K BHASKAR RAO	BXPPK3809J	M.Tech	01/12/2014	ECE	Assistant Professor	23/07/2022	100	100	100	Yes	Regular	
B CHINNABABU	EYIPB6189R	M.Tech	01/08/2023	Agricultural Engineering	Assistant Professor	21/08/2023	100	100	100	Yes	Regular	
N.SAI SRAVYA	ALAPN1697B	MA	01/06/2024	ELT	Assistant Professor	31/07/2024	100	0	0	Yes	Regular	
K CHANDRA S	BUWPK5171K	M.Sc	01/06/2006	Physics	Associate Professor	01/06/2016	100	100	100	Yes	Regular	
N.VENKATAS	ACNPN3591L	M.Sc	02/05/1983	Chemistry	Assistant Professor	02/06/2022	100	100	100	Yes	Regular	
SHAIK KARIM	BWOPS2472M	M.Sc	04/08/2009	Chemistry	Associate Professor	20/07/2015	100	100	100	Yes	Regular	
G KOTESHWA	APJPG4923L	M.Tech	01/02/2013	CSE	Associate Professor	10/07/2020	100	100	100	Yes	Regular	
DUGGENPUDU	APKPD6490A	M.Tech	02/12/2013	CSE	Assistant Professor	01/06/2019	0	100	100	No	Regular	20/06/2024
KOTHAPALLI CHANDRA	DZBPK8523B	MA	24/06/2013	English	Associate Professor	01/07/2021	100	100	100	Yes	Regular	
S.PARDHASARATHY	ETWPS8361D	M.Tech	02/02/2017	CSE	Assistant Professor	01/06/2019	100	100	100	Yes	Regular	
A.SIREESHA	BSEPA6185R	M.Tech	01/03/2021	CSE	Assistant Professor	01/07/2021	100	100	100	Yes	Regular	
G MADHAVI	AXRPG1860E	M.Tech	01/08/2019	Civil Engineering	Assistant Professor	03/01/2020	100	100	100	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)	330	22	15	5
2023-24(CAYm1)	270	22	12	5
2024-25(CAY)	270	22	12	5
Average	290	22	13	5

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

Total Marks 4.33

Institute Marks : 4.33

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	1	19	16	3.00
2023-24	1	20	13	5.00
2024-25	1	21	13	5.00

Average Assessment: 4.33

8.3 First Year Academic Performance (10)

Total Marks 7.27

Institute Marks : 7.27

Academic Performance	2024-25	2023-24	2022-23
Mean of CGPA or mean percentage of all successful students(X)	7.08	7.34	8.15
Total Number of successful students(Y)	76.00	52.00	42.00
Total Number of students appeared in the examination(Z)	85.00	52.00	42.00
API [X*(Y/Z)]	6.33	7.34	8.15

Average API[(AP1+AP2+AP3)/3] : 7.27

Assessment [1.5 * Average API] : 7.27

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. Attainment of Course outcomes of First year courses**8.4.1. Describe the assessment process used to gather the data upon which the evaluation of course outcomes of first year is done****A. Evaluation of Course Outcomes of first year Assessment Processes (1)****B. The Relevance of Assessment tools used (4)****Figure 8.4.1: Flowchart for computing COs attainment (Rubrics) (Annexed Separately)**

Assessment tools are categorized into two types:

direct methods and indirect methods.

- Direct Attainment methods display the students knowledge and skills based on their performance in the continuous internal assessment examinations, assignments, semester examinations, seminars, and class room and laboratory tests. These methods provide a sample of what students know and/or can do and provide strong evidence of student learning.
- Indirect Attainment methods such as surveys and interviews ask the stakeholders to reflect on student's They assess the opinions or thoughts of different stakeholders about the graduate's knowledge or skills.

Direct Attainment Process:

Direct attainment of COs can be determined from the performances of students in all the relevant assessment instruments. Mainly, it is divided into two categories, and they are

- Internal Assessment
- External Assessment

Internal Assessment

30% of the weightage to internal assessments and

External Assessment / University Assessment/ Semester End Exam

70% weight age to external examination assessment are assigned.

Internal Assessment methods and their description are given in the following table

S. No	Internal Assessment Method	Description
1	Mid Examinations	As per the university regulations, two mid examinations will be conducted for every course in a semester. Each mid examination is conducted after every 2 months and is useful to assess the student performance at the middle and end of the semester. In internal examinations questions are given to cover the respective COs by following the blooms taxonomy levels. As the information on performance in mid examination of each student for individual COs is available, the department can determine attainment of each course outcome separately through mid examinations. Mid examination to be conducted for 15 marks.
2	Quiz (online)	Multiple Choice Questions (of 10 marks) based examination system provides an easy to use environment for both test conductors and students appearing for examination. This quiz (online) examination is conducted by the university and department has no provision to set the question paper and the department will have access only to the marks obtained by each student in the course. As the information on performance in quiz (online) examination on each student in individual COs is not available, the attainment value is taken uniformly for the respective COs.
3	Assignments	The assignment is a qualitative performance assessment tool designed to assess students' knowledge of engineering practices, framework, and problem solving. In this regulation, a total of 2 assignments will be given to the students. Assignments (of 5 marks) will be given by the faculty members themselves. Hence assignments are given to cover the entire COs. As the information on performance in assignments on each student in individual COs is available, the department can determine the attainment
Laboratory		
4	Internal Lab Examinations	Internal lab exam will be conducted after completion of all the experiments for 15 marks for a duration of 3 Hours. The students are asked to submit the record and choose the any experiment to perform in the internal exam viva voice will be asked by the internal examiner. As per the guidelines of the affiliated university mid examinations are evaluated for 15 marks.
5	External Lab Examinations	At the end of the semester external lab examinations will be conducted, as per the affiliated university JNTU, Kakinada schedule. As per the guidelines of the affiliated university mid examinations are evaluated for 35 marks.
External Assessment		
6	Lab external	At the end of the semester lab external will be conducted , as per the affiliated University .
7	Semester End Exam	Will be conducted as per JNTUK University schedule

Weightage distribution of internal assessment

30% weightage of internal assessment is subdivided among all the internal assessment tools as follows

- Mid Examinations - 15 Marks
- Quiz Exam- 10 Marks
- Assignments - 5Marks

Frequency of conducting internal assessment

S. No.	Internal Assessment Method	Frequency
1	Mid Examinations	Two mid exams are conducted for every course in a Semester. Each mid exam is conducted after every two months duration
2	Assignments	Total of two assignments are given. Assignment 1 is given for the syllabus related to mid1 and Assignment-2 is given for the syllabus related to mid -2.
3	Quiz Examinations	Two Online exams are conducted per semester along with mid exams.
4	Lab internal	Lab internal exam will be conducted after completion of all the experiments for 15 marks for a duration of 3 Hrs

Table 8.4.1.2 The frequency of assessment.

External Assessment:

- External assessment is determined based on the performance of the students in the exams conducted by the JNTU, Kakinada.
- For the detailed assessment division, table indicates the subdivision of assessment tools that are related to the individual CO.

Course Attainment for the course: Data Structure

(Internal attainment, University attainment, indirect feedback, Overall attainment)

Internal Attainment

Question Number	M1.1	M1.2	M1.3	M2.1	M2.2	M2.3	Q1	Q2	A1	A2
Max Marks	5	5	5	5	5	5	10	10	5	5
Satisfactory mark as set target	3	3	3	3	3	3	4	4	3	3
No. of students scored above the set target	46	37	40	31	23	32	18	19	76	73
No. of students attempted	66	61	66	56	42	50	76	76	76	73
% Students scored above the set target	69.70	60.66	60.61	55.36	54.76	64.00	2.68	25.00	100	100

CO Attainment Level	M1.1	M1.2	M1.3	M2.1	M2.2	M2.3	Q1	Q2	A1	A2	Overall
CO 1	1	-	-	-	-	-	1	-	1	-	1
CO 2	-	1	-	-	-	-	1	-	1	-	1
CO 3	-	-	1	1	-	-	1	1	1	1	1
CO 4	-	-	-	-	1	-	-	1	-	1	1
CO 5	-	-	-	-	-	1	-	1	-	1	1

Semester End Attainments:

Max Marks	70	
Satisfactory grade asset target	28	
No. of students scored target grade and above	56	
No. of students attempted	71	
% Students scored target grade and above	78.87	
CO	Attainment Level	Overall
CO1	2	2
CO2	2	2
CO3	2	2
CO4	2	2
CO5	2	2
Condition	Attainment Level	
>70% students score target grade	3	
60% - 69% students score target grade	2	
<50 - 59% students score target grade	1	

Indirect Attainment (Course End Feedback)

Course Name : Data Structure	
CO. No	Indirect Attainment
CO1	2.68
CO2	2.42

CO3	2.58
CO4	2.36
CO5	2.56
Indirect Attainment (Average)	2.52

Overall Attainment

CO Attainment	Internal Examination (I)	University Examination (U)	Direct Attainment (D) (0.3I+0.7U)	CO Feedback (F)	Overall (0.8D+0.2F)
CO 1	1	2	1.7	2.68	1.90
CO 2	1	2	1.7	2.42	1.84
CO 3	1	2	1.7	2.58	1.88
CO 4	1	2	1.7	2.36	1.83
CO 5	1	2	1.7	2.56	1.87
Overall Course Attainment					1.86

PO Attainment

Subject	Data Structures						2023 Admitted Batch							Reg: R23	
Final CO attainment	CO No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
1.9	C126.1	3	2	2	2	3	-	-	-	-	-	-	3	3	2
1.84	C126.2	3	3	3	3	2	-	-	-	-	-	-	2	3	3
1.88	C126.3	3	3	3	2	2	-	-	-	-	-	-	3	3	3
1.83	C126.4	3	3	3	2	2	-	-	-	-	-	-	2	3	2
1.87	C126.5	3	3	3	3	3	-	-	-	-	-	-	2	3	3
	C126	3	2.8	2.8	2.4	2.4	-	-	-	-	-	-	2.4	3	2.6
PO FINAL		2.10	1.96	1.96	1.68	1.68	-	-	-	-	-	-	1.68	2.10	1.82
TARGET		2.15	1.87	2.01	1.95	1.80	-	-	-	-	-	-	1.70	2.19	1.78
PO STATUS		Yes	Yes	Yes	Yes	Yes	-	-	-	-	-	-	Yes	Yes	Yes

Observations:**1. Target is achieved****Plan of action:****1. For the next academic year plan to increase course target value 5%****Course Attainment for Engineering Chemistry Lab****Internal Attainment**

Experiments	Internal Examination	Record	Day to Day Evaluation
Max Marks	10	10	10
Satisfactory mark asset target	8	8	8
No. of students scored above set target	63	76	76
No. of students attempted	76	76	76
% Students scored above set target	82.96	100	100
CO Attainment Level	Internal Examination	Record	Day to Day Evaluation
CO 1	3	3	3
CO 2	3	3	3
CO 3	3	3	3
CO 4	3	3	3
CO 5	3	3	3
Condition		Attainment Level	
>85% students score target grade		3	
65% - 85% students score target grade		2	
<65% students score target grade		1	

External Attainment:

Max Marks:	70
Satisfactory mark as set target	42

No. of students scored target mark and above		76	
No. of students attempted		76	
% Students scored target grade and above		100%	
CO	Attainment Level		Overall
CO1	3		3
CO2	3		3
CO3	3		3
CO4	3		3
CO5	3		3
Condition		Attainment Level	
>70% students score target grade		3	
60% - 69% students score target grade		2	
50 - <59% students score target grade		1	

Indirect Feedback (Course End Feedback)

Engineering Chemistry Lab	
CO. No	Attainment
CO1	2.41
CO2	2.55
CO3	2.57
CO4	2.69
CO5	2.53
Indirect Attainment (Average)	2.64

Overall Attainment

CO Attainment	Internal Examination(I)			University Examination (U)	Direct Attainment (0.7I+0.3U)	CO Feedback (F)	Overall 0.8D+0.2F
	D –D	R	Int				
CO 1	3	3	3	3	3	2.41	2.88
CO 2	3	3	3	3	3	2.55	2.91
CO 3	3	3	3	3	3	2.57	2.91
CO 4	3	3	3	3	3	2.69	2.94
CO 5	3	3	3	3	3	2.53	2.91
Overall Course Attainment					3	2.64	2.93

PO Attainment

CLASS	B.Tech. (CSE) I Year I Semester		AY	2021-22
Name of the Course & Code	Engineering Chemistry Lab	Name of the Faculty	Mr. Sk Karimulla	

CO-PO Mapping:

Subject	Engineering Chemistry Lab						2023 Admitted Batch								Reg: R23	
Final CO attainment	CO No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	
	2.88	C127.1	3	2	2	2	-	-	-	2	2	-	2	3	2	
	2.91	C127.2	3	2	2	2	2	-	-	2	2	-	2	3	2	
	2.91	C127.3	3	2	3	2	2	-	-	2	2	-	2	3	2	
	2.94	C127.4	3	2	2	2	-	-	-	2	2	-	2	3	2	
	2.91	C127.5	3	2	3	2	2	-	-	-	2	2	-	2	2	
		C127	3	2	2.4	2	2	-	-	-	2	2	-	2	3	2
PO FINAL		2.91	1.94	2.33	1.94	1.94	2.91	1.94	-	1.94	1.94	-	1.94	2.91	1.94	
TARGET		2.15	1.87	2.01	1.95	1.80	1.86	1.78	-	1.76	1.71	-	1.70	2.19	1.78	
PO STATUS		Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	Yes	-	Yes	Yes	Yes	

Observations:

1. Target is achieved

Plan of action:

1. For the next academic year plan to increase course target value

Rubrics for CO Assessment

- Percentage of marks obtained by each student in each assessment tool is calculated.
- Course Outcome will be achieved by the student if he/she scores more than 45% of marks in the corresponding assessment tool related to that CO.
- Level is determined for each CO from each tool after measuring the percentage of students scoring
- more than set target percentage of marks based on rubrics as shown in table 8.4.1.5

S No	Level	Rubrics
1	3	If more than 70% of the students score above set target level
2	2	In between 60-69% of the students score above set target level
3	1	If less than 50-59% of the students score above set target level

The overall CO level is determined by the weighted average of levels of attainment of that CO from all the internal and external assessment tools Overall CO Level = (0.15* level from Mid exam) + (0.10*level from quiz) + (0.05*level from assignment) + (0.7*level from University End Examination)

The CO attainment levels for all the courses in the program are to be determined using the same procedure as described above.

Sample CO – PO Data Structure Course

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	2	2	3	-	-	-	-	-	-	3
CO2	3	3	3	3	2	-	-	-	-	-	-	2
CO3	3	3	3	2	2	-	-	-	-	-	-	3
CO4	3	3	3	2	2	-	-	-	-	-	-	2
CO5	3	3	3	3	3	-	-	-	-	-	-	2
Overall	3.00	2.80	2.80	2.40	2.40	-	-	-	-	-	-	2.40

Table 8.4.1.6 Sample CO – PO mapping for a course

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

Institute Marks : 5.00

8.4.2. Record the attainment of Course Outcomes of all first-year courses**Measuring Course Outcomes attained through University Examinations (5)**

Target may be stated in terms of percentage of students getting more than the university average marks or more as selected by the Program in the final examination. For cases where the university does not provide useful indicators like average or median marks etc., the program may choose an attainment level on its own with justification. *(Refer 3.2.2 for further details)*

B Tech (CSE) I Year Semester I Overall Attainments 2023-2024

Course Code	Courses	Direct Course Attainment	Indirect Course Attainment	Overall Course Attainment
C111	Communicative English	2.76	2.53	2.71
C112	Engineering Chemistry	1.94	2.55	2.06
C113	Linear Algebra & Calculus	2.00	2.57	2.11
C114	Basic Civil And Mechanical Engineering	2.00	2.58	2.12
C115	Introduction To Programming	1.82	2.56	1.97
C116	Communicative English Lab	2.70	2.49	2.66
C117	Engineering Chemistry Lab	3.00	2.55	2.91
C118	Engineering Workshop	3.00	2.62	2.92
C119	Computer Programming Lab	3.00	2.55	2.91
C1110	Health and Wellness , YOGA and Sports	3.00	2.48	2.89

Table 8.4.2.1 Overall CO attainment for semester – I of the academic year 2023-2024

B Tech (CSE) I Year Semester II Overall Attainments 2023-2024

Course Code	Courses	Direct Course Attainment	Indirect Course Attainment	Overall Course Attainment
C121	Engineering Physics	2.64	2.54	2.62
C122	Differential Equations And Vector Calculus	2.64	2.53	2.62
C123	Basic Electrical And Electronics Engineering	2.70	2.57	2.67
C124	Engineering Graphics	2.30	2.63	2.37
C125	It Workshop	3.00	2.63	2.93
C126	Data Structures	1.70	2.52	1.86
C127	Engineering Physics Lab	3.00	2.63	2.93
C128	Electrical & Electronics Engineering Workshop	3.00	2.62	2.92
C129	Data Structures Lab	2.70	2.60	2.68
C1210	NSS/ NCC/Scouts & guides Community Services	3.00	2.47	2.89

Table 8.4.2.3 Direct CO attainment for semester – I & II of the academic year 2023-24

B Tech (CSE) I Year Semester I & II Direct Attainments 2023-2024

Course Code	Courses	CO1	CO2	CO3	CO4	CO5	AVG
C111	Communicative English	3.00	3.00	3.00	3.00	3.00	3.00
C112	Engineering Chemistry	2.00	2.00	2.00	2.00	2.00	2.00
C113	Linear Algebra & Calculus	2.00	2.00	2.00	2.00	2.00	2.00
C114	Basic Civil And Mechanical Engineering	2.00	2.00	2.00	2.00	2.00	2.00
C115	Introduction To Programming	2.00	2.00	2.00	2.00	2.00	2.00

C116	Communicative English Lab	2.70	2.70	2.70	2.70	2.70	2.70
C117	Engineering Chemistry Lab	3.00	3.00	3.00	3.00	3.00	3.00
C118	Engineering Workshop	3.00	3.00	3.00	3.00	3.00	3.00
C119	Computer Programming Lab	3.00	3.00	3.00	3.00	3.00	3.00
C1110	Health and Wellness , YOGA and Sports	3.00	3.00	3.00	3.00	3.00	3.00

