

**Department of Computer Science and Engineering**

Ref: RIT/CSE/PA&QIC/09

Date:30.01.2025

The minutes of meeting of the Program Assessment and Quality Improvement Committee- IX Meeting of the Department of Computer Science and Engineering

The convener conducted a meeting with the Department PA & QIC Members on 09.01.2025 at 01.45 PM at CSE Seminar Hall and discussed the following points.

Members Present

Sl.No.	Name of the Faculty Members	Designation	PAQIC
1.	Dr K Vijayalakshmi	Professor & Head/CSE	Convener
2.	Dr.M.Swarnasudha	Associate Professor/ CSE	Member
3.	Mrs.S.Manjula	Assistant Professor/Senior Grade /CSE	Member
4.	Dr.C.A.Yogaraja	Assistant Professor/Senior Grade /CSE	Member
5.	Ms.G.Sakthi Priya	Assistant Professor/CSE	Member
6.	Mrs.K.Jeya Karthika	Assistant Professor/CSE	Member
7.	Mrs.C.Subha	Assistant Professor/Senior Grade /Civil	Member
8.	Dr.K.Karthikeyan	Professor/EEE	Member
9.	Mrs.G.Gnanapriya	Assistant Professor/Senior Grade /ECE	Member
10.	Dr.S.Maharajan	Associate Professor/ Mech	Member
11.	Dr.G.Selvaraj	Assistant Professor/Senior Grade /Maths	Member
12.	Dr. G. Kanthimathi	Professor/Chemistry	Member
13.	Dr. M. Anish Alfred Vaz	Assistant Professor/Senior Grade /CSE	Member
14.	Dr. R. Srinivasan	Professor/Physics	Member
15.	Dr.R.Venkatesh	Associate Professor/ CSE	Representative
16.	Mrs.B.Vijayalakshmi	Assistant Professor/Senior Grade /CSE	Representative
17.	Ms.P.Jothi Thilaga	Assistant Professor/Senior Grade /CSE	Representative
18.	Mr.K.Vignesh Saravanan	Assistant Professor/Senior Grade /CSE	Representative
19.	Dr. I Gethzi Ahila Poornima	Associate Professor/ CSE	Representative



RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University
Accredited by NAAC & An ISO 9001: 2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Department of Computer Science and Engineering

Ref: RIT/CSE/PA&QIC/09

Date:30.01.2025

The minutes of meeting of the Program Assessment and Quality Improvement Committee- IX Meeting of the Department of Computer Science and Engineering

Sl.No.	Name of the Faculty Members	Designation	PAQIC
20.	Ms.K.Jeyageetha	Assistant Professor/CSE	Representative
21.	Mrs. S. Vijaya Amala Devi	Assistant Professor/CSE	Representative
22.	Mrs.M.Dhivya	Assistant Professor/ CSE	Representative
23.	Mrs. P. Devisri	Assistant Professor/ CSE	Representative
24.	Mr R.Bala Murugan	Assistant Professor/ CSE	Representative
25.	Mrs.K.Priya	Assistant Professor/ CSE	Representative
26.	Mrs R.Madhu	Assistant Professor/ CSE	Representative
27.	Ms.P.Rajarajeswari	Assistant Professor/ CSE	Representative



Department of Computer Science and Engineering

Ref: RIT/CSE/PA&QIC/09

Date:30.01.2025

The minutes of meeting of the Program Assessment and Quality Improvement Committee- IX Meeting of the Department of Computer Science and Engineering

Sl.No.	Points to Discuss	Target Date	Responsibility
1.	Dr.M.Swarna Sudha , ASP/CSE welcomed the PA&QIC members and reiterated the agenda of meeting.	-	-
2.	<p>The following agenda are discussed and presented by faculty members:</p> <ul style="list-style-type: none">• Review of previous meeting (8th PAQIC)- During the last meeting, queries were raised regarding citation improvement, h-index enhancement, copyrights, and faculty membership count. Efforts are underway to enhance citation metrics through increased publications, collaborations, and journal participation. Faculty members are encouraged to file for copyrights on their research findings and actively join professional societies and research associations to strengthen academic engagement. The actions taken on these points were discussed with the panel members by Dr. M. Swarna Sudha. Also, Mrs.M.Dhivya AP/CSE disseminated the Vision, Mission, PEOs and PSOs of the Department to the Members for suggestion. The details are given in the Sl.No. 1 of the detailed report.• The review of Enrolment ratio and Academic Performance (4.1 to 4.5) & Improvement in Academic Performance (8.4) were discussed by Dr. R. Venkatesh. The details are given in Sl.No.2 of the detailed report.• Faculty Information, First-Year Student-Faculty Ratio (9.1) Improvement in Faculty Qualification/Contribution (8.3) was discussed by Dr. B. Vijayalakshmi. The details are given in Sl.No.3 of the detailed report.• The review of Research and Development Activities (6.2) were presented by Mrs. K. Jeya Karthika. The details are given in Sl.No.4 of the detailed report.	Continuous	HOD and All Faculties



Department of Computer Science and Engineering

Ref: RIT/CSE/PA&QIC/09

Date:30.01.2025

The minutes of meeting of the Program Assessment and Quality Improvement Committee- IX Meeting of the Department of Computer Science and Engineering

	<ul style="list-style-type: none">• The review of SWAYAM / NPTEL MOOC /Self Learning (2.6) & Faculty Certification of MOOCs through SWAYAM (6.1.4) were discussed by Mrs. S. Vijaya Amala Devi. The details are given in Sl.No.5 of the detailed report.• The review of Placement, Higher Studies, and Entrepreneurship (4.6) were presented by Dr. M. Swarna Sudha. The details are given in Sl.No.6 of the detailed report.• The review of faculty contributions to professional development was presented by Mrs. K. Priya, covering various key areas. She discussed the faculty memberships in professional societies (6.1.1), their roles as resource persons or participants in STTPs/FDPs (6.1.2), and the FDP/STTPs organized by the department (6.1.5). Additionally, Mrs. Priya highlighted the significant faculty support provided in student innovative projects (6.1.6), as detailed in Sl.No.7 of the report.• The review of Faculty Achievement & Student Achievement was presented by Mrs. S. Manjula. The details are given in Sl.No.8 of the detailed report.• The review of Facilities and Technical Support were discussed by Mrs. S. Manjula. The details are given in Sl.No.9 of the detailed report• Steps Taken for Enhancing Industry-Institute Partnerships (2.8) were presented by Mr. K. Vignesh Saravanan. Internship, IPT & Industrial visit (2.3), Evaluation of Industrial Training/Internship (3.4), and Faculty Internship/Training/Collaboration with Industry (6.1.7) were also discussed. The details are given in Sl.No.10 of the detailed report.• The review of students' participation in various professional activities was presented by Mrs. M. Dhivya and Mrs. P. Devisri. discussed the role of students in professional societies, bodies, chapters, clubs, and professional engineering events organized		
--	--	--	--



Department of Computer Science and Engineering

Ref: RIT/CSE/PA&QIC/09

Date:30.01.2025

The minutes of meeting of the Program Assessment and Quality Improvement Committee- IX Meeting of the Department of Computer Science and Engineering

	<p>(4.7.1). She also highlighted student publications (4.7.4), with further details provided in Sl.No.11 of the detailed report.</p> <ul style="list-style-type: none">• Quality of Student Capstone Projects (2.2) & Evaluation of Projects (3.5) were presented by Dr. R. Venkatesh and Ms. G. Sakthi Priya. The details are given in Sl.No.12 of the detailed report.• The review of Seminar and Mini/Micro Projects (2.4) & Case Studies and Real-Life Examples (2.5) were discussed by Mrs. M. Dhivya. The details are given in Sl.No.13 of the detailed report.• The attainment of Course Outcomes (3.7), the attainment of Program Outcomes and Program-Specific Outcomes (3.8), and the actions taken based on the results of the evaluation of COs, POs, and PSOs (8.1), as detailed in Sl.No.14 of the report, were discussed by Dr. C. A. Yogaraja.• The review of Program Specific Budget Allocation and Utilization (9.8) and E-Governance (9.10) was presented by Mrs. K. Jeyageetha. She discussed the allocation and effective utilization of the budget for various programs, ensuring optimal resource management. The details are given in Sl.No.15 of the detailed report• The review of Extracurricular Activities, Outreach Activities (9.14), and Alumni Interaction was presented by Ms. G. Sakthi Priya, where she highlighted students' active engagement in various initiatives beyond academics, including community outreach and alumni networking The details are given in Sl.No.16 of the detailed report• Review of Curriculum Gap Identification and Implementation of Content Beyond the Syllabus (2.1) was discussed, focusing on addressing gaps through additional content and practical applications. The session was presented by Dr. I. Gethzi Ahila Poornima The details are given in Sl.No.17 of the detailed report		
--	---	--	--



Department of Computer Science and Engineering

Ref: RIT/CSE/PA&QIC/09

Date:30.01.2025

The minutes of meeting of the Program Assessment and Quality Improvement Committee- IX Meeting of the Department of Computer Science and Engineering

	<ul style="list-style-type: none"> The review of the processes followed to ensure the quality of teaching and learning, including Outcome-Based Teaching Learning (2.1), the mentoring system (9.2), the quality of learning resources (9.9), and innovative educational initiatives and their implementation (9.12), was discussed by Dr. M. Swarna Sudha. The details are given in Sl.No.18 of the detailed report The evidence of addressing Sustainable Development Goals (SDG) (3.6) and solving complex engineering problems incorporating sustainability goals (2.7) was discussed by Mrs. K. Jeyageetha. The details are given in Sl.No.19 of the detailed report. 		
3.	Meeting has been declared open for inviting suggestions for enhance the program assessment	-	-
4.	<p>PAQIC Members suggested that the following point for future improvements,</p> <p>Review of Research and Development Activities</p> <ul style="list-style-type: none"> The members suggested that consultancy work can be improved by strengthening industry collaborations, and actively seeking external projects. Additionally, the number of research supervisors can be increased to provide better guidance and support for research scholars, ensuring quality mentorship and enhanced research output. <p>Review of Faculty Achievement and Student Achievement:</p> <ul style="list-style-type: none"> During the meeting, the panel members expressed their appreciation for the students' exemplary performance in achievements such as the Folonite-Startup, NPTEL certification courses, and participation in various hackathons. <p>Review of Project :</p> <ul style="list-style-type: none"> The members insisted on applying more patents for the product design 	Continuous	HOD and All Faculties



RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University
Accredited by NAAC & An ISO 9001: 2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Department of Computer Science and Engineering

Ref: RIT/CSE/PA&QIC/09

Date:30.01.2025

The minutes of meeting of the Program Assessment and Quality Improvement Committee- IX Meeting of the Department of Computer Science and Engineering

	Review of Facilities and Technical Support <ul style="list-style-type: none">The panel members inquired about the additional facilities created after the NBA accreditation, the inclusion of various software tools, and the configurations of the Apple iMac systems.		
5.	The meeting ended with vote of thanks delivered by Dr.M.Swarna Sudha ASP/CSE	-	-
Prepared By <i>M. Swarna</i> 7/2/25 Dr.M.Swarna Sudha ASP/CSE	Recommended by <i>K. J. Gan</i> 7/2/25 HOD-CSE	Approved by <i>M. Swarna</i> 13/2/25 Principal	



RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University
Accredited by NAAC & An ISO 9001: 2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Department of Computer Science and Engineering
Academic Year 2024-2025 (Odd Semester)

Minutes of Meeting- 9th Program Assessment and Quality Improvement Committee (PA&QIC)

About PA&QIC:

Aim: By successfully involving the stakeholders, to improve the program's quality and examine its ongoing progress in terms of the curriculum, the teaching-learning process, student performance, faculty contributions, infrastructure facility development, student support systems, and industry connections.

- Frequency of the Meeting : Twice the Academic Year
- Roles and Responsibilities:
- Convener : Formulating the Agenda and convene the meeting
- Member and Representative : Share the views and suggestion for the improvement and monitor the progress of the program
- Deliverable : The effectiveness of program improvement implementation in terms of each process analysis, action taken and its impacts are going to submit to Department Advisory Committee.
- Date & Time of Meeting : 09.01.2025 (Thursday) & 01.45 PM to 05.00 PM
- Reference : Ref.: RIT/CSE/PA&QIC/09
- Venue : CSE Seminar Hall

Members Present:

Sl.No.	Name of the Faculty Members	Designation	PAQIC
1.	Dr K Vijayalakshmi	Professor & Head/CSE	Convener
2.	Dr.M.Swarnasudha	Associate Professor/ CSE	Member
3.	Mrs.S.Manjula	Assistant Professor/Senior Grade /CSE	Member
4.	Dr.C.A.Yogaraja	Assistant Professor/Senior Grade /CSE	Member
5.	Mrs.K.Jeya Karthika	Assistant Professor/CSE	Member
6.	Mrs.C.Subha	Assistant Professor/Senior Grade /Civil	Member

Sl.No.	Name of the Faculty Members	Designation	PAQIC
7.	Dr.K.Karthikeyan	Professor/EEE	Member
8.	Mrs.G.Gnanapriya	Assistant Professor/Senior Grade /ECE	Member
9.	Dr.S.Maharajan	Associate Professor/ Mech	Member
10.	Dr.G.Selvaraj	Assistant Professor/Senior Grade /Maths	Member
11.	Dr. G. Kanthimathi	Professor/Chemistry	Member
12.	Dr.R.Venkatesh	Associate Professor/ CSE	Representative
13.	Mrs.B.Vijayalakshmi	Assistant Professor/Senior Grade /CSE	Representative
14.	Ms.P.Jothi Thilaga	Assistant Professor/Senior Grade /CSE	Representative
15.	Mr.K.Vignesh Saravanan	Assistant Professor/Senior Grade /CSE	Representative
16.	Dr. I Gethzi Ahila Poornima	Associate Professor/ CSE	Representative
17.	Ms.K.Jeyageetha	Assistant Professor/CSE	Representative
18.	Mrs. S. Vijaya Amala Devi	Assistant Professor/CSE	Representative
19.	Mrs.M.Dhivya	Assistant Professor/ CSE	Representative
20.	Mrs. P. Devisri	Assistant Professor/ CSE	Representative
21.	Mr R.Bala Murugan	Assistant Professor/ CSE	Representative
22.	Mrs.K.Priya	Assistant Professor/ CSE	Representative
23.	Mrs R.Madhu	Assistant Professor/ CSE	Representative
24.	Ms.P.Rajarajeswari	Assistant Professor/ CSE	Representative

Leave/ On-duty:

Sl.No.	Name of the Faculty Members	Designation	PAQIC	Leave/ On-duty
1.	Dr. R. Srinivasan	Professor/Physics	Member	On duty
2.	Dr. M. Anish Alfred Vaz	AP(SG)/English	Member	Absent
3.	Ms.G.Sakthi Priya	Assistant Professor/ CSE	Member	On duty
4.	Ms.P.Rajarajeswari	Assistant Professor/ CSE	Representative	On-duty
5.	Mr R.Bala Murugan	Assistant Professor/ CSE	Representative	On-duty
6.	Mrs.A.Sofia Thanga Mary	Assistant Professor/ CSE	Representative	Leave

Dr.M,Swarna Sudha Associate Professor/CSE, welcomed all the members of PA&QIC and briefed the meeting agenda. The following are the agenda of 9th PA&QIC Meeting.

Sl.No	Topics to Present	Faculty In charge	Time
	Welcome Address & Previous (8 th PA&QIC) meeting action taken	Dr.M.Swarna Sudha	01:30PM
1.	1.1.Vision, Mission and Program Educational Objectives (PEOs)	Mrs.M.Dhivya	01:35PM
2.	Students' Performance 4.1 to 4.5 – Enrollment ratio and Academic Performance	Dr.R.Venkatesh	01:40PM
	8.4. Improvement in Academic Performance	Ms.R.Raja Rajeswari	01:45PM
3.	Faculty Information 5- Faculty Information	Dr.B.Vijayalakshmi	01:50PM
	9.1 First Year Student-Faculty Ratio 8.3. Improvement in Faculty Qualification/ Contribution	Ms.R.Raja Rajeswari	01:55PM
4.	Research 6.2 Research and Development Activities	Mrs.K.Jeya Karthika	02:00PM
5.	Online Course 2.6 SWAYAM/NPTEL/MOOC/Self Learning. 6.1.4. Faculty Certification of MOOCs through SWAYAM, etc.	Mrs.S.Vijaya Amala Devi	02:05PM
6.	Placement, Higher Studies 4.6 - Placement, Higher Studies and Entrepreneurship	Dr.M.Swarna Sudha	02:15PM
7.	Faculty Contributions to Professional Development 6.1.1. Memberships in Profession Societies at National/International Levels	Mrs.K.Priya	02:20PM
	6.1.2. Faculty as Resource Persons or Participants in STTPs/FDPs	Mrs.K.Priya	02:25PM
	6.1.3 - Faculty Contribution in Development of SWAYAM MOOCs and other E-Content	Dr.C.A Yogaraja	02:30PM
	6.1.5. FDP/STTP Organized by the Department	Mrs.K.Priya	02:35PM
	6.1.6. Faculty Support in Student Innovative Projects		
8.	Faculty Achievement and Student Achievement	Mrs.S.Manjula	02:40PM
9.	Facilities and Technical Support	Mrs.S.Manjula	02:50PM
10.	Industry Institute Interaction 2.8 Steps Taken for Enhancing Industry Institute Partnerships 2.3 Internship, IPT & IV	Mr.K.Vignesh Saravanan &	02:55PM

	3.4 Evaluation of Industrial Training/ Internship (Continuous and SEE) 6.1.7 Faculty Internship/Training /Collaboration with Industry	Mr.R.Balamurugan	03:05PM
11.	Students Participation 4.7.1 Professional Societies/ Bodies, Chapters, Clubs, and Professional Engineering Events Organized 4.7.2 Student's Participations in Professional Events 4.7.3 Publication of Journals, Magazines, Newsletters, etc. in the Department 4.7.4 Student Publications	Mrs.M.Dhivya Mrs.P.Devisri Mrs.P.Devisri Mrs.M.Dhivya	03:10PM 03:15PM 03:20PM 03:25PM
12.	Project 2.2 - Quality of Student Capstone Project 3.5 - Evaluation of Projects	Dr.R.Venkatesh & Ms.G.Sakthi Priya	03:30PM
13.	Min- Project 2.4. Seminar and Mini/Micro Projects 2.5. Case Studies and Real-Life Examples	Mrs.M.Dhivya	03:35PM
14.	Continuous Improvement 3.7 Attainment of Course Outcomes 3.8 Attainment of Program Outcomes and Program Specific Outcomes 8.1. Actions Taken Based on the Results of Evaluation of the COs, POs, and PSOs	Dr.C.A.Yogaraja	03:45PM
15.	9.8 Program Specific Budget Allocation, Utilization 9.10 E-Governance	Mrs.K.Jeyageetha Dr.C.A Yogaraja	03:55PM 04:00PM
16.	Extra curricular Activities 9.14 Outreach Activities Alumni Interaction 9.3 Feedback Analysis 9.5 Start-up and Entrepreneurship Activities 9.13 Faculty Performance Appraisal and Development System	Ms.G.Sakthi Priya Dr.B.Vijayalakshmi	04:10PM 04:15PM
17.	Outcome-Based Curriculum 2.1 Review of Curriculum Gap identification and the implementation of Content Beyond the syllabus	Dr.I.Gethzi Ahila Poornima & Ms.P.Jothi Thilaga	04:20PM
18.	Outcome-Based Teaching Learning 2.1 Describe Processes Followed to Ensure Quality of Teaching & Learning 9.2 Mentoring System 9.9 Quality of Learning Resources 9.12 Innovative Educational Initiatives and Implementation	Dr.M.Swarna Sudha	04:25PM

19.	3.6. Evidence of Addressing Sustainable Development Goals (SDG) 2.7 Solving Complex Engineering Problems Incorporating Sustainability Goals	Mrs.K.Jeyageetha	04:30PM
20.	1.2.1. State the Process for Developing/Revising the Program Curriculum 1.2.3. Components of Curriculum (05) 1.2.4. Strategies for Education Reforms (05)	Dr.I.Gethzi Ahila Poornima	04:35PM
21	Any other Matter Revision of Department Vision, Mission, PEOs and PSOs		
Feedback and Suggestion from members and Committee			
Vote of Thanks			

Review of Previous Meeting (6th PA&QIC)

Dr.M.Swarna Sudha , Associate Professor presented the progress and the corresponding action taken for the suggestion given in the 8th PA&QIC meeting held on 31.05.2024 The action taken was briefed in the following Table.1. and the same was presented in detail by the corresponding process owner.

Table.1. Suggestion given in 6th PQ&QIC Meeting and its Corresponding Action Taken

Suggestions	Action Taken
Citation and H-Index Improvement	Efforts are being made to enhance citation metrics through increased research publications, collaborative works, and active participation in reputed journals and conferences. Total Citations: 1025 H-index :17
Number of copyrights needs to be improved.	Faculty members and researchers are encouraged to file for copyrights on their innovative works and research findings. Totally 07 copyright have been applied.
Membership count among faculty members can be improved.	Encouraged faculty to join professional bodies such as IEEE, ACM, and ISTE

Suggestion & comments by PA&QIC Members: Nil

1.Vision, Mission and Program Educational Objectives (PEOs)

Presenter: Mrs.M.Dhivya AP/CSE

Mrs.M.Dhivya presented the Vision , Mission, PEO's, PO's, and PSO's of the Department of Computer science & Engineering , consolidated Vision Mission feedback collection details and dissemination of vision Mission Proofs.