Course Code	Courses	CO1	CO2	CO3	CO4	CO5	AVG
C121	Engineering Physics	2.00	3.00	3.00	2.00	2.00	2.40
C122	Differential Equations And Vector Calculus	2.00	2.00	3.00	2.00	2.00	2.20
C123	Basic Electrical And Electronics Engineering	2.00	2.00	2.00	2.00	2.00	2.00
C124	Engineering Graphics	2.30	2.30	2.30	2.30	2.30	2.30
C125	It Workshop	3.00	3.00	3.00	3.00	3.00	3.00
C126	Data Structures	2.00	2.00	2.00	2.00	2.00	2.00
C127	Engineering Physics Lab	3.00	3.00	3.00	3.00	3.00	3.00
C128	Electrical & Electronics Engineering Workshop	3.00	3.00	3.00	3.00	3.00	3.00
C129	Data Structures Lab	2.70	2.70	2.70	2.70	2.70	2.70
C1210	NSS/ NCC/Scouts & guides Community Services	3.00	3.00	3.00	3.00	3.00	3.00

Table 8.4.2.3 Direct CO attainment for semester – I & II of the academic year 2023-2024

B Tech (CSE) I Year Semester I & II Indirect Attainments 2023-2024

Course Code	Courses	CO1	CO2	CO3	CO4	CO5	AVG
C111	Communicative English	2.63	2.45	2.52	2.45	2.58	2.53
C112	Engineering Chemistry	2.65	2.47	2.54	2.45	2.64	2.55
C113	Linear Algebra & Calculus	2.67	2.52	2.57	2.48	2.61	2.57
C114	Basic Civil And Mechanical Engineering	2.69	2.52	2.60	2.48	2.59	2.58
C115	Introduction To Programming	2.61	2.58	2.48	2.53	2.61	2.56
C116	Communicative English Lab	2.65	2.57	2.43	2.61	2.51	2.55
C117	Engineering Chemistry Lab	2.41	2.55	2.57	2.69	2.53	2.55
C118	Engineering Workshop	2.37	2.59	2.80	2.78	2.57	2.62
C119	Computer Programming Lab	2.41	2.55	2.57	2.69	2.53	2.55
C1110	Health and Wellness , YOGA and Sports	2.49	2.30	2.49	2.62	2.47	2.47

Course Code	Courses	CO1	CO2	CO3	CO4	CO5	AVG
C121	Engineering Physics	2.64	2.52	2.53	2.44	2.59	2.54
C122	Differential Equations And Vector Calculus	2.67	2.45	2.52	2.44	2.58	2.53
C123	Basic Electrical And Electronics Engineering	2.50	2.53	2.58	2.50	2.61	2.54
C124	Engineering Graphics	2.55	2.51	2.82	2.73	2.55	2.63
C125	It Workshop	2.55	2.51	2.82	2.73	2.55	2.63
C126	Data Structures	2.68	2.42	2.58	2.36	2.56	2.52
C127	Engineering Physics Lab	2.53	2.49	2.82	2.73	2.57	2.63
C128	Electrical & Electronics Engineering Workshop	2.55	2.51	2.75	2.73	2.55	2.62
C129	Data Structures Lab	2.47	2.51	2.78	2.71	2.51	2.60
C1210	NSS/ NCC/Scouts & guides Community Services	2.48	2.31	2.418	2.60	2.48	2.45

Table 8.4.2.4 Indirect CO attainment for semester – I & II of the academic year 2023-2024

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

Total Marks 20.00

8.5.1 Indicate results of evaluation of each 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
C111	2.52	2.32	PO3	PO4	PO5	PO6	PO7	PO8	PO9	2.71	PO11	1.94
C112	2.11	1.39	1.97	1.69	1.41	1.41	1.41	PO8	PO9	1.41	PO11	1.55
C113	2.11	1.83	1.41	1.69	1.41	PO6	PO7	1.41	1.41	PO10	1.41	1.69
C114	2.12	1.83	1.97	1.69	1.41	1.41	2.1	PO8	PO9	1.41	PO11	1.69
C115	2.11	1.97	1.58	PO4	PO5	PO6	PO7	PO8	PO9	1.41	PO11	PO12
C116	2.30	2.30	PO3	PO4	PO5	PO6	PO7	PO8	2.30	2.66	PO11	2.33
C117	2.91	1.94	2.33	1.94	1.94	2.91	1.94	PO8	1.94	1.94	PO11	1.94
C118	2.92	1.95	2.92	1.95	1.95	PO6	1.95	PO8	1.95	1.95	PO11	1.95
C119	2.91	2.52	2.52	2.72	2.52	PO6	PO7	PO8	PO9	2.52	PO11	1.94
C1110	1.93	1.93	PO3	1.93	PO5	2.32	2.71	2.42	2.90	1.93	PO11	PO12
C121	2.43	1.76	PO3	2.15	2.10	PO6	PO7	PO8	PO9	1.94	PO11	2.09
C122	2.91	2.91	PO3	2.91	2.91	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C123	2.91	2.10	PO3	2.91	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C124	2.37	1.84	PO3	2.37	2.37	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C125	2.93	2.28	PO3	2.93	2.93	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C126	2.10	1.96	1.96	1.68	1.68	PO6	PO7	PO8	PO9	PO10	PO11	1.68
C127	2.93	2.54	2.93	2.93	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C128	2.92	2.53	2.92	2.92	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C129	2.68	2.32	2.68	2.32	2.32	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C1210	1.94	1.94	2.42	PO4	PO5	2.90	2.32	2.42	2.42	2.26	1.94	2.32

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	2.50	2.11	2.30	2.30	2.08	2.19	2.07	2.08	2.15	2.01	1.68	1.92
Direct Attainment	2.50	2.11	2.30	2.30	2.08	2.19	2.07	2.08	2.15	2.01	1.68	1.92
CO Attainment	2.50	2.11	2.30	2.30	2.08	2.19	2.07	2.08	2.15	2.01	1.68	1.92

PSOs Attainment:

Course	PSO1	PSO2
C111	2.91	2.71
C112	2.11	1.69
C113	2.11	1.69
C114	2.12	1.55
C115	2.11	1.41
C116	2.48	2.66
C117	2.94	1.94
C118	2.92	2.34
C119	2.91	2.72
C1110	PSO1	1.93
C121	2.43	2.23
C122	2.91	1.66
C123	2.91	1.41
C124	2.37	2.05
C125	2.93	2.54
C126	2.10	1.82
C127	2.93	1.95
C128	2.92	1.95
C129	2.68	2.68
C1210	1.74	PSO2
PSO Attainment	2.55	2.05

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	2.55	2.05

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	2.15	2.50	Target is Achieved.
Action 1: Plan to conduct technical talks to increase engineering knowledge further. Action 2: Plan to conduct seminars to increase engineering knowledge. Action 3: Plan to conduct subsequent doubts clarifying session / Study Hours beyond the regular planned classes. Action 4: Plan to arrange bridge courses before the semester begins for 1st year subjects.			
PO 2 : Problem Analysis			
PO 2	1.87	2.11	Target is Achieved
Action 1: It is proposed to increase the target level in the next academic year. Action 2: Assignments will be framed to increase the problem-solving capabilities further. Action 3: Increase the problem-solving capabilities by giving the needed writing work.			
PO 3 : Design/development of Solutions			
PO 3	2.01	2.30	Target is Achieved
Action 1: Plan to conduct a web and user interface development workshop. Action 2: Projects will be given to students to increase their design capabilities.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.95	2.30	Target is Achieved
Action 1: Students will be motivated to participate in national and international conferences. Action 2: It is proposed to increase the target level in the next academic year.			
PO 5 : Modern Tool Usage			
PO 5	1.80	2.08	Target is Achieved
Action 1: AMR Hackmania will be conducted in the future. Action 2: Workshops will be conducted to improve modern tool usage capabilities.			
PO 6 : The Engineer and Society			
PO 6	1.86	2.19	Target is Achieved
Action 1: Students will be encouraged to participate in a hackathons to solve problems related to societal needs. Action 2: Students are to be given awareness of real-world problems so that they will be motivated to develop any application that will be useful for society.			
PO 7 : Environment and Sustainability			
PO 7	1.78	2.07	Target is Achieved
Action 1: Encouraging the students to participate in conferences, seminars, and workshops Action 2: Training sessions need to be conducted to build confidence in the profession's trustworthiness and provide greater transparency about handling their affairs.			
PO 8 : Ethics			
PO 8	1.75	2.08	Target is Achieved
Action 1: Internship talk on skill development Action 2: Students are to be trained on communication skills so that they can convey their ideas, which will be helpful to society. Action 3: Community service projects will be assigned to identify major societal problems and apply students' engineering knowledge to develop effective solutions for the betterment of society.			
PO 9 : Individual and Team Work			
PO 9	1.76	2.15	Target is Achieved
Action 1: Encouraging the students to participate in conferences, seminars, and workshops Action 2: Training sessions need to be conducted to build confidence in the profession's trustworthiness and provide greater transparency about handling their affairs. Action 3: Students were involved in teamwork, such as project work and the conduct of events. Action 4: students are encouraged to develop the habit of breaking down tasks, assigning responsibilities, and setting timelines when working in a team			
PO 10 : Communication			
PO 10	1.71	2.01	Target is Achieved
Action 1: Students are to be trained on communication skills so that they can convey their ideas, which will be helpful to society. Action 2: Students were guided for technical seminars and internship presentations on communication skills. Action 3: It is proposed to increase the target level in the next academic year.			
PO 11 : Project Management and Finance			
PO 11	1.50	1.68	Target is Achieved
Action 1: Encourage the students to participate in funded agency projects to learn about project management and finance management. Action 2: Training sessions have to be conducted by industrial experts related to project management and finance and to discuss different case studies pertaining to the application of leadership qualities and managing finance in multi-disciplinary environments. Action 3: Project exhibitions will be held to encourage the students to exhibit their project management skills. Action 4: It is proposed to increase the target level in the next academic year.			
PO 12 : Life-long Learning			
PO 12	1.70	1.92	Target is Achieved

Action 1: A technical talk on the Internet of Things will be organized. Action 2: Students will be encouraged to register and complete online courses from Coursera, Udemy and NPTEL.

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

PSOs	Target Level	Attainment Level	Observations
PSO 1 : To apply domain knowledge and expertise for enhancing research capability to transform innovative ideas into reality.			
PSO 1	2.19	2.55	Target is Achieved
Action 1: Expert sessions on duties and responsibilities of Engineers in the society Action-2: Exposure to professional approach in transforming ideas in hackathons			
PSO 2 : To prepare students to undertake careers involving problem solving using computer science and technologies			
PSO 2	1.78	2.05	Target is Achieved
Action -1:Planning to conduct online guest lecture Action -2:Remedial classes are arranged for the course and to build the confidence of the students in solving the programs			

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

9.1 Mentoring system to help at individual level (5)

Total Marks 5.00

9.1. Mentoring system to help at individual level

A. Details of Mentoring system that has been developed for the students for various purpose (5)

Counselling / Mentoring

Counselling is an important part of all educational institutions. In this practice, students, their loved ones, and even staff can resolve outstanding negative situations and improve upon positive aspects. Student mentoring is an integral part of the organization. A mentor is the teacher who shares his knowledge and experiences while bringing the students (mentees) up the ranks. The system of mentoring is followed in every department with the primary objective of providing reliable and constant support to the mentees in order to excel in both personal and professional life.

Objectives of the Mentoring System

1. To help students understand the challenges and opportunities present in the institute and develop a smooth transition
2. To counsel the students on how to cope with academic, non-academic, and personal problems
3. To provide positive role models to undergraduate students of the Institute
4. To proactively identify problems with the students and bring them to the attention of the authorities concerned.

Figure 9.1.1 Levels in mentoring system (Annexed Separately)

Benefits of the Mentoring System

- It supports mentees advancement in research activity, conference presentations, publications, and pedagogical skills.
- Mentoring provides resources for dealing with stressful or difficult periods in their graduate careers.
- Mentors, with their experiences and networks, help improve the students' prospects of securing professional placement.
- Mentoring can help the students lower their stress and build confidence.
- Constant interaction with a mentor will promote students' engagement in the field through active participation.

Types of Mentoring Professional Guidance

The departments are well equipped with knowledgeable human resources in the form of faculty members who, by keeping themselves abreast of the latest developments, offer guidance to prospective professionals in addition to classroom teaching.

Career Advancement

The Training and Placement Cell has been active not only in arranging campus recruitment drives but also in offering awareness and training for the students.

Coursework

The mentor and members of the faculty handling different courses interact with students to clarify all their doubts in their respective courses.

Lab-Specific

Each of the lab sessions is handled by two teachers in order to have special care for the students while the experiments are being handled. A demonstrative presentation is given by the teacher concerned before every experiment. The laboratory records are evaluated after the experiment is held. In other words, there is active involvement of the members of the faculty at the pre- experiment stage, at the time of the experiment, and after the experiment.

Mentor's Roles and Responsibilities:

1. Mentors serve as positive role models, encouraging and motivating students to achieve their target or goal.
2. Motivate and guide the students in all academic, co-curricular, and extra-curricular activities.
3. Mentors maintain records of mentees.
4. Collect information regarding weak students from the subject teachers on the basis of their previous results, various other skills, having less attentiveness, etc.
5. The record of counselling and mentoring is maintained in a file or book, which is updated on a regular basis.
6. Mentors submit a report to the HOD, and after approval by the Principal remedial actions are sought for improvement.
7. monitors the student's readiness for a personal interview, group discussion, technical and non- technical support (including resume making, dressing sense, skills, etc.)
8. Encourages and motivates the students to attend all the classes, expert lectures, and other technical sessions for better performance in examinations, contests, and placement.

List of mentors and mentees

Sample List of Department of Computer Science & Engineering

S.No	Name of the Mentor	Year	Student Roll Number		No Of Students
			From	To	
1	Dr. G. SAMBA SIVA RAO	-	-	-	-
2	Dr. INAGANTI SHYLAJA	I	23HM1A0501	23HM1A0517	15
3	Dr. PADIGALA SURESH	I	23HM1A0519	23HM1A0535	15
4	Dr. GODAGALA MADHAVA RAO	I	23HM1A0536	23HM1A0554	15
5	NAGAM AANJANEYULU	I	23HM1A0556	23HM1A0575	15
6	AREKATLA MADHAVA REDDY	I	23HM1A0576	23HM1A0585	10
7	AREKATLA JAGANMOHAN REDDY	II	22HM1A0502	22HM1A0520	15
8	LANKALA MOUNIKA	II	22HM1A0521	22HM1A0539	15
9	VANAPAMULA VEERABRAHMACHARI	II	22HM1A0540	23HM5A0505	15
10	MOTUPALLI MALLIKARJUNA RAO	III	21HM1A0501	21HM1A0519	15
11	AREMANDLA SAI PUJITHA	III	21HM1A0520	21HM1A0534	15
12	CHEVULA REKHA	III	21HM1A0535	21HM1A0542	8
13	SHAIK GUNTUR MAHABUB SUBHANI	IV	20HM1A0501	20HM1A0517	15
14	Mr. M. ANAND KUMAR	IV	20HM1A0518	20HM1A0533	15
15	BUTUKURU ROJALAKSHMI	IV	20HM1A0534	20HM1A0549	15

16	GUDIPATI MOHAN SINGH YADAV	IV	20HM1A0550	21HM5A0501	7
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*Table-9.1.1 List of Mentors – Mentees***Mentoring Process**

- Students are assigned to a counsellor or mentor whose role is to be a point of contact for advice and guidance.
- Mentors will listen, advise, and refer mentees to higher authorities if necessary.
- It provides reflection and support for the students' academic development while they are doing their course. It promotes other activities and experiments related to the career and personal development of students.

Figure 9.1.2: Sample Mentoring Process of a student (Annexed Separately)

- Provides guidance on career development.
- Helps the students settle down in their respective courses.
- Students requiring additional help are identified, and their progress is monitored regularly.
- In the mentoring system, a proctor diary is maintained for each student, where the following details are provided:
 - Personal Information
 - Previous Record
 - Academic Performance in Competitive Examinations
 - Details of Internship and Industrial Training Scholarships Received
 - Co-curricular and extra-curricular activities
 - The mentors meet the students periodically and monitor their performance and activities. Guidance regarding the lagging issues is provided. Occasionally, a proctor meeting is conducted with the parents based on the requirement.

Impact of the Mentor Teaching-Learning System

- Reduction in absenteeism.
- Improvement in overall performance.
- Improvement in personality.
- Increased participation in co-curricular activities.
- Improvement in behavior and attitudes
- Improved interpersonal relationships with elders and peers.
- Becoming a responsible citizen
- Improvement in the performance of weak students.
- Increased campus selection ratio.
- Receiving awards and recognition

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

Total Marks 10.00

9.2. Feedback analysis and reward or corrective measures taken, if any

A. Methodology beeing followed for analysis of feedback and its effectiveness (5)

Feedback was collected for all courses: YES

Feedback collection process: Feedback Form (Hardcopy)

Eligibility of the percentage of students to give feedback: 100%

Introduction

The teaching-learning system followed by any educational institution needs continuous refinement. To facilitate this process of continuous refinement, the institution has adopted a feedback system that takes suggestions from students in each program. This eventually helps to fine-tune the teaching-learning process and the curriculum. The institution follows a well-defined and formal feedback system. The feedback system has been identified as one of the important processes in our quality management system.

Specify the feedback collection process.

- Collecting feedback for all the courses/faculty that are being taught, twice in a semester
- Once the feedback collection process is completed, the reports are generated.
- The consolidated report containing feedback percentage for each faculty is sent to the respective heads of the departments, and the information is circulated to the faculty of the department for necessary action.

Sample Feedback From

Figure 9.2.2: Format of Student Feedback on Faculty(Annexed Separately)

Specify the feedback analysis process:

- The feedback analysis is done manually.
- The feedback collected from students is first analyzed at the level of the HoD and then at the level of the principal.
- The contents of the feedback will be shared personally with each faculty member based on the parameters in the questionnaire and their metrics of measurement in the given format.
- Based on these parameters, the feedback given by the faculty is taken from the students, and the average is calculated.
- The faculty member who gets less than 75% average in the feedback is identified by the HoD, and he or she will be asked to submit an explanation to him.

Figure 9.2.3: Student Feedback Analysis Form (Annexed Separately)

Students will select any one of the levels corresponding to each parameter for current semester courses.