4.7.1 Professional Societies/Bodies/Chapter/Club & Professional Engineering Event Organized

4.7.4 Student publications in Journal & Conference,

2.4 Seminars and Micro/Mini projects

2.5 Case Studies & Real life Example

Department Vision

Excellence in Computer Science and Engineering by Offering Quality Technical Education Catering to Research and Development.

Department Mission

- Equip the department with modern infrastructure for high quality education and carrying out research in emerging technologies in Computer Science and Engineering.
- Expose the students, faculty and staff to a globally competitive learning experience.
- Motivate students to realize the responsibility of being professionally competent computer technocrats to serve the society by inculcating Ethical and Environmental aspects.

Program Educational Objectives (PEOs)

- Graduates will have successful career in IT and related industries or pursue higher education and research or evolve as entrepreneurs.
- Graduates will have the ability and attitude to adapt to emerging technological changes.
- Graduates will excel as socially committed engineers with high ethical values, leadership qualities and empathy for the needs of society.

Program Outcomes (POs)

- **Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and engineering specialization to the solution of complex engineering problems.
- **Problem Analysis:** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
- **Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with

appropriate consideration for public health and safety, cultural, societal and environmental considerations.

- **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.
- **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 limitation.
- **The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
- **Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of, and need for sustainable development.
- **Ethics:** Apply ethical principles and commit to professional ethics, responsibilities and norms of engineering practice.
- **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
- **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, design documentations, make effective presentations and give and receive clear instructions.
- **Project Management and Finance:** Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects in multidisciplinary environments.
- **Life-long Learning:** Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

After successful completion of the degree, the students will be able to: (PSOs)

- Excel in software development including mobile technologies to solve complex computation task with soft skills.
- Apply appreciable knowledge of IoT, Cloud Computing and Cyber Security to develop reliable IT solutions.

- Exhibit proficiency in Artificial Intelligence and Big Data Analytics for providing solutions to real world problems in Industry and Research establishments.

Feedback Collection & Dissemination Academic year 2024-2025 Odd:

S.No	Name of the Member	Count
1.	Faculty	6
2.	Parents	10
3.	Alumni	20
4.	Students	10
5.	Industry	8
Total		54

Table 1: Feedback Collection Details



Dissemination of Vision Mission in PTA Meeting



Dissemination of Vision Mission in Induction Program

RAJARAM INSTITUTE OF TECHNOLOGY
Department of Computer Science and Engineering
Feedback Form For Vision, Mission, Program Educational Objectives

Name of the Member: Dr. PANDURAJ KARAN
Designation: ADMINISTRATIVE ENGINEER (CB)
Address: 17 FLOOR, NARAI, JEEPSHOOR EXHIBIT, KESAVA, VIRUDHUNAGAR - 626 007
Mobile No./Email ID: 9842163411 / jeevesh@rajaramit.edu.in

STATEMENTS:

Vision	Excellence in Computer Science and Engineering by offering quality technical education catering to research and development.
Mission	M1 Equip the department with modern infrastructure for high quality education and carrying out research in emerging technologies in Computer Science and Engineering.
	M2 Focus the students, faculty and staff to a globally competitive learning environment.
	M3 Motivate students to make the responsible use of being professionally competent computer technicians to serve the society by inculcating Ethical and Environmental aspects.
Program Educational Objectives (PEOs)	PEO1 Graduates will have successful careers in IT and related industries or pursue higher education and research or involve in entrepreneurship.
	PEO2 Graduates will have the ability and attitude to adapt to emerging technological changes.
	PEO3 Graduates will excel in socially conscious and employable, high ethical values, leadership qualities and versatile for the needs of society.

Request of Member, Give your valuable feedback:

- Do you agree with the present Vision and Mission statements reflecting the stakeholders' expectations and demands?
Yes/No
- Do you have any suggestions for Vision and Mission statements?
Yes/No
- If Yes, Please write here:

Form No. A1/21 Ser.No. 02 Effective Date: 16.01.2020

Sample of Industry person feedback proof

RAJARAM INSTITUTE OF TECHNOLOGY
Department of Computer Science and Engineering
Feedback Form For Vision, Mission, Program Educational Objectives

Name of the Member: Dr. PANDURAJ KARAN
Designation: ADMINISTRATIVE ENGINEER (CB)
Address: 17 FLOOR, NARAI, JEEPSHOOR EXHIBIT, KESAVA, VIRUDHUNAGAR - 626 007
Mobile No./Email ID: 9842163411 / jeevesh@rajaramit.edu.in

STATEMENTS:

Vision	Excellence in Computer Science and Engineering by offering quality technical education catering to research and development.
Mission	M1 Equip the department with modern infrastructure for high quality education and carrying out research in emerging technologies in Computer Science and Engineering.
	M2 Focus the students, faculty and staff to a globally competitive learning environment.
	M3 Motivate students to make the responsible use of being professionally competent computer technicians to serve the society by inculcating Ethical and Environmental aspects.
Program Educational Objectives (PEOs)	PEO1 Graduates will have successful careers in IT and related industries or pursue higher education and research or involve in entrepreneurship.
	PEO2 Graduates will have the ability and attitude to adapt to emerging technological changes.
	PEO3 Graduates will excel in socially conscious and employable, high ethical values, leadership qualities and versatile for the needs of society.

Request of Member, Give your valuable feedback:

- Do you agree with the present Vision and Mission statements reflecting the stakeholders' expectations and demands?
Yes/No
- Do you have any suggestions for Vision and Mission statements?
Yes/No
- If Yes, Please write here:

Form No. A1/21 Ser.No. 03 Effective Date: 16.01.2020

Sample of Parent feedback proof

Suggestion & comments by PA&QIC Members: Nil

2. Students' Performance

4.1 to 4.5 – Enrollment ratio and Academic Performance

8.4. Improvement in Academic Performance

Presenter: Dr.R.Venkatesh

The NBA Criteria IV Review Meeting was held on 9th January 2025 to assess the performance metrics related to student outcomes for the academic program. The evaluation focused on key parameters outlined in Criteria IV: Students' Performance, contributing significantly to accreditation.

Intake Information

INTAKE INFORMATION:							
Item (Information is to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2026-2027 CAY	2025-2026 CAYm1	2024-2025 CAYm2	2023-2024 CAYm3	2022-23 CAYm4 (LYG)	2021-22 CAYm5 (LYGm1)	2020-21 CAYm6 (LYGm2)
N= Sanctioned intake of the program (as per AICTE /Competent authority)	-	-	180	120	120	60	60
N1= Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program	-	-	180	120	115	60	59
N2= Number of students admitted in 2nd year in the same batch via lateral entry including leftover seats	-	-	NIL	3	1	3	6
N3= Separate division if any	-	-	NIL	NIL	NIL	NIL	1
N4= Total no. of students admitted in the 1st year via all supernumerary quotas	-	-	8	6	NIL	NIL	NIL
Total number of students admitted in the program (N1 + N2 + N3 + N4) - excluding those admitted through multiple entry and exit points.	-	-	188	129	116	63	65+1*

Number of students who have successfully graduated in the stipulated period of study [Total of without Backlogs]

Number of students who have successfully graduated in the stipulated period of study [Total of with Backlogs]

Year of entry	Total no. of students (N1 + N2 + N3+ N4+N5-N6 as defined above)	Number of students who have successfully graduated in the stipulated period of study [Total of with Backlogs]			
		I Year	II Year	III Year	IV Year
2026-2027 CAY	-				
2025-2026 CAYm1	-	-			
2024-2025 CAYm2	188	-	-		
2023-2024 CAYm3	129 (126+3+0)	126	-	-	
2022-2023 LYG	116 (115+1+0)	116	116	-	-
2021-2022 LYGm1	63 (60+3+0)	60	60+3	60+3	-
2020-2021 LYGm2	66 (59+6+1)	60	59+6	59+6+1	53+4+1

Key Areas of Evaluation:**Enrolment Ratio (ER):**

The enrolment ratio was calculated using the average ER from the past three academic years, with points awarded based on the formula:

$$\text{ER Points} = 20 * (\text{Average ER}/100)$$

Item (Students enrolled in the First Year on average over 3 academic years (CAY, CAYm1 and CAYm2))	CAY 2026-2027	CAYm1 2025-2026	CAYm2 2024-2025
N= Sanctioned intake of the program in the 1st year (as per AICTE/Competent authority)			188
N1= Total no. of students admitted in the 1st year minus the no. of students, who migrated to other programs/ institutions plus no. of students, who migrated to this program			180
N4= Total no. of students admitted in the 1st year via all supernumerary quotas			08
Enrolment Ratio (ER)= (N1+N4)/N			100
Average ER= (ER_1+ ER_2+ ER_3)/3			

Success Rate (SR):

Success rates were determined by analyzing the number of students graduating within the stipulated program duration, considering lateral entries and exits. The formula used was:

Average SR = Mean of SR for the past three batches.

SR Points = 1.5 * Average SR/10.

Academic Performance Index (API):

The academic performance of students in the first, second, and third years was assessed using the API formula:

Academic Performance = Average Academic Performance Index (API), where API = ((Mean of 1st Year, 2nd Year, 3rd Year Grade Point Average of all successful students on a 10-point scale)

Improvement in Academic Performance:

The meeting reviewed year-on-year improvements in academic performance metrics, including GPA, pass rates, and progression rates.

Item	CAYm1 2025-2026	CAYm2 2024-2025	CAYm3 2023-2024
Academic Performance Index (API) of the First-Year Students in the Program (Refer to section 4.3)	-	-	7.63
Academic Performance Index of the Second-Year Students in the Program (Refer to section 4.4)	-	-	7.43
Academic Performance Index of the Third Year Students in the Program (Refer to section 4.5)	-	-	7.74

The review highlighted the program's strengths in maintaining high enrolment and success rates, while also identifying areas for improvement, such as enhancing transition rates and supporting underperforming students. Actionable recommendations were proposed to align academic outcomes with accreditation standards.

3. Faculty Information

5 Faculty Information

9.1 First Year Student-Faculty Ratio

8.3. Improvement in Faculty Qualification/ Contribution

Presenter: Dr.B.Vijayalakshmi, AP(SG)

Dr.B.Vijayalakshmi, presented the Faculty Information details for the Academic Year 2024-2025. The student faculty ratio for this academic year is 17.33 and the details are given in the below table 5.1

Table 5.1 SFR Ratio

Year	CAYm2 (2024-2025)
UG1. B (2 nd year)	120+3
UG1. C (3 rd Year)	121
UG1. D (4 th Year)	63
DS=Total no. of students in all UG and PG programs in the Department	312
AS=Total no. of students of all UG and PG programs in allied departments	-
S=Total no. of students in the Department (DS) and allied departments (AS)	312
DF=Total no. of faculty members in the Department	20
AF= Total no. of faculty members in the allied Departments	-
F=Total no. of faculty members in the Department (DF) and allied Departments (AF)	20
FF=The faculty members in F who have a 100% teaching load in the first-year courses	0 (2)
Student Faculty Ratio (SFR)=S/(F-FF)	312/(20-0)= 17.33
Average SFR for 3 years	17.33

Faculty Cadre Proportion value for this academic year is 21.75 and the details are given in Table 5.2

Table 5.2 Faculty Cadre Proportion

Year	Professors		Associate Professors		Assistant Professors	
	Required (RF1)	Available (AF1)	Required (RF2)	Available (AF2)	Required (RF3)	Available (AF3)
CAYm2 (2024-2025)	2	1	3	3	10	16

Faculty qualification details for the academic year 2024-2025 is 19.33 based on the calculation given in the table 5.3

Table 5.3 Faculty Qualification

Year	X	Y	RF	FQI= 2.5 * [(10X +4Y)/RF]
CAYm2 (2024-2025)	6	14	15	19.33

Where, X=No. of faculty members with Ph.D. degree or equivalent as per AICTE/UGC norms, Y=No. of faculty members with M. Tech. or ME degree or equivalent as per AICTE/UGC norms, RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio. Faculty retention based on the last two academic years is presented in the table 5.4 and the average value is 8.125.

Table 5.4 Faculty Retention

Item	CAYm2 (2024-2025)	CAYm3 (2023-2024)
RF=No. of required faculty in the Department including allied Departments to adhere to the 20:1 Student-Faculty ratio, with calculations based on both student numbers and faculty requirements as per section 5.1 of SAR; (RF=S/20).	312/20 =15	248/20=12
AF=The no. of available faculty members in the Department including allied Departments	20	16
A= The no. of faculty members at the current institute with less than 1 year of experience (A in AF)	5	3
B= The no. of faculty members at the current institute with more than 1 year and less than 2 years of experience (B in AF)	4	2
C= The no. of faculty members at the current institute with more than 2 years and less than 3 years of experience (C in AF)	1	2
D= The no. of faculty members at the current institute with more than 3 years and less than 4 years of experience (D in AF)	1	0
E= The no. of faculty members at the current institute with more than 4 years of experience (E in AF)	9	9
FR=(((A*0) +(B*1)+(C*2)+(D*3)+(E*4))/RF) *2.50 (points limited to 10)	[(5*0)+(4*1)+(1*2)+(1*3)+(9*4)]/12 *2.50 =	[(3*0)+(2*1)+(2*2)+(0*3)+(9*4)]/12 *2.50

	$\frac{[(0+4+2+3+36)/15] * 2.50}{=3*2.50 = 7.5}$	$= \frac{[(0+2+4+0+36)/12] * 2.50}{=3.5*2.50 = 8.75}$
Average FR= ((FR_1+ FR_2+ FR_3)/3) (marks limited to 10)	(7.5+8.75)/2= 8.125	

For the criteria 8.3, Improvement in qualification and publications was presented, the no of faculty members with Ph.D degree gets increased from 4 to 6 and the publications in journals and conferences also improved when compared with the previous academic year. It is presented in the Table 5.5. Details about the First Year Student-Faculty Ratio (FYSFR) was presented and the percentage for the criteria is 62 and the details are given in Table 5.6.

Table 5.5 Improvement in qualification and publications

Item	CAYm2 (2024-2025)	CAYm3 (2023-2024)
No. of faculty members with Ph.D. degree	6	4
No. of publications in peer reviewed journals	9	15
No. of publications in conferences	11+2	6+27

Table 5.6 First Year Student-Faculty Ratio (FYSFR)

Year	Sanctioned intake of all UG programs (S4)	No. of required faculty (RF4= S4/20)	No. of faculty members in Basic Science Courses & Humanities and Social Sciences including Management courses (NS1)	No. of faculty members in Engineering Science Courses (NS2)	Percentage= No. of faculty members ((NS1*0.8) +(NS2*0.2))/(No. of required faculty (RF4)); Percentage=((NS1*0.8) +(NS2*0.2))/RF
CAYm2 (2024-2025)	720	720/20=36	5+5+9+6=25	11	$\frac{(25*0.8+11*0.2)}{36} = \frac{20+2.2}{36} = 62\%$

4. Research

6.2 Research and Development Activities

Criteria: 6.2 Research & Development Activities

Mrs.K.Jeyarthika, AP/CSE presented the research and development activities of the CSE department for the Academic Year 2024-2025 (Odd Semester). The presentation provided an overview of the department's research progress and ongoing initiatives.

Agenda of the Presentation

6.2.1. Academic Research

- Journal Publications
- Conference Publications

- Book Chapter
- 6.2.2. Ph.D. Student Details
- Ph.D. Details
- 6.2.3. Development Activities (Patent and Models)
- 6.2.4. Sponsored Project-Grant & Applied
- 6.2.5. Consultancy Work
- 6.2.6. Institution Seed Money or Internal Research Grant to its Faculty for Research Work

6.2.1. Academic Research

Table No. 6.2.1.1: Faculty publication details.

Sl.No	Item	CAYm1	CAYm2 2024-2025	CAY m3 2023-2024
1.	No. of peer reviewed journal papers published	-	09	15
2.	No. of peer reviewed conference papers published	-	11+02	06 + 27
3.	No. of books/book chapters published	-	03	04

Journal Publications

Details of peer-reviewed journal published during the reporting period is discussed here. A total of **9 papers** were published in reputed journals, which include:

- **4 SCI-indexed papers**
- **5 Scopus-indexed papers**

The details of the published papers during the Academic Year 2024-2025 (Odd Semester) are listed below:

SCI-Indexed Papers

1. R.Geetha, A. Jegatheesan, Rajesh Kumar Dhanaraj, **K.Vijayalakshmi**, Anand Nayyar, V. Arulkumar, J. Velmurugan & Rajendran Thavasimuthu, "CVS-FLN: a novel IoT-IDS model based on metaheuristic feature selection and neural network classification model", Multimedia Tools Application, Vol.83, pp.86557–86591, June 2024. <https://doi.org/10.1007/s11042-024-19617-7>.
2. Ramathilagam, A, **Vijayalakshmi, K**, "Customizable Fuzzy-Neuro Inference System Attack Detection Based on Trust for Mobile Wireless Sensor Networks", Wireless Personal Communication, Vol.137, pp.671-684, July 2024. <https://doi.org/10.1007/s11277-024-11263-4>.
3. **Gethzi Ahila Poornima** I, S. Amirtharaj, M. Maheswaran, A. Bhuvanesh, "Levy flight-based momentum search and Circle Rock Hyrax swarm optimization algorithms for energy effective clustering and optimal routing in wireless body area networks", Computers and Electrical Engineering, Vol.118, ISSN 0045-7906, pp.109461, July 2024. <https://doi.org/10.1016/j.compeleceng.2024.109461>.
4. **K.Vignesh Saravanan**, S.Kavi Priya and **K.Vijayalakshmi**, "Enhanced mobile sink path optimization using RPN – RNN algorithm for energy efficient data

acquisition in WSN”, Journal of Wireless networks, November 2024. DOI: 10.1007/s11276-024-03850-x.

Scopus Papers

1. Hema M, Gurunadha R, Neelima A, Muthukumaran N, Geetha A, **Manjula S**, “HIDE-6G: Advanced Intrusion Detection System for Secure 6G Network using Deep Learning”, International Journal of Intelligent Engineering and Systems, Vol. 17, no.5, pp.474-484, July 2024. DOI: 10.22266/ijies2024.1031.37
2. Shenbagarajan, A, Ragavan, K, Shenbagalakshmi, G, & **Venkatesh, R**, “MRI Brain Tumor Segmentation using Cuckoo-based Dimensionality Reduction and Ensemble Convolutional Neural Network,” The Open Biomedical Engineering Journal, Vol.18, no.1, July 2024. <https://doi.org/10.2174/0118741207290221240318063349>.
3. V. Antony Asir Daniel, **K.Vijayalakshmi**, Priyanka Pramod Pawar, Deepak Kumar, A. Bhuvanesh, A. Josephine Christilda, “Enhanced affinity propagation clustering with a modified extreme learning machine for segmentation and classification of hyperspectral imaging”, e-Prime - Advances in Electrical Engineering, Electronics and Energy, Vol.9, pp.100704, ISSN 2772-6711, September 2024. <https://doi.org/10.1016/j.prime.2024.100704>.
4. **Manjula, S, Sudha, M.S., Yogaraja, C.A. et al.** “Real-Time Speed Breaker Detection with an Edge Impulse”, SN Computer Science, Vol.5, no.766, August 2024, <https://doi.org/10.1007/s42979-024-03132-5>.
5. **Vijayalakshmi Balachandran**, Thanga Ramya Shanmugavel, Ramar Kadarkarayandi, **Vijayalakshmi Kandhasamy**, “A hybrid approach of pattern recognition to detect marine animals”, International Journal of Informatics and Communication Technology (IJ-ICT) Vol.14, no.1, pp. 240-249, April 2025. <http://doi.org/10.11591/ijict.v14i1.pp240-249>.

Conference Publications

During this period, faculty members of the Department of Computer Science and Engineering published **11 Scopus-indexed conference papers**. The details are listed below:

1. R. Raj Mohan, **K. Vijayalakshmi**, P. John Augustine, R. Venkatesh, M. Gomathy Nayagam, B. Jegajohi, “A comprehensive survey of machine learning based mobile data traffic prediction models for 5G cellular networks”, AIP Conf. Proc, Vol.2816, no.1, pp.100002, March 2024. <https://doi.org/10.1063/5.0177504>
2. **Vignesh Saravanan K, Sakthi Priya G**, Muthu Kumar K, Pon Karthika K, Advait K S, “Enhancing Speech Audio Emotion Recognition for Diverse Feature Analysis through MLP Classifier,” International Conference on Cognitive Robotics and Intelligent Systems (ICC - ROBINS), Coimbatore, India, pp. 656-662, May 2024. doi: 10.1109/ICC-ROBINS60238.2024.10533912.
3. **S. Manjula**, K.Valarmathi and **M. S. Sudha**, "Cryptography and Adversarial Analysis for Cloud Data Security," 5th International Conference on Innovative Trends in Information Technology (ICITIIT), Kottayam, India, pp. 1-6, July 2024. doi: 10.1109/ICITIIT61487.2024.10580025.
4. S.Sarumathi and **K. Vijayalakshmi**, “A Comprehensive Analysis of optimization of task scheduling algorithms for IOT applications in a Combined Environment of Cloud, Fog and Edge,” Third International Conference on Smart Technologies and