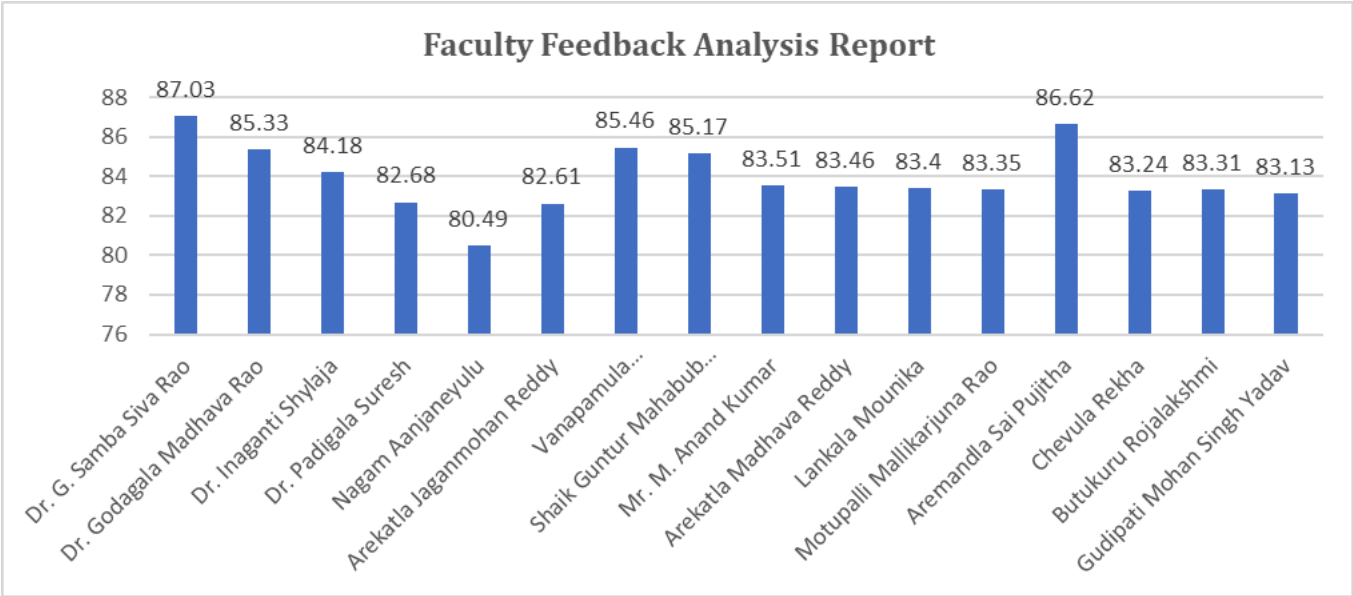


Figure 9.2.4. Sample Feedback Analysis Report (Graphical)

Feedback on faculty analysis and action taken for the Academic Year 2023-2024

Sl. No	Feedback	Name of the Faculty Member	Action Taken
1	Need to improve communication	Mr. N Anjineyulu	Recommended to attend FDPs by experts and encouraged to participate in Workshops and Seminars also
2	Irregularity	Mr. A Jagan Mohan Reddy	Recommended to attend college regularly
3	Best Performance	Mr. V V B Chari	Provided with Appreciation certificate
4	Best Performance	Mrs. A Sai Pujitha	Provided with Appreciation certificate
5	Best Performance	Dr. G Samba Siva Rao	Provided with Appreciation certificate

Table 9.2.2: Corrective measures for the assessment period

No of faculty members counseled for below average performance	No. of corrective actions in last 3 years		
	2022-2023	2023-2024	2024-2025
	5	3	2

Basis of Reward

- The feedback system works as an eye-opener for the faculty members.
- The increments and promotions are given based on a scale of 4 for student feedback in the faculty appraisal form.
- Those with low scores will be counselled and asked to improve their performance in the subsequent semesters by taking help from senior and experienced teachers or attending pedagogical training or other faculty development programs as per necessity.
- The faculty members are constantly motivated by giving a word of appreciation in the departmental meetings.

B. Corrective Measures (5)

1. Normally, the feedback of the students is used to improve the performance of the faculty members.
2. Regular training programs and FDPs by experts from industry and academia are organized every year to train the faculty members in teaching methodologies and e-teaching-learning process.
3. Apart from this, the faculty members are encouraged to attend various faculty development programs (FDPs) seminars and workshops to hone their skills.
4. If needed, explanation from the faculty will be demanded for any inappropriate result, and subsequent action will be taken to improve the performance of the faculty member.
5. Counselling will be given to the faculty concerned by the HOD and principal whenever required.

9.3 Feedback on facilities (5)

Total Marks 5.00

9.3 Feedback on facilities

A. Feedback Collection, analysis and corrective actions (5)

The aim of the college is to provide the best facilities for the students.

Students feedback on facilities is collected from the students through online.

Feedback is collected from all the students twice in an academic year.

The students do not disclose their identities while giving feedback.

The feedback is collected in the following fields:

- Adequacy of Classrooms
- Availability and Maintenance of Laboratories
- Availability of Modern Equipment in Labs
- Functioning of Computers and Internet in Labs
- Access to Licensed Software and Tools
- Library Facilities
- Availability of Reading Room / Digital Library
- Wi-Fi / Internet Connectivity across Campus
- Cleanliness and Sanitation in Campus
- Drinking Water Facilities
- Power Backup in Classrooms and Labs
- Canteen and Food Quality
- Hostel Accommodation and Facilities (if applicable)
- Transportation Facilities (College Bus / Connectivity)
- Medical / First Aid Facilities
- Sports and Recreational Facilities

Following is the process of providing feedback on facilities.

- Feedback Collection Process
- Feedback Analysis
- Corrective Measures

Feedback Collection Process

- Feedback on facility is collected Manually

Figure 9.3.1: Sample Empty Feedback on facilities form

Figure 9.3.2: Filled in Feedback on facilities form

Step-by-step feedback collection process from industry personnel, alumni, or parents:

- **Step 1:** The coordinator will give feedback forms to industry persons, alumni, or parents at the time of the visit (advisory committee meetings, guest lectures, collection of certificates, and alumni meets).
- **Step 2:** Feedback on facilities filled by the stakeholders for all facilities by using one of the levels.
- **Step 3:** After completion of the form, the coordinator will collect the data for analysis.

Feedback Analysis:

- The collected feedback is scrutinized by a committee with representation from each department. The details of the obtained feedback are thoroughly analyzed by a group of committee members. The committee takes appropriate decisions.

Corrective Measures

- Additional blocks were constructed for the Boys' hostel and Availied New Girls Hostel.
- A new shed has been provided in the parking area and Mess area.
- Additional buses are provided on new routes.
- CC cameras are provided in all corridors and throughout the entire campus for the girls' safety and security.
- The necessary corrective measures are implemented after discussion with the management. A review is conducted by the principal to check on the corrective measures taken and whether they need to be continued

Feedback Action Taken Report

Sl. No	Feedback	Action Taken Report
1	Monitoring system facility in the campus	As per the student feedback, the committee installed more no. of CC Cameras at the respective places and took necessary steps in monitoring them periodically
2	Library facilities	The committee advised to allocate library hours in the time table for the students and take steps for functioning of the library beyond college hours.

Figure 9.3.3: Feedback on facilities for the academic year

9.4 Self-Learning (5)

Total Marks 5.00

9.4. Self-Learning (or) Central Library and Information Centre

A. Scope for Self- learning (2)

B. Facilities, materials for learning beyond syllabus, webinars, MOOCS and demonstrate its effective utilization (3)

The academic performance of the students is enhanced through self-learning and learning beyond the syllabus. The institute takes maximum care to provide the necessary facilities beyond the curriculum, which includes Library facility, Internet facility, and online journal subscription

Central Library and Information Centre functions

- To provide general direction to the Central and Departmental Libraries of the Institute
- To review the functioning of the library with regards to its support for the academic programmers of the institute.
- To emulate an action plan for the development of library infrastructure, facilities, products, and services
- To evaluate the suggestions made by the library users and to advise the management on matters of policy relating to the development of libraries
- To enhance and support the research activity of the institution
- To look into the day-to-day problems of the library client, library staff
- To maintain liaison between the Central Library and various academic departments for the procurement of books and journals.
- Students are encouraged and guided to enroll in NPTEL and SWAYAM.

Central Library Advisory Committee

S.No	Name	Designation	Department
1	Mrs. P. Sailaja	Coordinator	Librarian
2	Mr. G. Masthan Reddy	Member	EEE
3	Mr. K. Vijay Kumar	Member	MECH
4	Mr. P. Sudheer Kumar	Member	ECE
5	Dr. K. Sreekar Chand	Member	CIVIL
6	Mr. V.V.B. Chari	Member	CSE
7	Koppala Mahendra	Student Member	CIVIL
8	Boya Narasimhulu	Student Member	EEE
9	Devajji Lokesh	Student Member	ECE
10	Nenavathu Koteswari Bai	Student Member	ECE
11	Chilakuri Ramya	Student Member	CSE
12	Golla Sivakumar	Student Member	CSE
13	Ponamala Venu	Student Member	AG
14	Kadiyam Narendra	Student Member	CS
15	Chimpiri Raju	Student Member	CIVIL
16	Itha Maheedhar	Student Member	EEE
17	Rampuram Ramanjineyulu	Student Member	MECH
18	Kasukurthi Akhila	Student Member	ECE
19	Kambam Aswini	Student Member	CSE

Table 9.4.1: Members of Library Advisory Committee

Services Rendered by the Committee

- Circulation
- Reference services
- E-journals browsing
- Reprographic Services
- User Orientation
- Maintenance of News Paper Clipping
- Service Filling of Previous Year Question Papers
- Current Awareness Service
- Back Volumes

Library Facilities and Services

- Upgraded to email integration in library automation software. Through this library user receive the mail alerts whenever they did a transaction like check-in, check-out, renewal reminder, overdue alerts and so on.
- Library created its resources database and provided Online Public Access Catalogue (OPAC) through which users can access from any of the computers connected in the campus LAN to know available resources and the status of the book <https://webprosindia.com/amrce/>
- The library is a member of DELNET and provides web access to e- resources that includes journals, text books, theses/ dissertations
- Established the NPTEL Local Chapter in association with IIT Madras. Through this, NPTEL has been offering online certification for its courses, the highlight being the certification exam through which the student gets an opportunity to earn a certificate from the IITs. <https://archive.nptel.ac.in/LocalChapter/statistics/2333/> (<https://archive.nptel.ac.in/LocalChapter/statistics/2333/>)
- For effective utilization of resources, orientation programs are conducted to the library users based on the assessment level of skill of the users when ever needed.
- Newspapers of local and English languages are available in central library.
- Library is Wi-Fi enabled.

Facilities for Student Self-Learning

S.No	Facility/Item	Description
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1	Central Computer Centre	30 Computers with Internet and Internet Facilities
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Table 9.4.2: Facilities for students in library

Self-Learning Sources in Central & Department Library

1	Library facility from 8 AM to 8 PM
2	Library Hour included in Time Table
3	NPTEL Video Lectures – 6568
4	Volumes - 19036
5	Titles - 3384
6	Net Browsing & Web Downloads
7	Project works – 380
8	DELNET Resources, NDLI, e-Books - 300 and above, GATE 15, Material
9	Competitive Exams Preparation Aptitude & Reasoning Books-61, English Vocabulary & Grammar Books - 138
10	Lecture notes of Faculty, PPTs & Web Materials

Table 9.4.3 Self learning sources in library

Program Wise Titles & Volumes

S.No	BRANCH	BOOKS		JOURNAL		E-RESOURCES
		VOLUMES	TITLES	NATIONAL /INTERNATIONAL	E-JOURNALS	
1	CSE	4007	820	20	160	DELNET JOURNAL TO NATIONAL DIGITAL NPTEL
2	ECE	3199	535	15	41	
3	EEE	2393	451	14	51	
4	CIVIL	1820	413	14	115	
5	MECH	1337	280	9	40	
6	AGE	130	24	7	116	
7	MBA	1115	213	13	240	
8	S&H	3653	648	5	467	
TOTAL		17654	3384	97	1230	
1	SC & ST	1382	370			
2	Projects Reports	380	380			
Total		1762	750			

Table 9.4.4: Program wise books & journals information available in library

Web-based Learning Facilities:

- The institute has created central internet facility 200Mbps speed leased line and 20 computer terminals facility to promote and motivate students to self -learning.
- The Internet is an open information system in which various sources of information, media and materials such as texts, images, video sequences can be linked together in diverse ways to form so-called self-learning environments.
- Internet offers new possibilities to structure, represent, adapt and integrate various learning content and materials. Furthermore, due to its interactivity, learners can process the material in accordance with their individual preferences and strategies at any time and from any place provided an internet connection is available.
- Faculty members suggest different sources for each subject.
- Faculty members prepare their course files and place them in college website.

Learning with Multi-Media Facilities:

- Availability of course material on intra-net
- Digital library facility
- Language lab facility
- Availability of video lectures
- LCD projectors for presentation

NPTEL Local Chapter Statistics

- NPTEL (National Program on Technology Enhanced Learning) provides E-learning through online Video and Web courses in Engineering, Sciences and Humanities streams.
- The objective is to enhance the learning component of all Engineering aspects including Electronics & Communication Engineering aspects of some of the current learning methods.
- Having access to 1000+ web and video courses of NPTEL – view, download and copy.
- Through local chapter NPTEL has initiated Open online courses that have certification as an option. 10hr, 20hr and 30hr courses are offered on the model of MOOCs on the online courses portal
- The objective of enabling students to obtain certificates for courses is to make students employable in the industry or pursue a suitable higher education program.

NPTEL VIDEOS

1	Basic Sciences & Humanities	1654
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2	Civil Engineering	1163
3	Electrical Engineering	1116
4	Mechanical Engineering	1388
5	Electronics and Communication Engineering	1178
6	Computer Science and Engineering	1185

Table 9.4.5: Program-wise number of NPTEL videos

Course Wise Videos of Basic Sciences & Humanities department

BASIC SCIENCES & HUMANITIES		
S. no	Title of the subject	No. of videos
1	Organization Management	40
2	Organization of Engineering	38
3	Econometric Modelling	40
4	Security Analysis And Portfolio	40
5	Six Sigma	40
6	Consumer Behavior	40
7	Strategic Management	37
8	Elementary Numerical Analysis	40
9	Measure And Integration	40
10	Stochastic Process	39
11	Applied Multi Variety Analysis	44
12	Calculus of Variations And Integration	40
13	Linear Programming And Extension	40
14	Convex Optimization	42
15	Advanced Engineering Mathematics	42
16	Functional Analysis	39
17	Probability And Statistics	40
18	Statistics Inference	40
19	A Basic Course In Real Analysis	46
20	Advanced Matrix Theory	40
21	Electromagnetic Theory	40
22	Special Theory of Relativity	21
23	Electronics	42
24	Plasma Physics Fundamentals	42
25	Quantum Electronics	42
26	Quantum Mechanics And Application	42
27	Special Topics In Classical Mechanic	40
28	Applied Mechanics	16
29	Management Science	39
30	Material Science	37
31	Numerical Methods	41
32	Engineering Mechanics	31
33	Engineering Physics	28
34	Mathematics I	32
35	Human resource Management	22
36	Leadership	13
37	Management Information System	29
38	Physics I	44
39	Strategic Management	11
40	Basic Electronics Lab	40
41	Classical Physics	38
42	Engineering Chemistry I	10

43	Numerical Analysis	38
44	Quantum Physics	31
45	Mathematics III	38
46	Concept of Management	40
TOTAL		1654

Table 9.4.6: Course-wise videos of Basic Science and Humanities department

CIVIL ENGINEERING		
S. No	Title of the subject	No. of videos
1	Soil dynamics	38
2	Watershed management	40
3	Geotechnical earthquake engineering	43
4	Geo technical measurements	40
5	Advanced foundation engineering	40
6	Finite element analysis	40
7	Urban transportation planning	41
8	Ground improvement techniques	40
9	Stochastic hydrology	40
10	Stochastic structural dynamics	42
11	Water resources systems	40
12	Fluid mechanics	42
13	Soil mechanics	57
14	Structural analysis II	40
15	Civil engineering building	41
16	Hydraulics	40
17	Environmental air pollution	39
18	Surveying	40
19	Water resource engineering	28
20	Design of rein forced concrete	20
21	Engineering geology	40
22	Introduction to transportation	41
23	Strength of materials	40
24	Mechanics of solids	39
25	Pre-stressed concrete structures	40
26	Water and waste water engineering	40
27	Foundation engineering	40
28	Modern surveying techniques	12
29	Transportation engineering	40
30	Design of steel structures	40
TOTAL		1163

Table 9.4.7: Course-wise videos of Civil Engineering department

ELECTRICAL & ELECTRONICS ENGINEERING		
S. No	Title of the subject	No. of videos
1	Power system dynamics	45
2	Advanced control systems	40
3	High voltage dc transmissions	37
4	An introduction to electronics	42
5	Control engineering	47
6	Power electronics	43
7	Circuit theory	51
8	Control engineering	41
9	Embedded systems	37

10	Power system generation transmission	35
11	Power system dynamics	40
12	Intelligent systems and control	32
13	Power system s operation	35
14	Chaos fractals & dynamics	40
15	Digital signal process	35
16	Dynamics of physical systems	34
17	Energy resources and technology	40
18	Estimation of signals and systems	30
19	Illumination engineering	20
20	Industrial automation	40
21	Industrial instrumentation	40
22	Networks signals and systems	36
23	Power system analysis	40
24	Analog ICs	28
25	Digital integrated circuits	40
26	Electromagnetic fields	42
27	Network and systems	50
28	Basic electrical technology	39
29	Industrial drives power electronics	37
TOTAL		1116

Table 9.4.8: Course-wise videos of Electrical and Electronic Engineering department

ELECTRONICS AND COMMUNICATION ENGINEERING		
S. No	Title of the subject	No. of videos
1	Advanced digital signal processing	50
2	Advance optical communication	41
3	Advanced 3G and 4G wireless communication	40
4	Circuit for analog system	40
5	Error correcting codes	42
6	Broadband networks concepts and technology	32
7	Digital communication	32
8	Information theory and coding	41
9	Transmission lines and waves	60
10	Communication engineering	41
11	Digital signal processing	43
12	Wireless communication	38
13	Basic electronics	40
14	Signals and systems	45
15	Adaptive signal processing	41
16	Digital computer organization	28
17	Digital image processing	40
18	Digital systems design	40
19	Digital voice & picture communication	40
20	MEMS and Microsystems	32
21	Neural networks and applications	37
22	Probability and random processes	40

23	Digital circuits and systems	40
24	Electronics for analog signal processing - I	38
25	Electronics for analog signal processing - II	39
26	Speed devices and circuits	41
27	Solid state devices	42
28	VLSI circuits	55
29	VLSI Technology	40
TOTAL		1178

Table 9.4.9: Course-wise videos of Electronics and Communication Engineering department