- Systems for Next Generation Computing (ICSTSN), Villupuram, India, pp. 1-6, September 2024. doi: 10.1109/ICSTSN61422.2024.10670804
5. G. C, N. Kalaiarasi, Y. R, P. Brinda, **Jeyakarhika. K** and S. T. Gopukumar, "Chaotic Particle Swarm Optimization Empowered Deep Convolutional Neural Network for Prostate Cancer Diagnosis," Second International Conference on Advances in Information Technology (ICAIT), Chikkamagaluru, Karnataka, India, pp. 1-6, October 2024. doi: 10.1109/ICAIT61638.2024.10690623.
 6. **C. A. Yogaraja**, C. Priyanka, P. SP, J. J. Babu, S. Rajagopal and S. Poorani, "Enhancing Insect Image Recognition with Sand Cat Swarm Optimization with Deep Feature Extraction," Second International Conference on Advances in Information Technology (ICAIT), Chikkamagaluru, Karnataka, India, pp. 1-6, October 2024. doi: 10.1109/ICAIT61638.2024.10690642.
 7. Karunakaran, S. and Sivaraman, R. and Maharajothi, M. and J, Deepika and **K, Vignesh Saravanan** and N, Jayanthi, "Enhanced Seagull Optimization Algorithm Based Route Selection in IoT Assisted Wireless Sensor Networks," Second International Conference on Advances in Information Technology (ICAIT), Chikkamagaluru, Karnataka, India, pp. 1-6, October 2024. doi: 10.1109/ICAIT61638.2024.10690745.
 8. **Poornima, I Gethzi Ahila** and Abdul Habib Sheikh, Abdul Wasim and Thota, Aruna and Devi, G. and Pandey, Neha and Roy, Sudipta, "Automated Mitotic Nuclei Classification Using Fruitfly Optimization Algorithm with Machine Learning on Breast Cancer Diagnosis," Second International Conference on Advances in Information Technology (ICAIT), Chikkamagaluru, Karnataka, India, pp. 1-6, October 2024. doi: 10.1109/ICAIT61638.2024.10690651.
 9. Jamalpur, Bhavana and **G, Sakthi Priya** and Venkat, S. and R, Aarthi and Kavitha, S. and Babu, G. Charles, "Optimizing Food Image Classification Using Black Widow Algorithm and Deep Learning Techniques," Second International Conference on Advances in Information Technology (ICAIT), Chikkamagaluru, Karnataka, India, pp. 1-6, October 2024. doi: 10.1109/ICAIT61638.2024.10690324.
 10. Shanthi, R. and D, Balasubramaniam and **Venkatesh, R.** and Sankari, C. and Manimaran, V. and Basha, Shaik Hedayath, "Enhancing Remote Sensing Image Classification Using Arithmetic Optimization Algorithm with Deep Learning Approach," Second International Conference on Advances in Information Technology (ICAIT), Chikkamagaluru, Karnataka, India, pp. 1-6, October 2024. doi: 10.1109/ICAIT61638.2024.10690775.
 11. N, Maheswaran and S, Bose and **T, Shruthi** and G, Logeswari and T, Anitha and D, Prabhu, "Transformative Storage Framework for 6G Smart City Deployments," Third International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT), Tiruchirappalli, India, pp. 1-6, October 2024. doi: 10.1109/ICEEICT61591.2024.10718383.

Other Conference Presented

Apart from the Scopus-indexed papers, faculty members of the Department of Computer Science and Engineering also presented papers at various **other conferences**. The details of these papers are listed below:

1. **G.Sakthipriya**, presented paper entitled "A Hybrid Approach Using Machine Learning and NLP for Enhanced Email Spam Detection", in the National Conference

on “Emerging Innovations in Electrical, Electronics and Computing Technologies” - (NCEIEECT 2024) organized by the Department of Electrical and Electronics Engineering, Bharath Institute of Higher Education and Research, Chennai on 25th October, 2024. ISBN: 978-93-341-4160-3

2. **Sakthi Priya G, Vignesh Saravanan K**, presented paper entitled “Customer Segmentation using Clustering Techniques: Data-Driven Approach to Enhance Marketing Strategy”, International Conference on Sustainable Communication Networks and Application (ICSCNA-2024), ISBN: 979-8-3315-3000-6. (IEEE Conference)

Book Chapter:

During this period, faculty members from the Department of Computer Science and Engineering contributed to 03 **book chapters**. The details are summarized below:

1. Hemalatha, J, Vivek, V, Mohan, S, **Venkatesh, R**, Kavitha Devi, M.K, “The Impact of Denoising in Watermarking Robustness”, In: Kumar Sahu, A. (eds) Multimedia Watermarking, Springer, pp.67-85, 2024. Doi: 10.1007/978-981-99-9803-6_4.
2. Bharathi, I, **Swarnasudha, M., Manjula, S, & Poornima I, G. A**, "Machine Learning Models for Alzheimer's Disease Detection: An In-Depth Exploration, Including Deep Learning Approaches." AI-Driven Alzheimer's Disease Detection and Prediction, edited by Umesh Kumar Lilhore, et al., IGI Global, pp. 276-292, 2024. <https://doi.org/10.4018/979-8-3693-3605-2.ch019>
3. **P. Jothi Thilaga, K. Vignesh Saravanan, S. Kavi Priya, K. Vijayalakshmi**, "IoT-enabled healthcare system using machine learning", Internet of Things enabled Machine Learning for Biomedical Applications, CRC Press, Taylor & Francis, pp.426, November 2024. <https://doi.org/10.1201/9781003487647>.

Citation Details:

During this period, the Department of Computer Science and Engineering has received the following citation details as per data from the **Vidwan portal**.

- **Total Citations: 1025**
- **h-index :17**

Screenshot:



6.2.2. Ph.D. Student Details

Table No. 6.2.2.1: Ph.D. details

Sl.No.	Item	CAYm1	CAYm2	CAYm3
1	No. of students enrolled for Ph.D. in the Department	-	08	06
2	No. of Ph.D. students graduated in the Department	-	02	01

The Department of Computer Science and Engineering has been recognized as an official **Research & Development (R&D) Centre** under the following details:

- **R&D Centre Recognition Number:** 4467806
- **Research Supervisor:** Dr. K. Vijayalakshmi, Professor, Head of the Department, CSE

As of the current period, the Department of Computer Science and Engineering has the following 8 students are enrolled for the Ph.D. program:

List of Ph.D. Students:

1. Ms.G.Sakthi Priya
2. Mrs.K.Jeya Geetha
3. Ms.V.Manimekalai
4. Mrs.S.Sarumathi
5. Mrs.S.Vijaya Amala Devi
6. Mrs.B.Yazhini
7. Mrs.K.Jeyarthika
8. Ms.P.Rajarajeswari-Registered

The following faculty members from the Department of Computer Science and Engineering have been awarded the **Ph.D. degree** during this period.

1. Dr.B.Vijayalakshmi- (Awarded on July 2024)
2. Dr.C.A.Yogaraja- (Awarded on August 2024)

6.2.3. Development Activities

Patent:

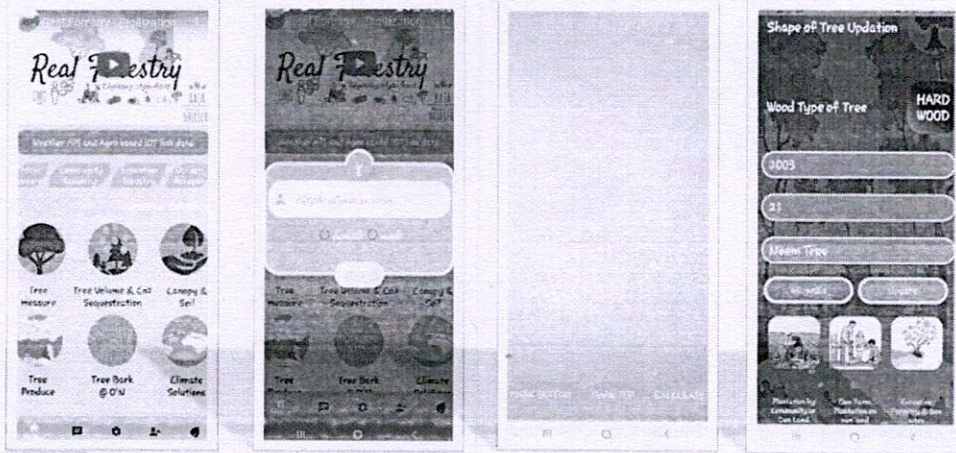
During this period, the Department of Computer Science and Engineering has seen **no patents granted or published**. However, **one patent hearing has been submitted**. The details are as follows:

- Mobile Application to Help the Tribal Parents to Locate the Tribal Schools and Hostels hearing submitted.

Working models & prototypes developed by faculty members:

The various products developed by the CSE department students and Faculty members are presented. They are given below.

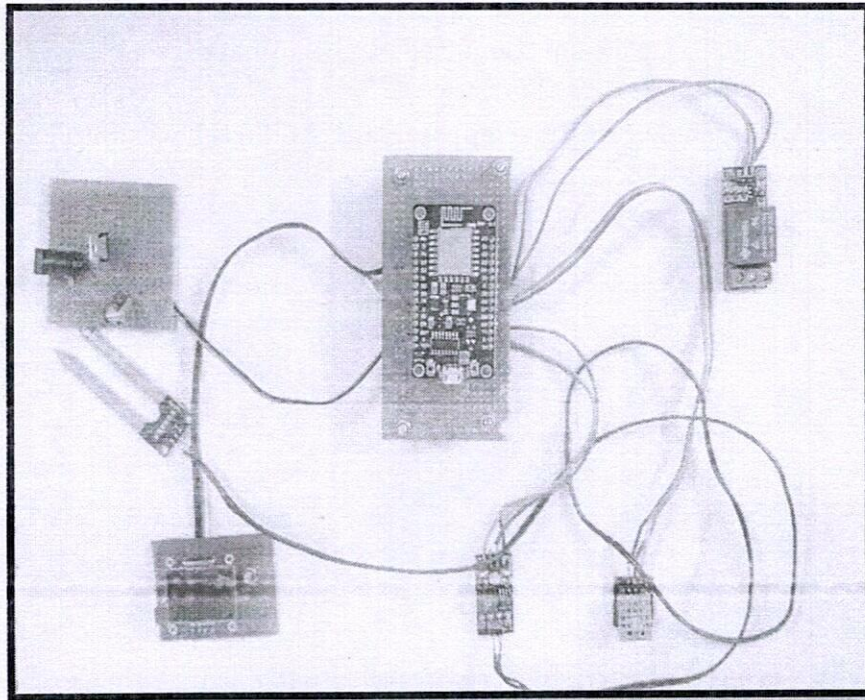
1. The project Real Forest Mobile App Development with AI-based Tree Identification, Raja Nursery, Rajapalayam completed by Dr.B.Vijayalakshmi, ASP/CSE
Real Forestry App
<https://play.google.com/store/apps/details?id=forestry.example.rit>



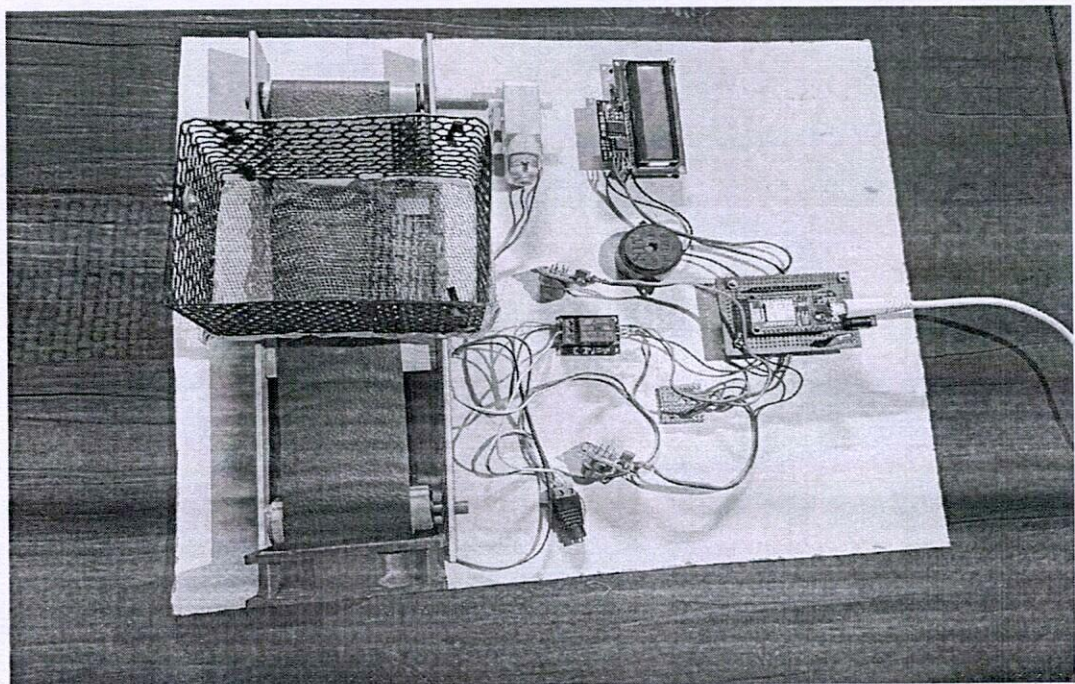
2. The **V-Invent – Pacco Pro Project** focused on automating the paint inventory management system using barcode scanning technology. The project was successfully completed by Dr.R.Venkatesh, ASP/CSE and Dr.C.A.Yogaraja, AP(SG)/CSE.



3. The working model Precision Agriculture using IoT, completed by Ms.G.Sakthi priya, AP/CSE.



4. The working model Automated Sensor Model For Poultry Litter Gas Emission completed by Mrs.K.Jeyageetha, AP/CSE.



6.2.4. Sponsored Research Project

During the academic years 2024-2025, the Department of Computer Science and Engineering received sponsored research project funding from external agencies, including TNSCST and SERB of totally 2 grant is received.

Table No. 6.2.4.1: List of sponsored research projects received from external agencies

S. No.	Name of the PI/Co-Pi	Name of the Dept.,	Project title	Name of the Funding Agency	Duration of the Project	Amount
CAYm2 (2024-2025)						
1.	Mrs.S.Manjula AP(SG)/CSE	CSE	Traffic Management through Vehicle Counting in Real Time for Indian Roads	TNSCST	6 months	Rs.7,500
CAYm3 (2023-2024)						
2	Dr.K.Vijayalakshmi	CSE	International Conference on Artificial Intelligence, Cyber security and Game Design- February 23 to 25, 2024.	SERB	3 days	Rs.1 Lakhs
Total Amount (Lacs) Received for the Past 3 Years						Rs.1,07,500

18 project proposals are submitted under various funding agencies such as DST, TNSCST, MSME etc.

S. No.	Name of the PI/ Co-Pi	Title of the Project	Amount	Name of the Funding Agency	Status
1.	Dr.R.Venkatesh Mr.C.A.Yogaraja	Transforming Education and Neurorehabilitation through Interactive Cognitive Technologies	Rs.26.64 Lakhs	DST	Submitted
2.	Dr.I.Gethzi Ahila Poornima	Hybrid Classical-Quantum Convolution Neural Network model for the detection of Glioblastoma tumour using Positron Emission Tomography	Rs.27.5 Lakhs	DST	Submitted
3.	Mrs.S.Manjula	IoT and AI-Driven Smart Food Quality Monitoring System for Spoilage Prevention	Rs.13 Lakhs	MSME	Shortlisted for Round 2

4.	Mrs.P.Devisri	IOT Based Bus Vacancy Monitoring System	Rs.11 Lakhs	MSME	Shortlisted for Round 2
5.	Ms.G.Sakthi Priya	Innovative Shopping Assistance System using Eye-Tracking Technology for Disabled Individuals	-	MSME	Submitted
6.	Mrs.A.Sofia Thanga Mary	IoT based Gas Leakage Detector and Warning Generator	-	MSME	Submitted
7	Dr.K.Vijayalakshmi Dr.R.Venkatesh	Development of Gamified E-Learning Modules Using AR, VR and MR for Underprivileged Tamil Nadu Government School Students	Rs.4.99 Lakhs	TNSCST (Science & Technology Project Scheme)	Submitted
8.	Dr.K.Vijayalakshmi Dr.C.A.Yogaraja	Exploring Educational Inequalities in Tamil Nadu: A Comparative Study of Access and Outcomes in Public and Private Schools	Rs.4.95 Lakhs	TNSCST (Science & Technology Project Scheme)	Submitted
9.	Dr.K.Vijayalakshmi Dr. I Gethzi Ahila Poornima	Real Time Data Integration Platform for Small-Scale Farmers	Rs.5 Lakhs	TNSCST (Science & Technology Project Scheme)	Submitted
10.	Dr.K.Vijayalakshmi Dr.M.Swarna Sudha	Intelligent AI-Based Traffic Optimization System for Real-Time Congestion Management in Chennai	Rs.4.98 Lakhs	TNSCST (Science & Technology Project Scheme)	Submitted
11.	Dr.K.Vijayalakshmi Dr.B.Vijayalakshmi	Integrating Predictive Low-Battery Alerts and Change-Aware Route Planning for Electric Scooters	Rs.4.96 Lakhs	TNSCST (Science & Technology Project Scheme)	Submitted
12.	Ms.P.Rajarajeswari	Mudhalvar APP	Rs.3.10 Lakhs	TNSCST (Science & Technology Project Scheme)	Submitted
13.	Dr.M.Swarna Sudha	Real-Time Space Detection and Navigation to Ease Urban Traffic	Rs.9,000	TNSCST	Submitted

14.	Ms.P.Jothi Thilaga	Accident Alert in Modern Traffic System	Rs.8,300	TNSCST	Submitted
15.	Mrs.S.Manjula	Milk quality monitoring system	Rs.10,000	TNSCST	Submitted
16.	Dr.C.A.Yogaraja	Real-time bus tracking and crowd information for Tamilnadu government buses	Rs.9,680	TNSCST	Submitted
17.	Dr.R.Venkatesh	Holistic Emergency Response and Disaster Management Platform with Interactive Map and Drone Integration (HERDMP)	Rs.9,950	TNSCST	Submitted
18.	Mr.K.Vignesh Saravanan	Smart Application for Automatic Farming irrigation system	Rs.10,000	TNSCST	Submitted

6.2.5. Consultancy Work

No consultancy work was undertaken by the Department of Computer Science and Engineering during this period.

Copyright Granted

- The copyright for Data Science Laboratory Manual is prepared by Mr.K.Vignesh Saravanan, AP(SG)/CSE is granted.

S.No.	Name of the Authors	Title of the Work	Application Number	Status
1	Mr.K.Vignesh Saravanan, AP(SG)/CSE	Data Science Laboratory Manual	L-155356/2024	Granted

Copyright Applied

- Totally 07 copyright for various is prepared by is applied. The list of copy right applied is shown below.

S.No.	Name of the Authors	Title of the Work	Application Number	Status
1	Dr.R.Venkatesh, ASP/CSE Dr.C.A.Yogaraja, AP(SG)/CSE Mr.K.Vignesh Saravanan, AP(SG)/CSE Mrs.Devisri P, AP/CSE	CCW332 – Digital Marketing	36021/2024-CO/L	Applied

2	Mrs.P.Devisri, AP/CSE Ms.P.Jothi Thilaga, AP(SG)/CSE Mrs.S.Manjula, AP(SG)/CSE Dr.B.Vijayalakshmi, AP(SG)/CSE	CCS370 – UI and UX Design	36182/2024- CO/L	Applied
3	Mrs. K. Jeyageetha, AP/CSE Ms.G.Sakthipriya, AP/CSE Dr.R.Venkatesh, ASP/CSE Mrs.K.Jeyakarthika, AP/CSE	Cloud Computing Laboratory Manual	36038/2024- CO/L	Applied
4	Ms.S.Manjula, AP(SG)/CSE Dr. I Gethzi Ahila Poornima, ASP/CSE Ms.P.Jothi Thilaga, AP(SG)/CSE Mr.B.Siva Sundarji, LT/CSE	Solution Guide For Finite Automata	36680/2024- CO/L	Applied
5	Mr.K.Vignesh Saravanan, AP(SG)/CSE Mrs.K.Jeyakarthika, AP/CSE Ms.G.Sakthi Priya, AP/CSE Mrs.K.Jeyageetha, AP/CSE	Database Management Systems Manual	38313/2024- CO/L	Applied
6	Dr.M.Swarna Sudha, ASP/CSE Mrs.M.Dhivya, AP/CSE Mrs.T.Shruthi, AP/CSE Dr.K.Vijayalakshmi, Head/CSE	Programming in C Laboratory Manual	40084/2024- CO/L	Applied
7	Mrs.T.Shruthi, AP/CSE Dr. I Gethzi Ahila Poornima, ASP/CSE Dr.M.Swarna Sudha, ASP/CSE Mrs.M.Dhivya, AP/CSE	Big Data Analytics Practical Workbook in Linux	40839/2024- CO/L	Applied

Suggestions Given by the panel members

- Consultancy work can be improved.
- Research supervisors can be improved.