COMPUTER SCIENCE AND ENGINEERING		
S. No	Title of the subject	No .of videos
1	Computational geometry	40
2	Design verification and testing	44
3	Biometrics	26
4	Cryptography and network security	40
5	Low power VLSI circuits & systems	38
6	Real time systems	40
7	Performance evaluation	42
8	Theory of Automata	42
9	Compiler design	50
10	Graph theory	40
11	High performance computing	41
12	Numerical optimization	41
13	Design and analysis of algorithms	34
14	Software engineering	39
15	Computer architecture	38
16	Data structures and algorithms	36
17	Introduction to computer Graphics	35
18	Principles of programming language	40
19	Introduction to problem solving	24
20	Artificial intelligence	40
21	Artificial intelligence	28
22	Computer Networks	40
23	Data communications	41
24	Electronic design automation	35
25	Internet technology	40
26	Programming and data structures	32
27	Computer graphics	43
28	Computer organization	33
29	Data base design	43
30	Discrete mathematical structures	40
31	System analysis and design	40
TOTAL		1185

Additional Information

ATAL : <https://www.aicte-india.org/atal/> (<https://www.aicte-india.org/atal/>) ,

COURSEERA : <https://www.coursera.org/> (<https://www.coursera.org/>)

DATA CAMP : <https://www.datacamp.com/> (<https://www.datacamp.com/>)

ANALYTICS VIDHYA: <https://www.analyticsvidhya.com/> (<https://www.analyticsvidhya.com/>)

E-BOOKS

LIBRARY GENESIS : <http://93.174.95.27/> (<http://93.174.95.27/>)

FREE-EBOOKS : <https://www.free-ebooks.net/> (<https://www.free-ebooks.net/>)

DIGILIBRARIES : <https://digilibraries.com/> (<https://digilibraries.com/>)

ARCHIVE : <https://archive.org/> (<https://archive.org/>)

GUTENBERG : <https://www.gutenberg.org/> (<https://www.gutenberg.org/>)

E-JOURNALS

DIRECTORY OF OPEN ACCESS : <https://doaj.org/> (<https://doaj.org/>)

BENTHAM OPEN : <https://benthamopen.com/> (<https://benthamopen.com/>)

WSPC : <https://www.worldscientific.com> (<https://www.worldscientific.com/>)

DICTIONARIES

CAMBRIDGE ONLINE DICTIONARY : <https://dictionary.cambridge.org/> (<https://dictionary.cambridge.org/>)

DICTIONARY : <https://www.merriam-webster.com/> (<https://www.merriam-webster.com/>)

Previous years question papers

<https://www.jntufastupdates.com/question-papers/> (<https://www.jntufastupdates.com/question-papers/>)

<https://www.manareresults.co.in/b-tech-jntuk-old-previous-question-papers.php> (<https://www.manareresults.co.in/b-tech-jntuk-old-previous-question-papers.php>) <https://www.alljntuworld.in/jntu-kakinada-previous-question-papers/> (<https://www.alljntuworld.in/jntu-kakinada-previous-question-papers/>)

R20 regulation syllabus link

<https://www.jntukinformation.com/jntuk-btech-r20-regulation-syllabus-pdf-download/> (<https://www.jntukinformation.com/jntuk-btech-r20-regulation-syllabus-pdf-download/>)

CENTRAL COMPUTING FACILITY (COMMON COMPUTER CENTER)

A common computer center is a vital hub for students and faculty members, providing essential computing resources and support for academic and administrative activities. Heres a brief overview of what you can expect from a common computer center:

- **Access to Technology:** Common computer centers offer students access to a wide range of computing resources and specialized software. This accessibility allows students to complete assignments, conduct research, and develop digital skills necessary for their academic pursuits.
- **Academic Support:** Trained staff members are often available in the common computer center to assist students with technical issues, software inquiries, and general computer-related questions. They provide valuable guidance to ensure students can effectively use the available resources.
- **Internet Connectivity:** High-speed internet connectivity is a hallmark of common computer centers. Reliable internet access is crucial for research, online coursework, and communication, and these centers ensure that students have a stable connection.
- **Quiet Study Environment:** In addition, computer centers usually provide quiet study areas where students can focus on individual coursework without distractions. Students can access e- resources like e-journals, e-books, thesis using DELNET, NDL

9.5 Career Guidance, Training, Placement (10)

Total Marks 10.00

9.5 Career Guidance, Training, Placement

The institution has a well-organized and operated training and placement cell. A large number of reputed companies in various domains visits the institution for recruitment. This has been made possible by specific training and skill-based trainings through outsourced agencies and in-house training.

A. Availability of career guidance facilities (2)

1. Prepare the students for placement and organize pre-placement training for them as well as guidance for higher education.
2. Organize seminars for students to provide information about career and education-related opportunities and create awareness of current trends (current trends in industries, emerging areas, scholarships for higher studies in India or abroad).
3. Help in building the self-confidence of students and developing aptitude-solving abilities
4. Help the students with career guidance.
5. Conduct motivational talks periodically for all the students.
6. Conduct online tests of students and, on the basis of their results, guide them towards corrective measures.

S. No	Facilities
1	Training and placement cell office
2	Seminar hall
3	Class Rooms for Group discussions
4	Interview rooms
5	Computer labs for online tests

Table -9.5.1 The List of facilities provided

S. No	Name of the Activity	Date	Event Details/Speaker	No Of Student
1	Emerging Trends in Automotive Industry –Digital Age”	24/08/2023	Dr. S S N Anjaneyulu	85
2	Organization Readiness to Reskills and Upskills Campus Talent	29/08/2023	Dr. S. Joy Kumar	93
3	Preparation for Service Selection Board Interview and Tips	31/01/2024	Mr. K Sunil Kumar	87
4	Effective Ways of Writing Research Articles Live National Webinar	08/02/2024	Dr.V. Samba Siva Rao	72

Table-9.5.2: Events for Career Guidance of Students for the A.Y. 2023-24

S. No	Name of the Activity	Date	Event Details/Speaker	No Of Student
1	Guidance for Competitive Exams	13/09/2023	Mr. K. Doctor Babu	93
2	Career Counseling Program	06/02/2024	Mr. J. Sarathi	75
3	Awareness on GATE	05/03/2024	K. Ravindra Reddy	45

Table-9.5.3: Events for Career Guidance of students for the A.Y. 2022-23

S. No	Name of the Activity	Date	Event Details/Speaker	No Of Student
1	A Seminar on Gate Exam Preparation Strategies	23/01/2024	Mr. J. Vijay Kumar	35
2	Seminar on "Study Abroad? – A Reality Check".	21/02/2024	V. Prasanna /Leo	41
3	GRE & GMAT Seminar	14/03/2024	Mr. J. Vijay Kumar	45

Table-9.5.4: Events for Career Guidance of students for the A.Y. 2021-22

B. Counseling for higher studies (2)

The Placement and Career Guidance Cell was reconstituted under the coordinator ship of Sri. P. Nagur Meeraiah to extend support to the students in planning and molding their careers

Objectives of Placement and Career Guidance Cell:

- a. To maintain a good interface with industries so as to facilitate the training of students.
- b. To inspire the faculty to update so as to include in their teaching the requirements of industry and produce industry-ready graduates.
- c. To approach industry for industry-institute partnerships wherein consultancy and research projects can be offered to faculty members.
- d. To create placement avenues in different industries for all the eligible students.
- e. To train the students to upgrade their skill sets in tune with the requirements of the industry.
- f. To arrange guest lecturers from eminent personalities in industry for career counselling

Faculty Member

S.No	Name	Designation	Department
1	Mr. P. Nagur Meeraiah	Coordinator	B S&H
2	Mr. A.Madhava Reddy	Member	CSE
3	Mr. Vijaya Kumar	Member	MECH
4	Mr G Masthn Reddy	Member	EEE
5	Mr. P. Sudheer Kumar	Member	ECE

Table 9.5.5 Faculty Members

Student Members

S.No	Reg. No	Name Of The Student Members	Department
1	20HM1A0112	Pamula Sushma	CE-IV Year
2	20HM1A0203	Jarapala Prasad Naik	EEE-IV Year
3	20HM1A0301	Dara Ajay Kumar	MECH-IV Year
4	20HM1A0407	Bodagala Venugopal	ECE-IV Year
5	20HM1A0502	Bejjipalli Jeevamani	CSE-IV Year
6	20HM1A3512	Depangi Vasu	AG-IV Year
7	21HM1A0101	Duggepogu Jhansi Rani	CE-III Year
8	21HM1A0204	Golla Bharath Yadav	EEE-III Year
9	21HM1A0409	Gadidesi Siva	ECE-III Year
10	21HM1A0513	Degala Gopinath	CSE-III Year
11	21HM1A3511	Palle Pragathi	AG-III Year
12	21HM1A5919	Nayudu Anil	CS-III Year

Table 9.5.6 Student Members**Functions:**

- To be responsible for student enrollments for training and placements.
- To find the best training partners from the industry and organize company-specific training during campus selections.
- To interact with industry experts and students on a regular basis to bridge the gap between industry and academia by arranging industry-connected programs.
- To arrange programs for career guidance and counselling of the students with regards to higher education in national and international universities.
- To identify the need for training for the students.
- To collect and maintain the reports of students' online assessment practice tests.

Placement Process and Support:

- The training division of the placement cell, through its custom-made modules, prepares the students not only for the corporate world but also for life at large. The cell organizes workshops and training on personality development, soft skills, quantitative aptitude, company-specific modules, a crash course on technical topics, and other placement-related training every year for all students across all semesters.
- To strengthen the industry-academia interaction, a number of technical talks, seminars, and workshops are also organized by inviting industry experts on topics like robotics, artificial intelligence, machine learning, cyber security, data analytics, life in the corporate world, etc.

Recruitment Process:

- Prepare the students database based on their merit.
- Invite companies to visit AMRMCET for recruitment.
- If the company accepts, collect the relevant data like the minimum cut-off percentage, branches in demand, selection procedures, etc.
- Inform the students of the requirement.
- Prepare a database of eligible candidates.
- Finalize the schedule sent in concurrence with the industry and conduct the process.
- Prepare a list of selected candidates.
- Get the appointment letters or selection letters (e-mail) from the
- Distribute the appointment letters and inform the students regarding selection.
- Get the date of joining from the company and inform the students.

C. Pre-Placement Training (3)

The various components of the Pre-Placement Training Programs include modules on Current Affairs, General Aptitude, Technical Aptitude, Presentation Skills, Group Discussion Skills, Debate Skills, Interviews Skills & Mock Interviews, Workshops, etc. The various components of the Pre-Placement Training Programs include modules on Aptitude, Soft skills and Technical Skills, Resume building, Group Discussion, Interviews Skills & Mock Interviews, Workshops, etc., for 3rd and 4th B.Tech., students for 2 weeks. Training modules and timing schedules are given below

S.No	Module Name	No Of Hours
1	Aptitude	30
2	Soft skills	14
3	Technical	30

Table 9.5.7 CRT Modules**PRE-PLACEMENT TALKS (PPT)**

- Notices of the training programs will be shared well in advance.
- Students interested in a particular company, can attend its PPT.
- Students should be available 15 minutes before the schedule.
- Students must go through the complete selection process of a particular company.
- Any clarification regarding salary break-up, job profile, place of work, bond details etc. must be sought from the companies during PPT or interview.
- DRESS CODE: Students must be formally dressed whenever they participate in any interaction with a company. AMRMCET reserves the right to refuse permission to a student to attend the selection process/PPT, if they do not dress up formally.

Academic Year: 2024-25

S.No	Targeted Students	Name Of The Training Module	Date Of Event	Name of the Resource Person
1	IV,III	Soft skills	24/3/2025	S.Ram
2	IV,III	Coding	24/3/2025	K. Vijay Kumar

3	IV,III	Aptitude	25/3/2025	M.Venu Gopal
4	IV,III	Coding	25/3/2025	K. Vijay Kumar
5	IV,III	Soft skills	26/3/2025	S.Ram
6	IV,III	Coding	26/3/2025	K. Vijay Kumar
7	IV,III	Aptitude	27/3/2025	M.Venu Gopal
8	IV,III	Coding	27/3/2025	K. Vijay Kumar
9	IV,III	Reasoning	28/3/2025	P.Ravi Teja
10	IV,III	Coding	28/3/2025	K. Vijay Kumar
11	IV,III	Aptitude	29/3/2025	M.Venu Gopal
12	IV,III	Coding	29/3/2025	K. Vijay Kumar
13	IV,III	Aptitude	31/3/2025	M.Venu Gopal
14	IV,III	Coding	31/3/2025	K. Vijay Kumar

Table 9.5.7.1 Activities of Placement and Career Guidance Cell – Campus Recruitment Training

Academic Year: 2023-24

S.No	Targeted Students	Name Of The Training Module	Date Of Event	Name of the Resource Person
1	IV,III	Aptitude	11/09/2023	M.Venu Gopal
2	IV,III	Soft Skills	11/09/2023	S.Ram
3	IV,III	Aptitude	12/09/2023	M.Venu Gopal
4	IV,III	Soft Skills	12/09/2023	S.Ram
5	IV,III	Aptitude	13/09/2023	M.Venu Gopal
6	IV,III	Reasoning	13/09/2023	P.Ravi Teja
7	IV,III	Soft Skills	14/09/2023	S.Ram
8	IV,III	Aptitude	14/09/2023	M.Venu Gopal
9	IV,III	Soft Skills	15/09/2023	S.Ram
10	IV,III	Reasoning	15/09/2023	P.Ravi Teja
11	IV,III	Soft Skills	16/09/2023	S.Ram
12	IV,III	Reasoning	16/09/2023	P.Ravi Teja
13	IV,III	Coding	18/03/2024	K. Vijay Kumar
14	IV,III	Coding	18/03/2024	K. Vijay Kumar
15	IV,III	Coding	19/03/2024	K. Vijay Kumar
16	IV,III	Coding	19/03/2024	K. Vijay Kumar
17	IV,III	Coding	20/03/2024	K. Vijay Kumar
18	IV,III	Coding	20/03/2024	K. Vijay Kumar
19	IV,III	Coding	21/03/2024	K. Vijay Kumar
20	IV,III	Coding	21/03/2024	K. Vijay Kumar
21	IV,III	Coding	22/03/2024	K. Vijay Kumar
22	IV,III	Coding	22/03/2024	K. Vijay Kumar
23	IV,III	Coding	23/03/2024	K. Vijay Kumar
24	IV,III	Coding	23/03/2024	K. Vijay Kumar

Table 9.5.7.1 Activities of Placement and Career Guidance Cell – Campus Recruitment Training

Academic Year: 2022-23

S.No	Targeted Students	Name Of The Training Module	Date Of Event	Name of the Resource Person
1	IV,III	Aptitude	19/10/2022	M.Venu Gopal
2	IV,III	Soft Skills	19/10/2022	S.Ram
3	IV,III	Aptitude	20/10/2022	M.Venu Gopal
4	IV,III	Soft Skills	20/10/2022	S.Ram
5	IV,III	Aptitude	21/10/2022	M.Venu Gopal
6	IV,III	Reasoning	21/10/2022	P.Ravi Teja
7	IV,III	Aptitude	22/10/2022	M.Venu Gopal
8	IV,III	Reasoning	22/10/2022	P.Ravi Teja
9	IV,III	Technical Training	21/02/2023	K. Vijay Kumar

10	IV,III	Technical Training	21/02/2023	K. Vijay Kumar
11	IV,III	Technical Training	22/02/2023	K. Vijay Kumar
12	IV,III	Technical Training	22/02/2023	K. Vijay Kumar
13	IV,III	Technical Training	23/02/2023	K. Vijay Kumar
14	IV,III	Technical Training	23/02/2023	K. Vijay Kumar
15	IV,III	Technical Training	24/02/2023	K. Vijay Kumar
16	IV,III	Technical Training	24/02/2023	K. Vijay Kumar
17	IV,III	Technical Training	25/02/2023	K. Vijay Kumar
18	IV,III	Technical Training	25/02/2023	K. Vijay Kumar

Table 9.5.7.1 Activities of Placement and Career Guidance Cell – Campus Recruitment Training

The Companies who visited the campus for recruitment

2023-2024	2022-2023	2021-2022
GLOBAL E SMART TECHNOLOGIES	PRO IT Solutions	Capgemini Technology Services India Limited
HIROTOIND TECHNOLOGIES	Tata Consultancy Services	Cogente Services
PRO IT Solutions	Boston It Solutions Pvt. Ltd.	Global E Smart Technoloies
SMART INNOVATIONS Pvt Ltd	EXATHOUGHT TECHNOLOGY CONSULTING PRIVATE LIMITED	HCL Technologies Ltd.
SMART SELECT SOLUTIONS	Teamlease Services Limited	HIROTOIND TECHNOLOGIES
SYNCTRA SOLUTIONS	Thinksynq	Infinite Computer Solutions
EXATHOUGHT TECHNOLOGY CONSULTING PRIVATE LIMITED	GLOBAL E SMART TECHNOLOGIES	PRO IT Solutions
Boston It Solutions Pvt. Ltd.	SMART SELECT SOLUTIONS	Smart Innovations Pvt Ltd
Tata Consultancy Services	HIROTOIND TECHNOLOGIES	SMART SELECT Solutions
Cogente Services	SMART INNOVATIONS Pvt Ltd	SYNCTRA SOLUTIONS
Infinite Computer Solutions	SYNCTRA SOLUTIONS	Wipro
Thinksynq		

Table 9.5.8 The Companies who visited the campus for recruitment

9.6 Entrepreneurship Cell (5)

9.6. Entrepreneurship Cell

Entrepreneurship Initiatives (1)

Entrepreneurship Development & Innovation and Incubation Cell

Functions:

- To identify the required skills for entrepreneurs and conduct relevant training for sharpening entrepreneurship an environment for self-employment through formal and non-formal entrepreneurship development programs.
- Develop management personnel at appropriate levels for the non-corporate and unorganized sectors like education, rural development, small-scale industry, etc. Utilization of the infrastructure facilities and technically train
- Promoting employment opportunities for the younger generation

Facilities:

Seminar hall with 150 seats.

Entrepreneurship Development Cell Room for Committee Meetings and Discussions. Conference hall.

Having a computer system with Printer and Internet facilities

Composition & Committee Members:

Committee Composition:

- One senior faculty as coordinator.
- One faculty from each department.
- One final year student from each department

Committee Members:

Faculty Members:

S.No	Name	Designation	D
1	Mr P S K Ganesh Kumar	Coordinator	
2	Mr. A Madhava Reddy	Member	
3	Mr. I Anil Babu	Member	
4	N Hanumanth Rao	Member	
5	B Chinna Babu	Member	

Student Members:

S. No.	Roll No.	Name of the Student	
1	21HM1A0509	Ch Kondalu	
2	21HM1A0423	R Baresh	
3	21HM1A0205	G Messiah	
4	21HM1A0101	D Jhansi Rani	
5	21HM1A3501	A Sushma Lahari	

Role & Responsibilities:

Coordinator:

- To induce and enhance the entrepreneurial culture at the college.
- Try to bridge the gap between demand and supply of manpower through self-employment as a feasible option.
- To develop and maintain a cordial and healthy relationship between all supporting institutions and organizations promoting entrepreneurship development.
- To prepare a yearly action plan for conducting entrepreneurship training programs.
- To coordinate all the training programs of the National Entrepreneurship Network.
- To arrange interactive sessions with successful business people.

Faculty Members:

- To prepare a year wise activity schedule for EDC and publish the same to all stakeholders, and department notice boards
- To monitor works allotted to all members of EDC and plan future works by arranging meetings on last Saturday of every month throughout the year.
- To publish and disseminate various events through posters, website, Notice boards and prominent places in college and to Press and Media time to time.
- Organize lectures, workshops, and seminars by renowned personalities from different domains of expertise, competitions of various kinds, etc., round-the-year in order to create awareness and sharpen the business acumen c
- Arranging for suitable skill development programs related to Entrepreneurship Development.

Student Member:

- To identify interested students for training in EDC and to motivate and organize small group camps at the department class level by presentations and showing videos of successful entrepreneurs.
- To identify the students with entrepreneurial ideas and innovation.
- To identify successful entrepreneurs from the college alumni in each department and get their contact address and report to the coordinator every 15 day S.

Year Planner for the Academic Year:2024-2025

S.no	Name of the event	Date/dates	Name of the Organization	
1	Workshop on Igniting Ideas: Awareness programme for aspiring Entrepreneur	November 4 th week	Retd. Asst. Director, MSME	

2	"Business opportunities in SSI."	September 3 rd week.	General Manager from a Industry	
3	Entrepreneurship Opportunities In India	December 2 nd week.	HR Manager	
4	Success of Entrepreneur	February 1 st week.	An Entrepreneur	

Table 9.6.2.1 Year planner of EDC Cell for academic year 2024-2025

Events / Activities Organized for the Academic Year:2024-2025

S.No	Name Of the faculty Coordinator	Area/ Topic	Resource Person	Course/ class	Date/ Dates
1	Mr. A Madhava Reddy	Workshop on Igniting Ideas: Awareness programme for aspiring Entrepreneur	Mr. K S Chowdary	CE, ECE, CSE, EEE	27-Nov-24
2	Mr. I Anil Babu	"Business opportunities in SSI."	Mr. K Vijay Kumar	CE, ECE, CSE, EEE	13-09- 2024
3	N Hanumanth Rao	Entrepreneurship opportunities In India	Mr. Ch Sreeram Reddy	CE, ECE, CSE, EEE	16-Dec-24
4	B Chinna Babu	Success of Entrepreneur	Mr. Ramu Reddy	CE, ECE, CSE, EEE	2-2-2024

Table 9.6.2.2 Events or Activities organized by EDC Cell for academic year 2024-2025

Year Planner for the Academic Year:2023-2024

S.no	Name of the event	Date/dates	Name of the Organization	
1	Awareness program on Start- up's.	April 2 nd week.	NSIC (National Small Industries Corporation Limited)	
2.	Business Opportunities – government Schemes	October 3 rd Week	General Manager District Industries Center	
3.	Women Entrepreneurship.	December 1 st week.	Women Entrepreneur.	
4	Workshop on start-ups	February 3 rd week	Industry Expert	

Table 9.6.2.3 Year planner of EDC Cell for academic year 2023-2024

Events / Activities Organized for the Academic Year:2023-2024

S.No	Name Of the faculty Coordinator	Area/ Topic	Resource Person	Course/ class	Date/ Dates
1	Dr. G Samaba Siva Rao	Awareness programme on Start- up's.	Dr. Himaja Trivedi	CE, ECE, CSE, EEE	7-4-2023
2	Mr. Sk Meeravali	Business Opportunities – government Schemes	Dr. M Manjunath	CE, ECE, CSE, EEE	16-10-2023
3	Dr. K Sreekar Chand	Women Entrepreneurship.	Mrs. M L Surekha	CE, ECE, CSE, EEE	4-12-2023
4	Dr. K Krishna Reddy	Workshop on start-ups	Mr. M Dilip Kumar	CE, ECE, CSE, EEE	16-02-2024

Table 9.6.2.4 Events or Activities organized by EDC Cell for academic year 2023-2024

Events / Activities Organized for the Academic Year:2022-2023

S.No	Name Of the faculty Coordinator	Area/ Topic	Resource Person	Course/ class	Date/ Dates
1	Dr. G Madhav rao	Entrepreneurship and Innovation as Career Opportunity	Mr. B. Ram Kumar	CE, ECE, CSE, EEE	13-09-2022
2	Mr. SK Saida	Entrepreneurial Opportunities in MSME	Dr. S. Santhosh Kumar	CE, ECE, CSE, EEE	19-12-2022
3	Mr. K Chandra Shekar	"Functions of Entrepreneur"	Dr. B. Madhusudhan	CE, ECE, CSE, EEE	10-2-2023

Table 9.6.2.5 Events or Activities organized by EDC Cell for academic year 2023-2024

Image Gallery:

Figure 9.6.1: Event Photographs of EDC Cell (Annexed Separately)

Impact Analysis:

1. Registered IPRs with Startup Ideas
2. Increased student awareness about startups, business models, and innovation
3. Greater involvement in EDC activities like workshops, idea contests, hackathons, and pitch fests.
4. Created a startup ecosystem within the campus; students are encouraged to build and scale ideas.

B. Data on students benefitted (4)

Sl.No	Name of Student	Registration No.
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1	Mohd. Shaik Masaheef	AP-22-14-009-03905845
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9.7 Co-curricular and Extra-curricular Activities (10)

Total Marks 10.00

9.7. Co-curricular and Extra-Curricular Activities

A. Availability of Sports and cultural facilities (3)

B. NCC, NSS and other clubs (3)

C. Annual students activities (4)

Co-curricular and Extra-Curricular Activities:

Students are engaged in co-curricular and extra-curricular activities and field trips through student chapters and events, which provide opportunities for students to explore new fields of interest, cultivate leadership skills, and learn teamwork. In this regard, institution has formed various committees for participating and organizing the cultural and sports activities. Every department has its own association through which various department symposiums; project expo and other technical and nontechnical events are being conducted. These association activities benefit in developing leadership skills and make them work in teams.

9.7.1 National Service Scheme (NSS) Committee.

A.M. Reddy Memorial College of Engineering & Technology, National Service Scheme (NSS) Unit No.90214725 enrolls 100 NSS volunteers every year. The National Service Scheme (NSS) is an Indian government- sponsored public service program conducted by the Department of Youth Affairs and Sports of the Government of India. Popularly known as NSS, the scheme was launched in Gandhiji's Centenary year, 1969. Aimed at developing student's personality through community service, NSS is a voluntary association of young people in Colleges, Universities and at +2 levels working for a campus-community linkage. The cardinal principle of the NSS program is that it is organized by the students themselves, and both students and teachers through their combined participation in community service, get a sense of involvement in the tasks of nation building. Motto: "NOT ME, BUT YOU" "A.M. Reddy Memorial College of Engineering & Technology Committee" has been constituted, under the coordinator ship of Dr.K Krishna Reddy with the following members, to make the students aware of social responsibilities and dignity of labor and make them self-reliant.

Committee Members:

S.No	Name	Designation	Department
1	Dr. Ch. Mallikarjun	Chairman	Principal
2	Dr. K. Krishna Reddy	Program Officer	EEE
3	Mr. G. Mastan Reddy	Member	EEE
4	Mr. K. Vijay Kumar	Member	ME
5	Mr. V.V.B. Chari	Member	CSE
6	Mr. P. Sudheer Kumar	Member	ECE
7	Dr. K. Sreekar Chand	Member	CE
8	Dr. G. Bhaskar Reddy	Member	BS&H

Table 9.7.1.1: Members of National Service Scheme (NSS) Committee for Academic year 2023-24

NSS Program Officer Details:

Name of NSS Program officer	Dr. K. Krishna Reddy
Qualification	PHD
Designation	Assoc prof
AMRCET NSS Unit Code	90214725

Aim of National Service Scheme (NSS)

The program aims to inculcate social welfare in students, and to provide service to society without bias. NSS volunteers work to ensure that everyone who is needy gets help to enhance their standard of living and lead a life of dignity. In doing so, volunteers learn from people in villages how to lead a good life despite a scarcity of resources. It also provides help in natural and man-made disasters by providing food, clothing and first aid to the disaster victims

Functions of NSS

- To encourage students to take active participation in social responsibilities.
- To arrange road shows and processions for creating awareness to people on certain health and social problems.
- To arrange Blood donation camps.
- To organize free health check-up campus by inviting willing doctors to the campus.
- To organize special camping program.
- To organize plantation programs.
- The program aims to install the idea of social welfare in students, and to provide service to society without bias.
- NSS volunteers work to ensure that everyone who is needy gets help to enhance their standard of living and lead a life of dignity
- Making education more relevant to the present situation to meet the felt needs of the community and supplement the education of the university/college students by bringing them face to face with the rural situation
- Providing opportunities to the students to play their role in planning and executing development projects which would not only help in creating durable community assets in rural areas and urban slums but also results in the improvement of quality of life of the economically and socially weaker sections of the community Encouraging students and non-students to work together along with the adults in rural areas
- Developing qualities of leadership by discovering the latent potential among the campers, both students as well as local youth (Rural and Urban), with a view to involve them more intimately in the development program and also to ensure proper maintenance of the assets created during the camps
- Emphasizing dignity of labour and self-help and the need for combining physical work with intellectual pursuits
- Encouraging youth to participate enthusiastically in the process of national development and promote national integration, through corporate living and cooperative action.
- To assist and guide the NSS unit for implementation of NSS Programs at College level.
- To help in organizing camps, training and orientation programs for the NSS Program officers. To visit
- the NSS units for monitoring and evaluation.
- Conduct free medical camps for nearby villages.
- Organize Awareness programs on various issues, e.g. swachhta bharath sanitation, pollution and environmental issues, social issues etc.,
- To promote Community education through meetings, talks, news bulletins, Discussions etc.,

Annual NSS Camps

Camps are held annually, funded by the government of India, and are usually Located in a rural village or a city suburb. Volunteers may be involved in such Activities as:

- Cleaning A forestation
- Stage shows or a procession creating awareness of such issues as social problems, education and cleanliness
- Inviting doctors for health camps

- Crowd regulation during festival season
- Flood relief operation
- Conducting adult education class

Details of College NSS Account:

Name of the bank: State bank of India

A/C number: 41720104176

IFSC code: SBIN0000884

Address: Narasaraopet, Palnadu Dist. (Formerly Guntur Dist.)

NSS UNIT FOR UNIVERSITY CORRESPONDENCE

S.No	Academic Year	Amount Sanctioned by JNTUK, Kakinada	Amount Spent	Balance
1	2024-2025	36.000	36.000	Nil
2	2023-2024	36.000	36.000	Nil
3	2022-2023	36.000	36.000	Nil

Table 9.7.1.3: Bank details of the NSS unit for university correspondence (fund sanction & utilization)

Special Camping Program:

Special Camping forms an integral part of National service Scheme. It has special appeal to the youth as it provides unique opportunities to the students for group living, collective experience sharing and constant interaction with community. Special camping’s organized generally on various developmental issues of national importance. In the past the themes of the special camping programs have been ‘Youth for Rural Reconstruction’ “Healthy Youth for healthy India”. Every year 50 percent of the NSS volunteers are expected to participate in special camp which is of seven days duration.

Report:

The NSS Program officer of the institution will coordinate with the “NSS Coordinator of JNTUK, Kakinada in respect of various activities taken up and submit a report to him.

S. No	Date	Name Of The Activity
1	22-05-2024	Environmental Conservation
2	13-05-2024	Plastic Free Awareness Campaign
3	12-04-2024	Child Marriage Prevention awareness program
4	02-02-2024	Environmental Conservation
5	19-01-2024	Plastic Free Awareness Campaign
6	20-12-2023	Road Safety Awareness Program
7	31-10-2023	Blood Grouping Camp
8	30-10-2023	Distribution Drive for blanket and Essential Items
9	19-10-2023	Awareness Campaign on Pollution control
10	06-10-2023	Swatch Bharath
11	08-09-2023	Rally on importance of Literacy
12	03-08-2023	Plastic Free Awareness Campaign
13	19-07-2023	Awareness Campaign on Sanitation

Table 9.7.1.4: NSS activities for the Academic Year 2023-24

Figure 9.7.1.1: Sample images of NSS Activities (Annexed Separately)

Association Activities

- Departmental association activities are conducted twice in a week for II, III&IV B.Tech. Students.
- To conduct these activities two faculty members are allocated for each section to perform the association activities effectively
- The main objective of the association activities is to impart various skills in activities such as brain teasers, group discussions, etc to make students excel in their carrier guidance.

Class	Activity Name
B. Tech – II, III & IV	My Goal/ My Destination/ My Ambition, JAM, Techie Talk, Do society needs engineer, Sell self, Device description, Book talk.

9.7.2 Sports:

The Institution has a sports ground. There are well equipped gymnastics and sports kits. Students are encouraged to participate in various zonal and inter-zonal tournaments. Students participate in inter and intra collegiate and University tournaments. Sports day is celebrated with various indoor & outdoor sports Long Jump, Volleyball, Table Tennis, Cricket, Basket Ball, Chess, and Carrom. both for staff and students, as part of recreation.

Aim:

For the overall development of a professional to be placed in the highest realms, they have to be physically, mentally, emotionally and intellectually top in their field. Our institute provides excellent sporting facilities and intensive sport programs to make the students improve in all situations and circumstances.

Objectives:

- To improve physical fitness and strength
- To improve competitive spirit
- Motivate the students to involve in physical activities and sports
- Feeling the sense of wellness of the students and staff by participating in sports.
- To make the students participate in the tournaments and loyalty to the college.

- To develop leadership quality and overall development by involving in sports

A well-qualified physical director will manage all sport activities like

- Cricket
- Volleyball
- Shuttle (Boys & Girls) – Singles & Doubles
- Chess (Boys & Girls)
- Carroms (Boys & Girls) – Singles & Doubles
- Tennikoit (Girls) – Singles & Doubles
- Throw Ball (Girls)

Physical Director Details:

Name of Physical Director	A. EMNANUYELU
Qualification	M.PEd
Designation	Physical Director

Table 9.7.2.2: Details of Physical Director

9.7.3 Arts/Cultural/Literary & Hobby Club Functions of the Cell:

- To bring out hidden talents of the students.
- To increase the social relationship in the college hence to mingle with society.
- To encourage the students to express their inner feelings to the outside world.
- To make the students more active in their academics by providing a platform for recreation and self-expression

Composition of the Committee:

S.No	Name	Designation	Department
1	Dr. Ch. Mallikarjun	Chairman	Principal
2	Mr. N Sai Sravya	Coordinator	BS&H
3	Mrs. Ch Rekha	Member	CSE
4	Mrs. T Pavani	Member	CE
5	Mrs. Shaik Kasim Bee	Member	ECE
6	Mrs. P Koteswaramma	Member	EEE

Table 9.7.3.1.1: Faculty members in committee (Arts/Cultural)

S.No	Roll Number	Name of The Student Member	Department
1	21HM1A0104	Mr. K Nani	CE
2	21HM1A0208	Mr K Lokesh	EEE
3	21HM1A0418	Miss. N Koteswari bai	ECE
4	21HM1A0520	Miss G Sireesha	CSE
5	21HM1A5918	Miss N Sindhu Priya	CS
6	21HM1A3519	Miss Y Jhansi	AGE

Table 9.7.3.1.2: Student members in committee (Arts/Cultural)

Roles and Responsibilities:

- The committee seeks to create a platform that provides the students with an opportunity to display creative talents in a variety of ways. Coordinator and faculty members shall discuss and decide the year plan for the events.
- Coordinator assigns responsibilities for faculty and students.
- Coordinator and members shall estimate the budget for an event to be conducted.
- Coordinator and faculty members coordinate with the students and conduct events committee coordinator solves the indisciplinary issues and takes necessary measures.
- Coordinator shall select and nominate few of the students members for the discipline committee.

Functions:

- The Cultural Committee shall be responsible for all intra and inter collegiate cultural events in the College.
- To prepare annual budget for all cultural events and take necessary steps for its approval.
- To obtain formal permission from the College authorities to arrange program to decide the date, time and agenda of the program.
- To inform members of staff and students about the event to arrange the venue and logistics (audio/video system, dais, podium etc).
- To invite the Chief Guest and other dignitaries.
- To arrange mementos for guests and gifts/certificates for the participants.

S.No	Date	Name of The Event	No of participant's	Venue
1	26-08-2024	Krishnastami Celebration	211	Ground
2	05-10-2024	Dusshera Utsavalu	400	Ground
3	09-11-2024	Secretary Madam Birthday Celebration	486	Ground
4	07-12-2024	Diploma Freshers Day	222	Seminar hall
5	21-12-2024	Semi- Christmas Celebration	324	Ground
6	10-01-2025	Sankranthi Samburalu	412	Ground

Table 9.7.3.2Events or Activities held by A&C Cell for academic Year 2024-2025

Image Gallery

Figure 9.7.2. : Image gallery of Events conducted under Arts and Cultural



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 : To cultivate engineers into global leaders equipped with unwavering psychological resilience, profound emotional intelligence, and unwavering ethical integrity.
Mission :
MISSION : M1: To delivering innovative and immersive educational experiences tailored to the needs of engineering students. M2: To advance research and development through cutting-edge laboratories and state-of-the-art equipment. M3: To nurture a culture of entrepreneurial spirit, fostering creativity and innovation among our engineering graduates. M4: To promoting environmental sustainability and social responsibility by integrating ethical and emotional education into our curriculum.

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

Institute Marks : 10.00

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

- The college has a governing body which has a Principal as the Member Secretary, which meets at least twice in a year and has the following responsibilities:
- To provide effective leadership to enhance the quality and performance of the institution.
- To motivate, empower and encourage the staff to prepare and implement the quality policy.
- To encourage the innovation and excellence in all departments of the institution.
- To provide Institutional benefits to the faculty and staff involved in preparation and implementation of quality policy and plans.
- To provide research facilities for the benefit of staff and students.
- To provide necessary manpower and infrastructure for the scrupulous implementation of quality policy and plans.
- To extend the authority, support and freedom to all the staff engaged in implementation of quality plans.
- To consult the Principal, stake holders and other experts (in-house as well as outside) on all matters for enhancing the quality of Institutional activities.