5. Online Course

2.6 SWAYAM/NPTEL/MOOC/Self Learning.

6.1.4. Faculty Certification of MOOCs through SWAYAM, etc.

Presenter: Mrs.S. Vijaya Amala Devi, AP/CSE

S. Vijaya Amala Devi presented student online course and faculty online course during the period 2024-2025(Odd).

Consolidated Student Online Course as shown in Table 1

Table 1: Consolidated Student Online Course (June 2023- January 2025)

Academic year	Year	Strength	No of Students completed
2023-2024(odd)	I	126	126
	II	117	117
	III	63	63
	IV	66	63
2023-2024(even)	I	126	69
	II	117	87
	III	63	63
2024-2025(odd)	I	188	156
	II	128	149
	III	116	116
	IV	63	11

- Students have done courses in various Universities like IBM,UC San Diego Coursera, Techquasar Dynamics, Scalar, HP LIFE, Mindluster, Scalar Master Class ,EC-Council,Imarticus, IBM, Google Cloud, Technohacks, Codingninja, EDUPREP, Learn Quest, IEEE NITK,IBM,UC San Diego Coursera, Techquasar Dynamics, Scalar,HP LIFE, Mindluster, Scalar Master Class,EC-Council,Imarticus,IBM,Google Cloud,Technohacks,Codingninja,E-Learning,IBM CourseraNptel IIT Kharagpur,Kerala Block Chain Academy,AWS, Women Techmakers Guvi, HCL Tech, Accenture forage,Wipro TalentNext Course

Consolidated Student Online Course (June 2023 to January 2025)

Table 2: Consolidated Student Online Course (June 2023 to January 2025)

Academic Year	No of Students Completed		Number of Courses Completed
2023-2024(Odd)	I	126	73
	II	117	120
	III	63	44
	IV	63	55
2023-2024(Even)	I	69	82
	II	87	89
	III	63	48
2024-2025(Odd)	I	156	38
	II	149	127
	III	116	153
	IV	11	2

- Students completed courses based on Program Specific Outcome1(**Mobile Technologies and software Development**) such as
 - JavaScript Algorithm and Data Structure
 - Python Bootcamp: 30 Hours of Step by Step Python Lessons
 - Python Project Bootcamp
 - Python Fundamentals for Beginners
 - Introduction to Programming with Python
 - Python and Data Science
 - Machine Learning with Learn Flu
 - Excel Bootcamp

- Programming in Java
- ReactJS Development
- Unity Game Development
- Website UI/UX Designing using ChatGPT
- Java Complete Course using Visual StudioCode
- Java Development
- Programming using Java
- Java Object-Oriented Programming for Beginners
- ReactJS with AI: From Basics to Advanced Development
- Python Bootcamp: 30 Hours of Step by Step Python Lessons
- Core Java Bootcamp from Zero to Hero
- Java Programming (and related courses)
- C Programming Basics: Kick-start Your Programming Career
- Data Structures and Algorithms (C, C++, Java)
- Python Programming Masterclass
- Mobile App Development: Android App Development for Beginners
- HTML and CSS for Beginners
- C Programming
- JavaScript Programming Essentials
- Developing Front-End Apps with React
- Developing Back-End Apps with Node.js and Express
- HTML, CSS, JavaScript (and related courses)
- Node.js & MongoDB: Developing Back-End Database Applications
- JDBC: Java Database Connectivity
- Python Zero to Hero
- Programming Fundamentals Using Python (Parts I & II)
- Responsive Web Design
- Libraries and Frameworks for Front-End Development
- Angular
- Business English
- High-Impact Presentation
- Time Management
- Tips to Enhance Personality
- Effective Team Communication
- Foundation of Cyber Security
- Introduction to Cybersecurity
- Cyber Threat Management
- Connect and Protect: Networks and Network Security
- Put It to Work: Prepare for Cyber Security Jobs
- AWS Cloud Technical Essentials
- Google Cloud Fundamentals: Core Infrastructure
- Cloud Computations
- Naan Mudhalvan Robotic Process Automation Foundation Course
- Introduction to Robotic Process Automation
- Python Course for Beginners with Certification: Mastering the Essentials
- Crash Course on Python
- Data Structure and Algorithms

- Students completed courses based on **Program Specific Outcome 2(IoT, Cloud Computing and Cyber Security)** such as

- Introduction to Cyber Security Awareness
- Career Essentials in Cyber Security by Microsoft and LinkedIn
- Introduction to Ethical Hacking
- Git and Github Bootcamp
- Introduction to Containers
- Programming Basics
- Cloud Computing
- Introduction to Cyber Security Awareness
- Cyber Threat Management
- End Point Security
- Introduction to Containers
- Data Science using Python
- Data Analytics and Python
- Introduction to Cyber Security
- Cyber Forensics
- Python for Data Science and AI Development
- Roadmap to DevOps Engineering
- Azure Fundamentals
- Cloud Computing (and related courses)
- IoT and Embedded Systems (eLSI Basics of Embedded Systems and Robotics MOOC)
- Cyber Security for Everyone
- Introduction to Cyber Security and Awareness
- End Point Security
- Dynamo Pentester
- Amazon Services
- Foundation of Cyber Security
- Introduction to Cybersecurity
- Cyber Threat Management
- Connect and Protect: Networks and Network Security
- Put It to Work: Prepare for Cyber Security Jobs
- AWS Cloud Technical Essentials
- Google Cloud Fundamentals: Core Infrastructure
- Cloud Computations
- Foundations of User Experience (UX) Design
- Build Wireframes and Low Fidelity Prototypes
- UI/UX Design with Figma: 5+ Real World Projects

- Students have completed courses based on **Program Specific Outcome3: Artificial Intelligence and Big Data** such as,

- Artificial Intelligence and Primer Certification
- Artificial Intelligence for All
- Generative AI for Business Leaders
- Introduction to Artificial Intelligence
- Deep Learning for Developers

- Introduction to Deep Learning
- Generative Models for Developers
- Natural Language Processing
- Unsupervised Machine Learning with K-Means
- Introduction to Data Science
- Python for Data Science
- Data Analytics and Visualization Job Simulation
- Data Analytics Using Power BI
- Artificial Intelligence
- Artificial Intelligence Projects
- Python and Data Science
- Learn the Python Programming Language
- Python Libraries for Data Science Machine Learning with Learn Flu
- Career Essentials in Generative AI
- Foundations of Generative AI
- Artificial Intelligence Fundamentals
- Python Libraries for Data Science
- Data Science with Python Bootcamp
- Data Science using Python and R
- Problem Solving through Programming in C
- Machine Learning with Learn Flu
- Data Science Foundation Course
- Principles of Generative AI Certification
- Introduction to OpenAI GPT Model
- Artificial Intelligence
- Foundations of Generative AI
- Data Science using Python and R
- Python for Data Science and AI Development
- Machine Learning for Beginners
- Data Science and Analytics Courses
- Stepwise Construction of a Machine Learning Model
- Introduction to Applied Data Science with Python
- Naan Mudhalvan Robotic Process Automation Foundation Course
- Introduction to Robotic Process Automation

Consolidated List of 30-hour Online Course Completion:

FIRST YEAR

- A total of 179 students of first year completed the online course "Responsive Web Design" offered by Freecodecamp
- Breetta J completed the online course "Crash Course on python" offered by Coursera
- S K Viphakaran completed the online course "The Complete 2024 Web Development Bootcamp" offered by Udemy
- Thanga Preethi M completed the online course "Python Bootcamp:30 Hours of Step By Step Python Lesson" offered by Udemy

SECOND YEAR

- A total of 44 students of second year completed the online course "Programming in Java" offered by NPTEL IIT KHARAGPUR
- Arunadevi M, completed the online course "Data Structures" offered by Coursera
- Janani Sri NS completed the online course "Introduction to Java" offered by Coursera.
- Arunadevi M and Mohamed Amma Gulshan M completed the online course "Problem Solving Through Programming in C" offered by NPTEL IIT KHARAGPUR
- Arunadevi M completed the online course offered by
- completed the online course offered by
- Harishkumar I completed the online course "Foundation of Data Science" offered by Coursera
- Karthika A completed the online course "Python for Data Science" offered by Coursera
- Janani Sri NS and Amukeerthana M completed the online course "Data Science using Python" offered by Aligarh Muslim University
- Siva Ganesh completed the online course "Cloud Computing" offered by NPTEL IIT KHARAGPUR
- Prince S completed the online course "Fundamentals of Java Programming" offered by Board Infinity Coursera
- Karthika A, completed the online course "Python for Data Science" offered by Coursera.

THIRD YEAR

- A total of 4 students of third year completed the online course "Agile Scrum in Practice" offered by Infosys Springboard.
- A total of 2 students of third year completed the online course "Angular" offered by Infosys Springboard.
- A total of 6 students of third year completed the online course "AWS Cloud Technical Essentials" offered by Coursera
- A total of 8 students of third year completed the online course "Blockchain Foundation Program" offered by Kerala Blockchain Academy.
- A total of 5 students of third year completed the online course "Build a web page with HTML and CSS" offered by Coursera.
- A total of 7 students of third year completed the online course "Cloud Computing Foundation Program" offered by Coursera.
- A total of 7 students of third year completed the online course "NAME Developing Front-End Apps with React" offered by Coursera.
- A total of 61 students of third year completed the online course "Foundations of User Experience Design" offered by Coursera.
- A total of 4 students of third year completed the online course "Foundation of Cyber Security" offered by Coursera.

FINAL YEAR:

- A total of 10 students completed the online course "Java Full Stack" offered by Wipro Talent Next Course.

NPTEL Completed Student List

YEAR	STUDENT COMPLETED LIST
SECOND YEAR	45
THIRD YEAR	20

Table3: NPTEL COMPLETED STUDENT LIST

- A total of 45 students completed the online course "Programming in Java" offered by NPTEL IIT KHARAGPUR.
- Suba Shree M completed the online course "Python for Data Science" offered by NPTEL IIT MADRAS and Sanjay P completed the online course "Ethical Hacking" offered by NPTEL IIT KHARAGPUR.
- Aruna Devi M and M Mohamed Amma Gulsan completed the online course "Problem Solving through c" offered by NPTEL IIT KHARAGPUR.
- A total of 16 students completed the online course "Introduction to Machine Learning" offered by NPTEL IIT KHARAGPUR.

NPTEL registered student list

YEAR	STUDENT COMPLETED LIST
FIRST YEAR	188
SECOND YEAR	50
THIRD YEAR	54

Table4: NPTEL REGISTERED STUDENT LIST

Faculty Online Course

Online Course done by our faculties as shown in Table 5

Table5: Consolidated Faculty Online Course

Academic Year	Total no. of Courses	Total Faculty
2023-2024	13	16

- Dr. R. Venkatesh, Dr. M. Swarna Sudha, and Mr. K. Vignesh Saravanan completed the online course "Python for Data Science," offered by NPTEL IIT Kharagpur.
- Dr. B. Vijayalakshmi completed the online course "Programming, Data Structures, and Algorithms Using Python," offered by NPTEL IIT Madras.
- Dr. C. A. Yogaraja and Dr. I. Gethzi Ahila Poornima completed the online course "Database Management System," offered by NPTEL IIT Kharagpur.
- Ms. G. Sakthi Priya completed the online course "Introduction to Machine Learning," offered by NPTEL IIT Kharagpur.
- Mrs. T. Shruthi completed the online course "Data Science Using Python," offered by Aligarh Muslim University.
- Mrs. K. Jeyageetha completed the online courses "Naan Mudhalvan Robotic Process Automation Course," offered by UI Path, and "Problem Solving Through Programming in C," offered by NPTEL IIT Kharagpur.
- Mrs. S. Vijaya Amala Devi completed the online course "Introduction to Mathematical Thinking," offered by Stanford University through Coursera.
- Mrs. K. Jeyakarthika completed the online course "Supervised Machine Learning: Regression and Classification," offered by Stanford University through Coursera.