Members of Governing body of A.M. Reddy Memorial College of Engineering and Technology

Sl. No.	Name, Designation & Address of the Members	Designation	Postion
1	Sri. Atluri Srinivas Reddy	President, A.M.Reddy Group, Association Board of Governance	President
2	Sri. B Ramanuja Reddy	Vice-President, A.M.Reddy Group, Association Board of Governance	Vice President
3	Smt. Atluri Santhi Srinivas Reddy	Secretary & Correspondent, , A.M.Reddy Group	Secretary
4	Smt. A Mahalakshamma	Joint Secetary, A.M.Reddy Group, Association Board of Governance	Joint Secretary
5	Smt. Vajarala Anasuya	Treasurer, A.M.Reddy Group, Association Board of Governance	Treasurer
6	Prof. K Ravindra,	Professor, Department of EEE, JNTU Kakinada	State Govt. Nominee
7	Dr. N Balaji,	Professor, Department of ECE, UCEK, JNTUK Kakinada	University Nominee
8	Dr. Ch. Mallikarjun	Principal, A.M.Reddy Memeorial College of Engineering and Technology	Principal & Member Secretary, (Ex- Officio)
9	Mr. Ch Sreeram Reddy,	CEO, Sailotech , Hyderabad	Industrialist
10	Mr. Navuru. Dilip kumar,	Deputy Project Manager in projects, DEC infra India private limited	Industrialist
11	Dr. K. Krishna Reddy,	HoD, EEE	Senior Faculty Member
12	Dr. K. Sreekar Chand,	HoD, Civil & IQAC coordinator	Senior Faculty Member
13	Mrs. Ponnapati Venkata Padmavathi	Executive Member, A.M.Reddy Group, Association Board of Governance	Executive Member

10.1.1.1. Administrative Setup:

A.M.Reddy Memeorial College of Engineering and Technology is committed to achieving global standards and excellence in teaching, research, and consultancy by creating a conducive environment in the fields of technical, managerial, and professional professionalism with a global outlook, ensuring continuous improvement.

Figure 10.1.2.1: Organizational Chart (Annexed Separately)**Functions of Key Administrative Positions:**

Secretary & Correspondent	To look after the overall development of the institute, in tune with its vision and mission
	Mobilize external resources to strengthen the institute
	Plan & provide necessary facilities / equipment for development of infrastructure
	Instil devotion to duty in every member of the institute and ensure confidence in all the stake holders

Principal	To determine the quality policy, educational character and mission of the institute and for oversight of its activities.
	To prepare Infrastructure development plans
	To prepare and get approved the Budget proposals
	To improve the quality of publications, quality of website and research activities of the institute.
	To maintain and enforce strict discipline in the campus.
	To collaborate with the industry and undertake developmental activities that are mutually beneficial.
	To conduct internal and external examinations as per the guidelines and academic calendar of the affiliating university.
	To ensure that adequate opportunities are available for students in co- curricular and extra-curricular activities
	To achieve maximum number of placements for the students
	To arrange Faculty development programs
	Encourage faculty to acquire additional qualifications
Heads of Department	Plan and execute academic activities of the department
	Maintain the facilities and equipment always in good conditions
	Maintain discipline throughout the department
	Arrange workshops, symposiums, seminars, guest lectures etc., for the benefit of faculty and students
	Encourage the students to undertake Research, development and project activities for their career growth
	Ensure that the students actively participate in the curricular, co- curricular and extra-curricular activities
	Timely completion of academic activities of the department Prepare Department Budget and procure the approved items
	Maintain records of departmental activities and achievements

Table 10.1.2.2.1: Functions of key administration positions of AMRMCET

Arts and Cultural Committee
Functions:
The arts & cultural committee brings out the hidden talents of student by organizing the arts & cultural programs.
The cultural committee shall be responsible for all intra and inter collegiate cultural events. To plan and schedule cultural events for the academic year by delegating various tasks to the members of the committee and the students.
To communicate about various events to be celebrated in the college and post the related information on the website or on notice board.
Arranging events/programmes for staff and students in coordination with administration. The committee coordinator convenes meeting for the committee members to discuss and delegate tasks.
The committee is also responsible to design and finalize the list of cultural events, participants related to the specific cultural program
The committee prepares and maintains records for all cultural activities
NSS Committee
Functions:
Identifying the needs and problems of the community / society and make the students to involve to solve the problems.
Developing the civic and social responsibility.
Utilizing the knowledge in finding practical solutions to individual and community problems. Developing the required competence to mingle with others and sharing the responsibilities. Making to obtain the skills for mobilizing the community participation.
Preparing the students to acquire leadership qualities and democratic attitudes. Developing the strengths to meet emergencies and natural disasters.
Making the practice of national integration and social harmony.
Entrepreneurship Development & Innovation and Incubation Cell
Functions:
To organize Entrepreneurship Awareness Camps, Entrepreneurship Development Programmes, Awareness programs and Seminars in the region for the benefit of S&T persons.
To guide and assist prospective entrepreneurs on various aspects such as preparing project reports.
To arrange visits to industries for prospective entrepreneurs
To act as a Regional Information Centre on business opportunities, processes, technologies, market, etc.
To conduct skill development training programmes leading to self employment.
Industry Institution Coordination Cell (IIC)
Functions:
Computer Maintenance is the practice of keeping computers in a good state of repair. Install an antivirus program to protect it.
Daily duties may include fielding inquiries, running Hardware diagnostic tests to resolve issues and installing updates to existing software and hardware.
Keep Computers in Good Working condition.
Find a problem with a computer, diagnose equipment and troubleshooting procedures to resolve the issue and get the computer back in working order.
Checking printers, scanners and other equipment to make sure that they are working properly.
To Maintain and troubleshoot Networking Issues.
Examination Cell
Functions:
Examination Cell serves all Examination notices received from University to all concerned. Examination cell prepares Circulars for students regarding Exam Fee Collection, the last date of fee Collection, modalities of payments of fine etc.
Examination cell takes necessary steps for distribution of Answer sheets to the concerned teachers after completion of the internal exam and receiving the answer sheets, award list, and preparing in the desired format to send them to University.

Examination Cell takes all precautions while preparing Examination Time table, Invigilation duties, seating plans for the students in the Examination halls, smooth conduct of Examinations etc.
Examination Cell mobilizes the proper staff during the Examination time, and assigning them duty as per the invigilation duties already prepared.
Examination Cell staff collects Marks Memos of various examinations from the University and they distribute them to the corresponding students.
Examination Cell keeps all records pertaining to examinations.
Examination Cell staff addresses grievances of administration, faculty, staff and students on all examination related issues.
Transportation Committee
Functions:
Arranging the transport facility for all students and staff from college to different areas and vice versa.
Maintaining periodically all the buses and respond immediately to major repairs if any. Checking periodically the log books maintained by the drivers
Arranging transport facility for the students and staff for any educational tour, visit for sports competitions etc.
Time management of buses.
Internal Quality Assurance Cell (IQAC)
Functions:
Development and application of quality benchmarks/lesson plans, course coverage, course files etc. for the various academic and administrative activities of the Institution.
Facilitating the creation of a learner-centric environment conducive for quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process.
Arrangement for feedback responses from students, parents and other stakeholders on quality- related institutional processes.
Dissemination of information on the various quality parameters of higher education; Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles.
Development and maintenance of Institutional database through software for the purpose of maintaining /enhancing the institutional quality.
Development of Quality Culture in institution.
Preparation of the Annual Quality Assurance Report (AQAR) of the institution based on the quality parameters/assessment criteria developed by the relevant quality assurance body (like NAAC, NBA) in the prescribed format.
In pursuance of the National Action Plan of the National Assessment and Accreditation Council (NAAC), Bangalore, IQAC shall act as the Documentation and Record-Keeping cell, including assistance in the development. In order to facilitate the process, all teachers shall submit the duly filled-in the given Performa to the IQAC annually.
Any other assignment by the principal.
Press Media and Publicity Committee
Functions:
Understanding the needs of the community and making the students themselves to relate with the work.
Identifying the needs and the problems of the community and make the students to involve to solve the problems
Utilizing the knowledge in finding practical solutions to individual and community problems.
Preparing the students to acquire leadership qualities
Help all the users to develop the skills to make optimum use of all the facilities
To work efficiently and effectively by under taking every activity in a professional manner. Developing the civic and social responsibility.
Maintaining periodically all the press notes and immediately sent to all the departments.
Sports and Games Committee
Functions:
To encourage the students to participate very actively in organising and conducting various sports and games in the college.
To motivate the students to actively participate in various sports and games competitions outside the college.
To develop the spirit of sportsmanship among students.
To make the students aware about the benefits of physical exercise to maintain a good physical and mental health
To sort out any sports related issues.
To schedule events/planner for the academic year in consultation with the Student's representative and management.
To inculcate the value of keeping good health and mind by participating in lectures / seminars related to Sports & Games.
Training, Placement and Career Guidance Committee
Functions:
Interaction between industry and institute. Campus Recruitment Training to students. Arranging Campus Interviews to students. Guest lecturers by eminent industry experts Counseling and Personality Development.
Conducting Mock Interviews and Group Discussions.
Student Grievance Redressal Committee
Functions:
The institute has an efficient mechanism for students to express their grievances freely.
To take up and address each grievance from all possible angles through meetings and site visits.
To conduct enquiries into all grievances in an impartial manner and ensure justice to the effected persons.
To ascertain the root cause of each grievance, recommend suitable action for resolving each grievance in the shortest time possible.
To recommend remedial measures for avoiding similar grievances in future.
To work in coordination with other redressal forums like sexual harassment committee, student welfare committee etc., arrange guest lectures, demonstrations etc. for increasing the awareness among all the stake holders
Website Development Committee
Functions:
Provide and solicit appropriate content for the web pages. Present the content in a timely and user friendly manner.
The web committee helps to facilitate development and keep up of an active web page which reflects the purposes and activities of the society.
Ensure the department activities are posted within one day of the event. Responsible for site updates, site content and create webmail for all departments.
Anti-Ragging Committee
Functions:
Displaying the charts and other material stating evil nature, punishment of ragging and also students discipline.
Creation of cordial and free atmosphere.

Involving seniors and freshers jointly in value based cultural and other activities. Entrusting the responsibilities jointly.
Inter-action and casual warning.
Ensuring the spot solutions by adopting soft measures. In case of need, reporting to the nearest police station.
Internal Complaints Committee (ICC)
Functions:
To enhance the self esteem and self confidence of girl students, faculty and staff in the college
To promote intellectual and cultural activities for over all personality development of women To develop critical thinking ability of women students such that it enhances critical thinking ability
To enhance participation of girl students on an equal footing in all areas.

Table 10.1.2.2.2: Decentralization of power for smooth running of academics & administration

10.1.2.3. The rules and policies of AMRMCET

Selection Procedure & Rules:

- The qualification required for filling a post shall be such as may be determined by the CAC from time to time taking into consideration the norms prescribed by Government of Andhra Pradesh/University/AICTE.
- The Governing Body shall have the power to decide whether a particular post will be filled by open advertisement or by an invitation from amongst the members of the existing staff in conformity with University Rules and Regulations.
- All teaching staff posts from Assistant Professor and above and any other post classified as teaching staff shall be filled up by open competition. The selection will be based on the recommendations of the Staff Selection Committee duly constituted as per the norms of the Affiliating University.
- All other teaching staff posts and non-teaching posts, shall be based on the recommendations of the Staff Selection Committee duly constituted from time to time.
- The Selection Committee interview the candidates invited for interview and make its recommendations to the Governing Body, the names of the selected candidates being arranged on order of merit. The Selection Committees may recommend more names than the number of posts for which applications are invited or may reject all the applicants. However, the appointment orders are issued in the order of merit.
- No act or proceedings of any Selection Committee shall be questioned on the ground, merely, of any member of the Selection Committee.
- The procedure adopted by the Selection Committee in selecting the candidates shall not be questioned as improper or irrelevant or unfair.
- The Governing Body may in special circumstances appoint persons (Eg. Retired persons) on contract basis, year after year up to the age of 65 years, in case of teaching posts. Any other instruction given, or rule prescribed, from time to time by Govt. of Andhra Pradesh / Affiliating University / AICTE regarding selection procedure will automatically form part of the rules/procedure of selection.

APPOINTMENTS

The Chairman of GB shall be the authority in approving all appointments based on the selection committee. All orders will be issued by Principal.

Pay, Allowance & Increments:

- U.G.C 6th scales of pay fitment in accordance with Institution tuition fee of pay, as applicable from time to time, shall be adopted to posts classified as teaching staff, but, subject to approval of the Governing Body.
- The scales of pay as approved by the Governing Body shall be adopted for all posts not falling under the category of teaching staff.
- Dearness and House Rent Allowances as per A.P. State Government rates shall be adopted, but subject to approval of Governing Body.
- Unless otherwise stated in the appointment order, an employee on appointment shall be eligible to draw pay at the minimum of time scale of pay for the post. However, in case of appointment by promotion from a lower post, his pay in the lower post at the time of promotion shall be protected in the time scale of pay of the higher post.
- All service in a post on time scale of pay shall count for eligibility for increment.
- Leave granted shall be counted as service for the purpose of eligibility for increment. But leave granted on loss of pay, if it is for more than seven days, shall not be counted as service for the purpose of eligibility of increment. If leave on loss of pay is granted for more than seven days, the date of subsequent increment is postponed by as many days as he was on leave on loss of pay.
- The Governing Body shall have the authority to withhold an increment for a certain period not exceeding one year as a disciplinary measure for sufficient and valid reasons and after the employee has been afforded a fair opportunity to defend. However, such withholding of an increment will not have cumulative effect. When an increment is withheld for a certain period, this period shall be exclusive of any interval spent on leave on loss of pay, if it is for more than seven days.

Conduct Rules:

- Every employee shall be governed by these rules and is liable for consequences in the event of any breach of rules by him/her.
- Every employee, at all times, maintains integrity, be devoted to his duty and also be honest and impartial in his/her official dealings. An employee shall, at all times be courteous and polite in his/her dealings with the Management, with other members of staff, students and with members of the public. He shall exhibit/utmost loyalty and shall always, act in the interests of the college.
- An employee shall be required to observe the scheduled hours of working during which he/she must be present at the place of his/her work. No employee shall be absent from duty without prior permission. Even during leave or vacation, no employee shall leave head-quarters except with the prior permission of proper authority. Whenever leaving station, an employee shall inform the Principal, in writing, through the respective HOD or the Principal directly if he happens to be a HOD, the address at which he/she would be available during the period of his/her absence from the head-quarters.
- No employee shall make any statement, publish or write through any media which has the effect of an adverse criticism of any policy or action of the college or detrimental to the interests of the college.
- An employee against whom an Insolvency Proceedings commenced in the court of Law shall forthwith report full facts thereof to the college.
- An employee against whom Criminal Proceedings are initiated in a Court of Law shall immediately inform the competent authority of the college regarding the details thereof.
- No employee shall, except with prior permission of the competent authority, have recourse to law or to the press for the vindication of any official act of the college which has been the subject matter of criticism or attack of defamatory character.
- Whenever an employee wishes to put forth any claim or seeks redressal of any grievance he/she must forward his/her case in writing through proper channel to the competent authority and shall not forward any such advance copies of his/her application to any higher authorities unless the competent authority has rejected the claim or refused redressal of the grievance or has delayed the matter beyond a reasonable time.
- An employee who commits any offence or dereliction of duty or does an act detrimental to the interests of the college is subjected to an enquiry and punishment by the competent authority. However, any employee aggrieved with the decision of the competent authority may appeal against such punishment or decision within 15 days of the receipt of the orders of the decision to the Governing Body, thereon, is final and binding on the employee.
- No employee shall engage in strike or incitements there to or similar activities such as absence from work or neglect of duties or participate in hunger strike etc. Violation of this rule will amount to misconduct and attracts deterrent punishment.

10.1.3 Decentralization in working and grievanceredressal mechanism (10)

Institute Marks : 10.00

10.1.3. Decentralization in working and grievance redressal mechanism (10)

Decentralization in Working

The institution vision and mission as well as the decisions of the Governing Body are implemented by the principal with the help of various heads of the department, committee coordinators.

S.No	Name of the HoD / Dean	Department / Area
1.	Dr. G Bhaskar Reddy	BS&H
2.	Dr. Merugu Anand Kumar	CSE
3.	Dr. K Sreekar Chand	CE
4.	Mr. P S K Ganesh	ECE
5.	Mr. G Mastan Reddy	EEE
6.	Mr. K Vijay Kumar	MECH

Table 10.1.3.1: Details of implementation of delegation of power for smooth running

For ensuring participation of faculty, staff, students and other stakeholders, a number of Committees are constituted for progressing the institute functions as indicated below.

S. No.	Name of the Committee	Coordinator
1.	Governing Body	Principal-Member Secretary
2.	College Academic Committee	Principal-Member Secretary
3.	IQAC	Dr. K Sreekar Chand
4.	Students Grievance Redressal Committee	Mr. V V B Chari
5.	Research & Development Committee	Dr. K Krishna Reddy
6.	Library Committee	Mrs. P Shailaja
7.	Website Development Committee	Mr. M Bharath
8.	IT Infrastructure Committee	Mr. A Madhava Reddy
9.	Anti-Ragging Committee	Dr. G Bhaskar Reddy
10.	Social Welfare (SC / ST) Committee	Mr. K Sanjeeva Rao
11.	Hostel Committee	Mr. P Sudheer Kumar
12.	NSS Committee	Mr.G Masthan Reddy
13.	Press, Media & Publicity Committee	Mr. Sk Meeravali
14.	Admissions Committee	Mr. G Koteswar Rao
15.	Student Counseling Committee	Mr. K Vijay Kumar
16.	Industry Institution Coordination (IIC) Cell	Mr. P Nagur Meeraiah
17.	Internal Complaint Committee (ICC)	Mrs. T Deepthi
18.	Training, Placement & Career Guidance Committee	Mr. P Nagur Meeraiah
19.	Professional Societies Coordination Committee	Mr. P S K Ganesh Kumar
20.	College Time Table Committee	Dr. K Sreekar Chand
21.	Examination Cell	Mr. N Anjineyulu and Dr. K Sreekar chand
22.	Transportation Committee	Mr. K Ramu
23.	Campus Maintenance Committee	Mr. K Krishna Reddy
24.	Sports & Games Committee	Mr. Emanuel
25.	Medical Cell	Dr. Ashok Reddy
26.	Faculty Grievance & Redressal Committee	Mr. N V Krishna Reddy
27.	Arts & Cultural Committee	Mr. N Sai Sravya
28.	Finance Committee	Mr. M Koti Reddy
29.	Entrepreneurship Development & Innovation and Incubation Cell	Mr P S K Ganesh Kumar
30.	Co-Curricular Activities Cell (Student Association Committee)	Mr. N Hanumanth Rao
31.	Canteen / House Keeping/ Sanitation/ Food Safety Cell	Mr. K Bhaskar Rao
32.	Alumni Coordination Cell	Mr. P Sudheer Kumar

Table 10.1.3.2: List of Institution Level Committees/Cells and its coordinators for A.Y. 2023-2024

ANTI – RAGGING COMMITTEE:

Functions:

- To publicize to all students and relevant directives and the actions that can be taken against those indulging in Ragging. Constitute anti- ragging committees/squads to make surprise visits and takes effective steps prevent ragging.

- Oversee the procedure of obtaining undertaking from the students in accordance with the provisions. Construct workshops against ragging menace and orient the students.
- To Provide students the information pertaining to contact address and telephone numbers of the person(s) identified to receive complaints/distress calls. To take all necessary measures for prevention of ragging inside the campus/Hostels.

Facilities:

- Seminar hall with 500 capacity.
- Smart Class room for committee meetings and discussions, Board Room.
- Having computer system With Internet facility. Printer to get the Xerox copies.

Composition & Committee Members:**Committee Composition:**

1. Principal - Chairman
2. One Senior faculty / HoD
3. HoDs
4. MRO
5. Revenue Inspector
6. Police Department (CI & SI)
7. One News Reporter
8. Six Students and 4 Parents

Committee Members

Sl. No	Name	Designation	Department
1	Dr. Ch Mallikarjun	Chairman	Principal
2	Dr. G Bhaskar Reddy	Coordinator	BS&H
3	Dr. K Sreekar Chand	Member	CE
4	Mr. G Masthan Reddy	Member	EEE
5	Mr. K Vijay Kumar	Member	MECH
6	Mr. P S K Ganesh	Member	ECE
7	Mr. V V B Chari	Member	CSE
8	Mr. K. Venugopala Rao	Member	MRO-Narasaraopet
9	Mr. Ramesh Babu	Member	Revenue Inspector
10	Mr. P. Rama Krishna	Member	CI-Narasaraopet
11	Mr. Ch. Kishore	Member	SI-Narasaraopet
12	Mr. Ramanjaneyulu	Member	Reporter, Sakshi
13	Miss. R Mani Deepthi	Member	Student
14	Mr. S Karthik	Member	Student
15	Mr. B Gowri Sankar	Member	Student
16	Miss. M Bhargavi	Member	Student
17	Mr. B Naga Jagadish	Member	Student
18	Miss. Sk Meera Jasmine	Member	Student
19	Mr. A Kiran Kumar	Member	Parent
20	Mr. T. Venkata Rao	Member	Parent
21	Mr. M. Madhusudhan Rao	Member	Parent
22	Mr. B. Narasimha Rao	Member	Parent

Table 10.1.3.3.1 : Anti ragging committee and its members for the Academic year 2023-24**Roles & Responsibilities:**

The Institute has set up an Anti-Ragging Committee under the leadership of the Head of the Institute to ensure that measures for prevention of ragging and monitoring mechanisms are in place. There are also provisions for actions to be taken against students for indulging in and abetting ragging.

- Vigilant at all hours all around the campus and other places vulnerable to incidents of and having the potential of ragging and shall be empowered to inspect such places.
- Make surprise raids at all places vulnerable to incidents along those that are having the potential for ragging.
- Conduct an on-the-spot enquiry into any incident of ragging referred to it by the faculty or student or parent or guardian as the case may be, and submits the enquiry report along with recommendations to the Head of the Institution for immediate action.
- Ensure the display of Anti-Ragging posters on Institutional and departmental Notice Boards and other prominent places of students' movements.
- Ensure measures to see that Anti-Ragging Squad regularly makes rounds in the campus to effectively monitor the students behaviour in the campus.
- Offer services of counselling and create awareness to the students on the impacts and consequences of Ragging.
- Set up a Suggestion Box and place it in the college to help the students to drop complaints or any kind of problems.
- Initiate timely action against students violating / erring the Anti-Ragging Policy.
- Sensitize students about the evils of ragging and its prevention in the Campus by organizing Awareness talks/ programs.
- Address complaints about ragging as per the Govt. and University procedures.
- Maintain the records and file all the activities conducted and submit the same to the IQAC Committee.

Year Planner for the Academic Year 2024-25 (CAY)

S. No.	Name of the event	Date/dates	Name of the Organization	Department
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1.	Anti Ragging Awareness Program	13-10-2024	Police department	I & II B Tech Students
2.	Personality development program	16-11-2024	Motivational speaker	I & II B Tech Students

Table – 10.1.3.3.1. Year Planner for the Academic Year 2024-25 (CAY)

Events / Activities Organized for the Academic Year 2024-2025 (CAY)

S. No.	Name of the Faculty	Area / Topic	Resource Person	Course / Class	Date / Dates	No. of participants
1.	Dr G Bhaskar Reddy	Anti Ragging Awareness Program	Mr. Ch. Kishore	I & II B Tech Students	13-10-2024	186
2.	Dr G Bhaskar Reddy	Anti Ragging Awareness Program	P Aravind Kumar	I & II B Tech Students	16-11-2024	148

Table – 10.1.3.3.2. Events / Activities Organized for the Academic Year 2024-2025 (CAY)

Year Planner for the Academic Year 2023-2024 (CAYm1)

S. No.	Name of the event	Date/dates	Name of the Organization	Department
1.	Anti Ragging Awareness Program	01-11-2023	Police department	I & II B Tech Students
2.	Personality development program	03-12-2023	K Chaitanya Naidu Motivational speaker	I & II B Tech Students

Table – 10.1.3.3.3. Year Planner for the Academic Year 2023-2024 (CAYm1)

Events / Activities Organized for the Academic Year 2023-2024(CAYm1)

S. No.	Name of the Faculty	Area / Topic	Resource Person	Course / Class	Date / Dates	No. of participants
1.	Dr G Bhaskar Reddy	Anti Ragging Awareness Program	Mr. Ch. Kishore	I & II B Tech Students	01-11-2023	112
2.	Dr G Bhaskar Reddy	Anti Ragging Awareness Program	K Chaitanya Naidu	I & II B Tech Students	03-12-2023	131

Table – 10.1.3.3.4. Events / Activities Organized for the Academic Year 2023-2024(CAYm1)

Year Planner for the Academic Year 2022-23 (CAYm2)

S. No.	Name of the event	Date/dates	Name of the Organization	Department
1.	Anti Ragging Awareness Program	02-11-2022	Legal Authorities	I & II B Tech Students
2.	Personality development program	16-11-2023	P Raghavendra Reddy Motivational speaker	I & II B Tech Students

Table – 10.1.3.3.5. Year Planner for the Academic Year 2022-23 (CAYm2)

Events / Activities Organized for the Academic Year 2022-202 (CAY2)

S. No.	Name of the Faculty	Area / Topic	Resource Person	Course / Class	Date / Dates	No. of participants
1.	Dr G Bhaskar Reddy	Anti Ragging Awareness Program	Mr. B Jagadeesh Kumar	I & II B Tech Students	02-11-2022	82
2.	Dr G Bhaskar Reddy	Anti Ragging Awareness Program	A Kishore Babu	I & II B Tech Students	16-11-2023	79

Table – 10.1.3.3.6. Events / Activities Organized for the Academic Year 2022-202 (CAY2)

Year Planner for the Academic Year 2021-2022 (CAYm3)

S. No.	Name of the event	Date/dates	Name of the Organization	Department
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1.	Anti Ragging Awareness Program	10-Aug-2021	Legal Authorities	I & II B Tech Students
2.	Personality development program	03-11-20221	P Raghavendra Reddy Motivational speaker	I & II B Tech Students

Table – 10.1.3.3.7. Year Planner for the Academic Year 2021-2022 (CAYm3)

Events / Activities Organized for the Academic Year 2021-2022 (CAY3)

S. No.	Name of the Faculty	Area / Topic	Resource Person	Course / Class	Date / Dates	No. of participants
1.	Dr G Bhaskar Reddy	Anti Ragging Awareness Program	Mr. M Krishna Jayanth Reddy	I & II B Tech Students	10-Aug-2021	101
2.	Dr G Bhaskar Reddy	Anti Ragging Awareness Program	M Appa Rao	I & II B Tech Students	03-11-20221	111

Table – 10.1.3.3.8. Events / Activities Organized for the Academic Year 2021-2022 (CAY3)

Internal Complaints Committee (ICC)**Functions:**

- To develop a policy against sexual harassment of women at the Institute.
- To evolve a permanent mechanism for the prevention and redressal of sexual harassment cases and other acts of gender-based violence at the Institute.
- To ensure the implementation of the policy in letter and spirit through proper reporting of the complaints and their follow-up procedures.
- To uphold the commitment of the Institute to provide an environment free of gender-based discrimination.
- To create a secure physical and social environment to deter any act of sexual harassment.
- To promote a social and psychological environment to raise awareness on sexual harassment in its various forms.

Composition & Committee Members:**A. Committee Composition**

- Principal as chairperson.
- One senior faculty member as coordinator.
- One faculty from each department.
- One external member
- One final year student from each department.

B. Committee Members

S. No.	Name	Designation	Department
1.	T Deepthi	Coordinator	BS&H
2.	G Madhavi	Member	CE
3.	B Roja Lakshmi	Member	CSE
4.	P Koteswaramma	Member	EEE
5.	P Shailaja	Member	Library
6.	Raja Lakshmi	Member	Non- Teaching
7.	G Anasuya	Member	Social Activist
8.	G Soniya	Student Member	CE
9.	K Sravani	Student Member	EEE
10.	P Deevika	Student Member	ECE
11.	Ch Ramya	Student Member	CSE

Table 10.1.3.4 .1 Committee Members

Roles & Responsibilities**Coordinator :**

- Providing safe work and academic environment for staff and students respectively. Providing indisputable justice against all genders who are involved in an incident. Working towards achieving gender equity and empowering the women students and staff.
- Publicizing the rules against Sexual Harassment display the policy at various locations in college Displays the name & phone numbers of the committee members to whom can be reached for a complaint

Faculty members:

- Conducting awareness programs for students and staff on gender equity, woman health, safety & security and sexual harassment. Creates a mechanism for registering the complaints.
- Conduct inquiries and facilitates redressal of the complaints. Recommends follow-up action & monitoring to the concerned authorities
- Provides appropriate emotional & psychological support to the victims in the form of counseling, security.

Student members:

- Receive the complaints of sexual harassment.
- Initiate the inquiry and submit the findings from the inquiry done. Direct the employer to undertake required actions.

Year Planner for the Academic Year 2023-2024 (CAYm1)

S.No.	Name of the event	Date/dates	Resource Organization
1	Motivational Talk on Women Empowerment	July 4 th week.	Secretary Madam
3	Awareness on Cancer	October 3 rd Week	Lalitha Hospital Guntur
4	Seminar on Cyber Crimes	December 1 st Week	Mr. K Pradeep, Certified Cyber Crime Intervention Officer, NSB
5	Seminar-Health Management	December 3 rd Week	Local NGOs
6	Social Responsibility-Seminar	March 2 nd Week	Local NGOs and Police department

Table 10.1.3.4.2 Year planner of Internal Complaints Committee for academic year 2023-2024

Events / Activities Organized for the Academic Year 2023-24 (CAYm1)

S.No	Name of the faculty	Area/Topic	Resource person	Class/Course	Date/Dates	No of Participants
1	Mrs Uma Suseela	Identification of Abusive Relationships and Prevention of Domestic Violence	Ms. Sathya Vijana Devi, Mr. RangaSai.Dr. G. Srividhya, Dr. Subhash, Mrs. K. Latha	CS, CSE, AGE, ECE, EEE, ME, & CE	22/03/2024	102

Table 10.1.3.4.3 Events/Activities Organized by Internal Complaints Committee for academic year 2023 – 2024

Events / Activities Organized for the Academic Year 2022-23 (CAYm2)

S. No	Name of the faculty	Area/Topic	Resource person	Class/Course	Date/Dates	No of Participants
1	Mrs. Ramya Swetha	Awareness Program on Women Safety	Ms. Sathya Vijana Devi, Mr. RangaSai. Dr. G. Srividhya, Dr. Subhash, Mrs. K. Latha	CS, CSE, AGE, ECE, EEE, ME, & CE	7/11/2022	93

Table 10.1.3.4.4 Events/Activities Organized by Internal Complaints Committee for academic year 2022 – 23

Events / Activities Organized for the Academic Year 2021-22 (CAYm3)

S.No	Name of the faculty	Area/Topic	Resource person	Class/Course	Date/Dates	No of Participants
1	Mrs. S. Koteswari	Empowering Women and Girls in Engineering	Ms. Sathya Vijana Devi, Mr. RangaSai. Mrs. Y. Nagalakshmi	CS, CSE, AGE, ECE, EEE, ME, & CE	5/8/2019	95

Table 10.1.3.4.5 Events/Activities Organized by Internal Complaints Committee for academic year 2021 – 22

Student Counseling Committee:

Functions of the Cell

- A grievance cell is established in this college to resolve any types of disputes among students.
- The college provided many grievance boxes in prominent places.
- Stakeholders will drop the grievance listed in a paper in the box.
- Resolve grievances addressing mechanism available in the college.
- Maintain partiality transparency in grievances addressing mechanism.
- Establish grievance free college enrolment.
- To resolve the disputes prevailing among students or any other issues.
- To create a professional environment for sustainable development.
- Encourage the students to show responsibilities for professional engineering practice.
- To enhance effective communication to showcase grievance verbally or through grievance box.
- Encourage the students to practice disputes free environment.

Facilities of the Cell

- If any person is unwilling to appear in self, grievances may be dropped in writing at the letterbox/ suggestion box of the Grievance Cell across the institute.
- Grievances may also be sent through e-mail to the officer in-charge of Students' Grievance Cell
- Ladies waiting room
- Medical facility.

Composition of Committee Members:

S.No	Name	Designation	Department
1	Dr. Ch. Mallikarjun	Chairman	Principal
2	Mr. K. Vijaya Kumar	Member	ME
3	Mrs. A. Sai Pujitha	Member	CSE
4	Mr. P. Sudheer Kumar	Member	ECE
5	Mr. K. Ramu	Member	CE
6	Dr. D. Anand Babu	Member	AGE
7	Mr. R. Koteswara Naik	Member	EEE
8	Mr. I. Sitarami reddy	Member	BS&H

Table 10.1.3.5.1: Student Counselling Committee and its members for the academic year 2023-24

Role of the Coordinator:

- The facts shall try to redress the grievance within a reasonable time, preferably within a week of the receipt of the complaint.
- If the student is not satisfied with the verdict or solution of the Programme Coordinator, as the case may be then the same should be placed before the Head of the Institution that is Principal.

The principal shall, if necessary, refer the same to the respective College level committee (Students Grievance Redressal Cell) for redressal

- To enlighten the students on their duties and responsibilities to access benefits under the policies.
- To establish structured interactions with students to elicit information on their expectations.

Events Organized:

S. No	Name of the program	Date	Resource person	No. of participants
1	Awareness Program on Breast Cancer	29/08/2023	Dr. N. Rajesh, Lalitha Hospital Guntur	82
2	Health Awareness Camp	09/11/2023	Dr Ramalinga Reddy Maxi vision Super Specialty Hospital Narasaraopet,	90
3	Disha Awareness Programme	23/03/2024	Sri Kanchi Srinivasa Rao, S.P Narasaraopet.	85

Table 10.3.5.2 Events organized by Student Counselling Committee during assessment period

Faculty Grievance Redressal Committee

Functions:

- To conduct Staff meeting at regular intervals for healthy progress in professional Guidance, Career advancement and all-round development.
- To look into the grievances put forward by the women employees of the college irrespective of the complaint against Male or Women employee
- To ensure proper investigation of facts and figures related to the problem.
- To make positive and friendly ways to resolve any Crisis than to punitive steps.
- To maintain a calm and quiet composure and behave in an unbiased and impartial manner. To oversee that the suggestion boxes are set at the right places and complaints are filled and noted in a proper way

Facilities:

- Faculty Grievance & Redressal cell room for committee meetings and discussions.
- Conference hall.
- Having computer system with Internet facility.
- Printer to get the Xerox copies.
- Suggestions Boxes at prominent places.

Management – Composition & Committee Members:

Committee Composition:

- One senior faculty as coordinator.
- One faculty from each department.

Committee Members:

S. No.	Name	Designation	Department
1.	Mr. V. V. B Chari	Coordinator	CSE
2	Mr. A. Durga prasad Rao	Member	ME
3.	Mr. K. Bhaskar Rao	Member	ECE
4..	Mrs. P. Koteswaramma	Member	EEE
5.	Mr. G. Madhavi	Member	CE
6.	Mr. Sk. Karimulla	Member	BS&H
7.	Mr. B. Chinna Babu	Member	AGE

Table 10.1.3.6.1: Faculty Grievance Redressal Committee and its members for the academic year 2023-24

Role & Responsibilities:

Coordinator:

- To Maintain online/ offline submission of Faculty Grievances. Periodical submission of reported Grievances in AICTE online portal, if any, to review the suggestions/complaints raised by the staff.
- To consider and provide the welfare facilities for faculty and staff. To provide the recreational and health care facilities for faculty.

Faculty Member:

- All the grievances of the staff which could not be settled in the routine process should be referred to this committee. Committee tries to settle the issues amicably in a time bound manner.
- Introduces a reasonable and reliable solution for grievances of various issues received from Staff. Ensures that the grievances are resolved on time impartially and confidentially.

10.1.4 Delegation of financial powers (10)

Institute Marks : 10.00

10.1.4. Delegation of financial powers (10)**Delegation of financial powers**

In accordance with the Institution Rules and the management has agreed to delegate the following financial powers to the Principal and Head of the Departments to facilitate them.

S. No.	Designation	Financial Power	Purpose
1	Principal	Rs 1,00,000/-	To purchase consumables, Stationery, Expenditure connected with the conduct of Seminars, Workshops and other petty contingent expenditure connected with academic activity
2	HoD	Rs. 5,000/-	To purchase consumables and other petty contingent Expenditure.
3	Committee Coordinator	Rs.1,000/-	Towards event planning

The Heads of the Department are given an Imprest amount of Rs 5,000 towards the purchase of consumables and other petty contingent expenditure. After that amount is spent and bills are settled another advance amount of Rs 5,000 will be given.

10.1.5 Transparency and availability of correct/unambiguous information in public domain (5)

Institute Marks : 5.00

10.1.5. Transparency and availability of correct/unambiguous information in public domain (5)

The institution communicated its quality assurance policies, mechanisms and outcomes through college magazine, newsletters, publications and website. The entire information about the institution is transparent to all stake holders and is available at website: www.amreddyengineering.ac.in (<http://www.dnrcet.org/>) all the information are available with total transparency of information including circulars, AICTE Compliance Report, events in the Institute, placements, exams and academic calendar etc.

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

Total Marks 30.00

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

Total Income at Institute level: For CFY,CFYm1,CFYm2 & CFYm3

CFY : (Current Financial Year),

CFYm1 : (Current Financial Year minus 1),

CFYm2 : (Current Financial Year minus 2) and

CFYm3 : (Current Financial Year minus 3)

Table 1 - CFY 2024-25

Total Income 40360232.04				Actual expenditure(till...): 56773834.25			Total No. Of Students 1272
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
23472265.19	16887966.85	0	0	33348419.89	23425414.36	0	44633.52

Table 2 - CFYm1 2023-24

Total Income 34982107.52				Actual expenditure(till...): 60375918.24			Total No. Of Students 1392
Fee	Govt.	Grants	Other sources(specify) NA	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
17016451.61	17965655.91	0	0	32311402.11	28064516.13		43373.50

Table 3 - CFYm2 2022-23

Total Income 37900891.48				Actual expenditure(till...): 41496953.03			Total No. Of Students 1602
Fee	Govt.	Grants	Other sources(specify) -	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
20794263.57	17106627.91	0	0	37219433.65	4277519.38		25903.22

Table 4 - CFYm3 2021-22

Total Income 37092880.56				Actual expenditure(till...): 42092198.45			Total No. Of Students 1761
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
16797001.27	20295879.29	0	0	39705413.19	2386785.26		23902.44

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	25200000.00	23425414.36	29000000.00	28064516.13	4900000.00	4277519.38	2850000.00	2386785.26
Library	300000.00	204972.38	240000.00	224516.13	295000.00	262170.54	300000.00	294618.81
Laboratory equipment	120000.00	84917.13	110000.00	99784.95	110000.00	106937.98	1125000.00	1047947.90
Laboratory consumables	40000.00	35138.12	55000.00	46774.19	50000.00	44844.96	55000.00	50719.19
Teaching and non-teaching staff salary	30000000.00	27943005.52	28000000.00	27905273.08	33600000.00	32849119.70	35250000.00	34672279.77
Maintenance and spares	3600000.00	3396685.08	3000000.00	2962365.59	2800000.00	2721744.19	2625000.00	2461372.30
R&D	150000.00	131767.96	120000.00	102903.23	120000.00	102798.45	110000.00	89504.45
Training and Travel	480000.00	439226.52	336000.00	330537.63	385000.00	359104.65	400000.00	395311.31
Miscellaneous Expenses	120000.00	117127.07	110000.00	93548.39	70000.00	58643.41	75000.00	59669.63
Others	1200000.00	995580.11	600000.00	545698.92	840000.00	714069.77	675000.00	633989.83
Total	61210000.00	56773834.25	61571000.00	60375918.24	43170000.00	41496953.03	43465000.00	42092198.45

10.2.2. Adequacy of budget allocation (10)

The yearly budget is prepared according to the needs & requirements of the departments taking into consideration of annual intake of students, laboratory & infrastructure developments, Students, faculty & staff requirements and promotions and latest technologies etc. Various departments submit the annual budget to principal. On receipt of such proposals, Principal, in consultation with departmental HODs,prepares a consolidated proposal. After deliberations, formal budget made altered in departments and forwarded to Principal for preparing final budget at college level and submit it to the Governing Body for approval and sanction. The Management is approving almost 100% which was proposed by the institute. The budget allocation and utilization for the last three years is adequate. All the expenditure needs prior approval from the competent authority. Funds would be spent only from the approved budget. If funds are required for expenses not mentioned in the proposal, management’s approval is a must.

S.No	Assessment Year	Budget Allocated in Lakhs	Actual Expenditure in Lakhs	Adequate /Non Adequate
1.	2024-2025	61210000.00	56773834.25	Adequate
2.	2023-2024	61571000.00	60375918.24	Adequate
3.	2022-2023	43170000.00	41496953.03	Adequate
4	2021-2022	43465000.00	42092198.45	Adequate

Table 10.2.1: Adequacy of budget allocation during assessment period.

10.2.2 Utilization of allocated funds (15)

Institute Marks : 15.00

10.2.2. Utilization of allocated funds (15)

The funds are utilized by the Principal, Heads, and Finance Committee as per the allocation. Any additional fund requirements, beyond budget allocations are approved by the Management.

S.No	Assessment Year	Budget Allocated in Lakhs	Actual Expenditure in Lakhs	%
1	2024-2025	612.10	567.73	92.75
2	2023-2024	615.71	603.75	98.06
3	2022-2023	431.70	414.96	96.12
4	2021-2022	434.65	420.92	96.84

Table 10.2.2: Adequacy of budget utilized during assessment period.

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

Institute Marks : 5.00

10.2.3. Availability of the audited statements on Website (5)

Sl.No	Year	Link
1	2024-2025	https://amreddyengineering.ac.in/AuditStatements/2024-2025AUDITREPORT.pdf (https://amreddyengineering.ac.in/AuditStatements/2024-2025AUDITREPORT.pdf)
2	2023-2024	https://amreddyengineering.ac.in/AuditStatements/2023-2024AUDITREPORT.pdf (https://amreddyengineering.ac.in/AuditStatements/2023-2024AUDITREPORT.pdf)
3	2022-2023	https://amreddyengineering.ac.in/AuditStatements/2022-2023AUDITREPORT.pdf (https://amreddyengineering.ac.in/AuditStatements/2022-2023AUDITREPORT.pdf)
4	2021-2022	https://amreddyengineering.ac.in/AuditStatements/2021-2022AUDITREPORT.pdf (https://amreddyengineering.ac.in/AuditStatements/2021-2022AUDITREPORT.pdf)

Table 10.2.3. Availability of the audited statementon Website

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

15109000.00		Actual expenditure (till...): 13390108.81		Total No. Of Students 300
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
6,325,000.00	8,784,000.00	5,544,911.68	7,845,197.13	44633.70

Table 2 :: CFYm1 2023-24

12290000.00		Actual expenditure (till...): 11226902.00		Total No. Of Students 270
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
5,820,000.00	6,470,000.00	5,237,151.79	5,989,750.21	41581.12

Table 3 :: CFYm2 2022-23

7712000.00		Actual expenditure (till...): 7490614.98		Total No. Of Students 300
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
900,000.00	6,812,000.00	791438.4	6,699,176.58	24968.72

Table 4 :: CFYm3 2021-22

8537000.00		Actual expenditure (till...): 8321206.70		Total No. Of Students 360
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
720,000.00	7,817,000.00	679,012.40	7,642,194.30	23114.46

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	25000.00	20027.71	20000.00	18555.01	20000.00	19303.37	220000.00	207168.82
Software	3000.00	2486.20	3000.00	2609.30	3000.00	2428.49	4000.00	3008.00
Laboratory consumable	6000.00	5801.13	7000.00	6088.36	6000.00	5666.47	8000.00	7018.67
Maintenance and spares	810000.00	801108.18	600000.00	550851.88	500000.00	491302.04	500000.00	486588.69
R & D	35000.00	31077.47	20000.00	19134.86	20000.00	18556.15	20000.00	17694.13
Training and Travel	110000.00	103591.57	65000.00	61463.47	70000.00	64821.98	80000.00	78149.09
Miscellaneous Expenses	14120000.00	12426016.55	11575000.00	10568199.12	7093000.00	6888536.48	7705000.00	7521579.30
Total	15109000.00	13390108.81	12290000.00	11226902.00	7712000.00	7490614.98	8537000.00	8321206.70

10.3.1. Adequacy of budget allocation

The allocated budget was used to meet the new facilities, equipment, replacement of out-dated equipment and new labs due to revision in syllabi. Budget requirements under recurring and non- recurring heads are collected from departments before the commencement of the financial year.

Allocations are made as per the availability of funds. Spending is monitored by the accounts section. The institution carefully monitors the expenses so that the necessities are met without affecting the smooth working of the institution. The finance committee has been very efficiently doing this over the past several years that the institution never had any serious budget crunch that affected the functioning of the college.

The sample table shows the details of adequacy of budget allocation for the last three years for the department of Computer science and Engineering.

S.No	Assessment Year	Budget Allocated in Lakhs.	Actual Expenditure in Lakhs.	Adequate / Non Adequate
1.	2024-2025	1019000.00	991716.68	Adequate
2.	2023-2024	735000.00	676098.20	Adequate
3.	2022-2023	632000.00	612664.22	Adequate
4.	2021-2022	847000.00	811423.49	Adequate

Table 10.3.1: Program specific adequacy of budget allocation during assessment period.

10.3.2 Utilization of allocated funds (20)

Institute Marks : 20.00

10.3.2. Utilization of allocated funds

Funds are allocated by the Management of the College. Department Heads are intimated of the extent of funds allocated against their budget proposals. Actions for procurement of lab equipment, up-gradation of existing lab facilities, purchase of consumables etc., are initiated from the department and the funds are released on a case by case basis from the accounts office of the college on approval by the Management. During the last three years, the budget was utilized to meet expenses like purchase of equipment, expenses towards consumables and contingencies, etc. The Table shows the percentage of funds utilization for the last three years for the department of Computer Science & Engineering.

S. No	Assessment Year	Budget Allocated in Lakhs.	Actual Expenditure in Lakhs.	Percentage of Utilization
1	2024-2025	10.19	9.91	97.32%
2	2023-2024	7.35	6.76	91.99%
3	2022-2023	6.32	6.12	96.94%
4	2021-2022	8.47	8.11	95.80%

Table 10.3.2.1: Program specific utilization of allocated budget for the assessment period

10.4 Library and Internet (20)

Total Marks 20.00

10.4. Library and Internet

Library at AMRM CET has subscribed e-journals from various services providers such as DELNET, NDL.

Elements which affect the quality of journals include Reputation – of the journal and the publisher, Scope and focus of the journal, Turnaround time / publication lag, Longevity, Editorial standards / Journal information, Acceptance rate, Cost etc. AMRM CET Library and information Centre procured all quality journals maintaining time trusted values.

Library space and ambience, timings and usage, availability of a qualified librarian and other staff, library automation, online access, networking, etc.

Carpet area of library (in m 2): 675 Sqm

Reading Room Space (in m 2): 350 Sqm

Number of seats in reading space: 150

Number of users visiting library per day: 132

Number of users (issue book) per day: 35

Number of users (reading space) per day: 132

Number of users at digital library per day: 40

Digital Library: 30 Systems

Number of library staff: 4

Number of library staff with a degree in Library Management: 2

Computerization for search, indexing.: YES

Issue/return records Bar coding used.: YES

Timings:

Working Days: 08.00 AM to 08.00 PM

Weekend and Vacation: 10:00 AM to 1:00 PM

Details of Library as on 1st July 2024

S. No	Name of the Item	Available as on 1 st July 2024
1	Books – Titles	3754
2	Books – Volumes	19036
3	Print Journals	97
4	e-Journals	1230
5	Library management software	1
6	Reading Room Seating Capacity	150
7	Digital Library	30

Table 10.4.1.1: Library Details

DELNET e-Journals - 2354

Agriculture & Horticulture - 116

Architecture -92

Divyangjan (Persons with Special Needs) - 382

Education - 206

Engineering and Technology -911

Food Technology - 133

Library and Information Technology - 55

Management -240

Science -13

Skill & Entrepreneurship- 58

Startups, Innovation and Entrepreneurship- 53

Women and Child Development - 71

Yoga -24

List of Journals – Department wise

Department	Print Journals	Online Journals
Civil Engineering	14	
Electrical and Electronics Engineering	14	
Mechanical Engineering	9	
Electronics and Communication Engineering	15	
Computer Science and Engineering	20	

MBA	13	240
Basic Science and Humanities	5	
Agriculture Engineering	7	
TOTAL	97	1230

Table 10.4.1.2: List of journals dept. wise**PRINTED JOURNALS**

S. No	Name of the Journals & Magazine
1	Journal Of Information Knowledge And Research In Civil Engineering
2	The Iup Journal Of Structural Engineering
3	Journal Of Structural Engineering
4	Journal Of Surveying And Structural And Engineering
5	International Journal of Civil Engineering
6	International Journal Of Civil And Structural Engineering
7	Journal Of Civil And Construction Engineering
8	Journal Of Water Resources And Pollution Studies
9	Journal Of Environmental Engineering And Studies
10	International Journal Of Environmental Management And Renewable Energy System
11	Journal Of Transportation Systems
12	Journal Of Construction And Building Materials Engineering
13	Journal Of Geotechnical Studies
14	International Journal Of Building Information Modelling Applications In Constructing
15	Ieema Journal
16	The Iup Journal Of Electrical And Electronics Engineering
17	Advance In Power Electronics(International)
18	International Journal Of Emerging Electric Power System
19	Iup Journal Of Electrical And Electronics Engineering
20	Journal Of Advance Electrical Engineering And Devices
21	Journal Of Controller Convertors
22	Journal Of Digital Integrated Circuitsin Electrical Devices
23	Journal Of Control Of Instrumental Engineering
24	Advance Research In Powewr Electronics And Devices
25	Journal Of Electronics Design And Technology
26	International Journal Of Emerging Iot Technologies In Smart Electronics And Communication
27	Journal Of Alternative And Renewable Energy Sources
28	International Journal Of Renewable Energy And Electrical Power Systems
29	Journal Of Information ,Knowledge And Research In Mechanical Engineering
30	The Iup Journal Of Mechanical Engineering
31	Journal Of Mechanical And Mechanics Engineering
32	International Journal Of Manufacturing And Technologyand Industrial Engineering
33	Journal Of Advancement In Machines
34	Jornal Industrial Mechanics
35	Journal Of Thermal Energy Systems
36	Journal Of Mechanical Of Robotics
37	Journal Of Fluid Mechanics And Mechanical Design
38	Journal Of Information Knowledge And Research In Electronics Communication Engineering
39	Journal Of Information Knowledge And Research In Biomedical Engineering
40	The Iup Journal Of Telecommunications
41	Tele Comunication Journal(JBSnl)
42	Ie1 Electronics And Telecom Engineering
43	Vlsi Journal An International Journal
44	International Journal Of Wireless & Mobile Networks

45	Telecommunications
46	Journal Of Analog And Digital Communications
47	International Journal Of Advances In Biomedical Sciences
48	Research And Review:Electronics And Communication Engineering
49	Journal Of Micro Processors And Micro Controller Research
50	Advance Research In Analog And Digital Communications
51	Journal Of Electronics And Tele Communicaton Sysytem And Engineering
52	International Journal Of Digital Technology And Network Security System
53	International Journal Of Computer Application In Engineering Technology & Sciences
54	International Journal Of Emerging Engineering Technology And Application And Science
55	Journal Of Information Knowledge And Research In Information Technology
56	Journal Of Information Knowledge And Research Computer Science And Application
57	Journal Of Information Knowledge And Research Computer Engineering
58	The Iup Journal Of Computer Engineering
59	The Institution Of Electronics And Telecommunication Engineers(Iete) Journal Of Research
60	The Institution Of Electronics And Telecommunication Engineers(Iete) Journal Of Research
61	Inverts Journal Of Science And Technology
62	Journal Of Information Technology
63	Oriented Journal Of Computer Science
64	National Journal Of Of Computer Science
65	Advance In Software Engineering
66	International Journal Of Computer Science And Information Security
67	International Journal Of Computer Networks And Communications
68	Journal Of Computer Sciences
69	Journal Of Network Security Computer Networks
70	Journal Of Datamining And Management
71	Journal Of Computer Sciences Engineering And Software Testing
72	Journal Of Computer Based Parallel Programming
73	International Journal Of Advance In Engineering Science
74	The Iup Journal Of English Studies
75	Journal Of Resources ,Energy And Development
76	Journal Of Statistics And Mathematical And Engineering
77	Journal Of Crystallization And Physics And Chemistry
78	International .Journal Of Agriculture And Plant Pathology
79	International Journal Of Agronomy
80	Journal Of Advanced Research In Agriculture Science And Technology
81	South Asian Journal Of Agricultural Science
82	International Journal Of Reserarch In Agronomy
83	International Journal Of Agriculture And Nutrition
84	International Journal Of Agriculture Extension And Social Development
85	Journal Of Information Knowledge And Research In Business Management Adminstration
86	The Iup Journal Of Marketing Management
87	The Iup Journal Of Financial Risk Management
88	The Iup Journal Of Business Strategy
89	The Iup Journal Of Management Research
90	The Iupjurnal Of Optimazational Behaviour
91	The Iup Journal Of Supply And Chain Management
92	The Iup Journal Of Brand Management
93	Hrm Reviews
94	Indian Journal Of Prabhandan Management
95	Indian Journal Of Finance
96	International Journal Of Business Management

Table 10.4.1.3: List of printed Journals**Magazines**

Sl.No	Magazine
1	Electronics Today
2	Electrical India
3	Chip
4	Developer Iq
5	Civil Engineering Construction Reviews
6	Business World
7	Frp Today
8	Digital Learning
9	Corporate Citizen
10	The Scitech Journal
11	The Lup Journal Of Knowledge Management
12	Journal Of Information Technology(It)
13	Iete Journal Of Research
14	Iete Journalm Of Educaton
15	Iete Journal Of Technical Review
16	[Efy] Benefit
17	[Efy]Linux For You
18	[Efy] Electronic For You
19	Indian Jr.Of Marketing
20	Frontline
21	Sri Rama Krishna Prabha
22	Jr Of Electronics And Telecom Engineering The Institutes Of Engineers
23	Iete Jr Of Research
24	Iete Jr Of Technical Review
25	Jr Of Electrical Electronics And Engineering
26	The Journal Of Business Respective
27	Indian Jr Of Marketing
28	Current Science

Table 10.4.1.4: List of Magazines**List of E Journals****Table: 10.4.1.5. List of E Journals (Annexed Separately)****10.4.2 Internet (10)**

Institute Marks : 10.00

Name of the Internet provider	BSNL
Available band width	500 MBPS
WiFi availability	Yes
Internet access in labs, classrooms, library and offices of all Departments	Yes
Security arrangements	YES

Annexure I
(A) PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

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

(B) PROGRAM SPECIFIC OUTCOME (PSOs)

PSO1	To apply domain knowledge and expertise for enhancing research capability to transform innovative ideas into reality.
PSO2	To prepare students to undertake careers involving problem solving using computer science and technologies

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 in force as on date and the institutes shall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute

Name : Dr.Ch.Mallikarjun

Designation : Professor and principal

Signature :


 Principal
 A.M. REDDY MEMORIAL COLLEGE OF
 ENGINEERING & TECHNOLOGY
 PETLURIVARI PALEM
 Narasaraopet (Rd), Guntur.D

Seal of The Institution :



Place : Narasaraopet

Date : 13-07-2025 10:13:24