- Mrs. A. Sofia Thanga Mary has completed the online courses "Blockchain Foundation Program," "Blockchain 101," and "Introduction to Calculus," offered by Kerala Blockchain Academy, Infosys SpringBoard, and The University of Sydney, respectively.
- Mrs.M.Dhivya has completed the online courses “Naan Mudhalvan Robotic Process Automation Course” and ” Math 0-1:Calculus for Data Science and Machine Learning” offered by UI Path and Udemy.
- Mrs.P.Devisri has completed the online courses,” Foundation of user Experience Design”,” Build Wireframes and low fidelity prototypes”,” Conduct Ux Research and Test Early Concepts”, " Create High Fidelity design and protototypes”, “Start the Ux Design Process:Emphasize, Define and Ideate”,” Build Dynamics User Interfaces for website”,” Design user experience for Social goods and prepare for jobs”, and “Introduction to calculus” offered by Coursera.
- Mr. G. Muthupandi has completed several online courses, including "RWM102: Algebra," "Computer Forensics," "Windows Registry Forensics," "Windows OS Forensics," "Digital Forensics Concepts," "Introduction to Selenium," "Ethics & Privacy: Digital Forensics," "CS302: Software Engineering," "What is Software Development?" and "eLSI: Basics of Embedded Systems and Robotics," offered by Saylor Academy, Coursera, Simplilearn, and Infosys Springboard.
- Mrs. Priya has completed three online courses including “C Programming Course”, “C Programming Comprehensive Training Bundle”and “Programming in C” offered by Infosys Springboard and Coursera.
- Mrs. Madhu has completed three online courses including “Programming in C”, ”Java Full Stack” and ”Data Structures and Algorithms using Java” offered by Infosys Springboard and Wipro.
- Mr. R Balamurugan has completed three online courses including “Network Fundamentals”,” Fundamentals of Network Communication”,” Fundamentals of Data Networking”,” Peer to Peer Protocols and Local Area Networks” offered by Coursera and Infosys Springboard.

Suggestions Given by the panel members

- In the academic year 2023-24, include a list of 30-hour course details.
- In the academic year 2024-25 (Odd Semester), add the grades and marks for the online courses completed by faculty members.

6.Placement, Higher Studies

4.6 Placement, Higher Studies, and Entrepreneurship

Presenter:

Dr. M. Swarna Sudha, ASP/CSE, Ramco Institute of Technology.

This document summarizes the key points presented in the 9th PAQIC (Programme Assessment and Quality Improvement Committee) meeting. The topic discussed under section 4.6 pertains to Placement, Higher Studies, and Entrepreneurship with a focus on ensuring continuous improvement and achieving institutional goals.

This report provides an analysis of placement, higher studies, and entrepreneurship data for the academic years 2019–23, 2020–24, and 2021–25.

Summary of Data:

Item	2019-23	2020-24	2021-25
FS (Total number of final-year students)	57	66	-
X (Number of students placed)	48	51	-
Y (Number of students admitted to higher studies)	3	2	-
Z (Number of students taking up entrepreneurship)	NIL	NIL	-
X + Y + Z	51	53	-
Placement Index (P)	89.47%	80.30%	-

Key Observations:

1. **Placement Index:**
 - For the 2019–23 batch, the placement index was **89.47%**.
 - For the 2020–24 batch, the placement index reduced to **80.30%**.
 - Data for the 2021–25 batch is yet to be finalized.
2. **Entrepreneurship:**
 - No students have pursued entrepreneurial ventures in the batches analyzed.
3. **Higher Studies:**
 - A small percentage of students have opted for higher studies, with **3 students** in the 2019–23 batch and **2 students** in the 2020–24 batch.
4. **Average Placement Index:**
 - The average placement index calculation includes data from all available years. Currently:
 $(89.47 + 80.30 + [2021-25 \text{ Data Pending}]) / 3$

Student Enrollment in Higher Education Programs:

The following details about students enrolled in higher education programs at various institutions.

Student Enrollment Details

1. **Sri Ramakrishnan**
 - **Institution:** SSN College, Chennai
 - **Program:** ME CSE (Master of Engineering in Computer Science and Engineering)
2. **N. Matheswaran**
 - **Institution:** Vellaichamy Nadar College, Madurai
 - **Program:** MBA (Master of Business Administration)
3. **Vidya V**
 - **Institution:** Panimalar Engineering College
 - **Program:** MBA (Master of Business Administration)
4. **Vishnu Priya S**
 - **Institution:** SSN College of Engineering
 - **Program:** ME CSE (Master of Engineering in Computer Science and Engineering)
5. **Preetha P**

- **Institution:** National College of Engineering
- **Program:** ME CSE (Master of Engineering in Computer Science and Engineering)

Salary Trends Across Batches

It analyzes the highest and average salary trends for various academic batches from 2013 to 2025. The data showcases the salary progression of students, highlighting improvements in placement packages over the years.

1. **2013-2016 Batch**
 - **Highest Salary:** 4.0 LPA
 - **Average Salary:** 2.04 LPA
2. **2014-2018 Batch**
 - **Highest Salary:** 4.5 LPA
 - **Average Salary:** 2.49 LPA
3. **2015-2019 Batch**
 - **Highest Salary:** 4.65 LPA
 - **Average Salary:** 2.82 LPA
4. **2016-2020 Batch**
 - **Highest Salary:** 4.8 LPA
 - **Average Salary:** 2.87 LPA
5. **2017-2021 Batch**
 - **Highest Salary:** 5.0 LPA
 - **Average Salary:** 3.1 LPA
6. **2018-2022 Batch**
 - **Highest Salary:** 7.5 LPA
 - **Average Salary:** 3.79 LPA
7. **2019-2023 Batch**
 - **Highest Salary:** 8.4 LPA
 - **Average Salary:** 4.07 LPA
8. **2020-2024 Batch**
 - **Highest Salary:** 12 LPA
 - **Average Salary:** 4.11 LPA
9. **2021-2025 Batch (Ongoing)**
 - **Highest Salary:** 12 LPA
 - **Average Salary:** *Data not finalized*

There has been a steady increase in both highest and average salaries over the years. The highest salary has tripled from 4.0 LPA (2013-2016) to 12 LPA (2020-2025).

Placement Statistics for the Batch 2021-2025

The placement statistics for our batch (2021-2025) provide insights into the career opportunities secured by students. Out of a total class strength of **63 students**, **32 students** have successfully secured placements. This results in a placement percentage of **50.79%**,

The following table summarizes the placements across different companies:

Name of the Company	Number of Students Placed	Salary (P.A.)
Ramco Systems	9	4 LPA

Name of the Company	Number of Students Placed	Salary (P.A.)
VTS Enterprises	1	12 LPA
Centizen	6	3.6 LPA
Solartis	1	4.0 LPA
Ramco Cements	12	4.50 LPA
Amphisoft	1	4.6 LPA
CTS	1	4.50 LPA
Innowell	1	Internship cum Placement

\Placement Statistics for the Batch 2021-2024

The placement statistics for the **2021-2024 batch** demonstrate the strong career opportunities secured by students through various recruitment efforts. Below are the key details:

Category	Student Count
Class Strength	66
Placed Student Count	51 + 2
Placement Percentage	80.3%

Placement Statistics for the Batch 2021-2024

Below are the placement details for the **2021-2024 batch**, highlighting the number of students placed and the corresponding salary offers from various companies.

S.No.	Name of the Student	Company Name	Package
1.	AANANDA GANESAN R	Ramco Cements	4.5 LPA
2.	ABINAYA M	Hackwit Technologies	2.5 LPA
3.	AKHASH ARAVIND P	Rinex Technologies	5.2 LPA
4.	BALA MURALI KRISHAN R N	Data Pattern	4.2 LPA
5.	BHUVANESHWARI	BUsoft	3.5 LPA
6.	DHARANI RAJ V	Ramco Cements	4.5 LPA
7.	DHIRAJ N	Zoho	7.0 LPA
8.	DIVYA M K	Kaar Technologies	6.5 LPA
		TCS Ninja	3.36 LPA
9.	GAYATHRI DEVI S	Lavendel Consulting	12.0 LPA
10.	GNANAGURU VIGNESH	Hackwit Technologies	2.5 LPA
11.	GOPIY K J	Lavendel Consulting	12.0 LPA
12.	GOWTHAM KARTHIKEYAN	Ramco Cements	4.5 LPA
13.	HARINISRIVALLI V	Plintron	3.5 LPA
14.	HARSHA R	Lavendel Consulting	12.0 LPA
15.	IJAAS AHAMAD M	Hackwit Technologies	2.5 LPA
		Zoho	7 LPA
16.	JEGADESH B	Honeywell	3 LPA
17.	JOE ALAN R S	EConstruct Design & Build Pvt. Ltd.	2.5 LPA
18.	JOTHI LINGAPANDIAN M	Pyroferus	3.0 LPA
19.	KAMINI K	Hackwit Technologies	2.5 LPA
20.	KARTHIKEYAN B	Hackwit Technologies	2.5 LPA

S.No.	Name of the Student	Company Name	Package
21.	KARUNYA V	Hackwit Technologies	2.5 LPA
22.	K SYED ASLAM	Rinex Technologies	5.2 LPA
		Hackwit Technologies	2.5 LPA
23.	LAKSHMI PRIYA G	Rinex Technologies	5.2 LPA
24.	MUTHU BRIJESH R	Busoft	3.5 LPA
25.	MUTHU KUMAR K	Data Pattern	4.2 LPA
26.	NISHASHREE M	CTS	4 LPA
27.	PARANTHAMAN J	Lavendel Consulting	12.0 LPA
28.	PAVITHRA K	Kaar Technologies	6.5 LPA
29.	POOJA LAKSHMI T	Sundaram Finance	3 LPA
30.	PRAVEEN S	Ramco Cements	4.5 LPA
		Rinex Technologies	5.2 LPA
31.	RAGAVI VG	BUsoft	3.5 LPA
32.	RAJADHARSHINI S	Accenture	4.6 LPA
33.	RAJALAKSHMI R U	Solartis	4.0 LPA
34.	SARAVANA JOTHI G	Kaar Technologies	5.2 LPA
35.	SATHISH KANNAN M	TCS Ninja	3.36 LPA
36.	SATHISHKUMAR K	Dinamalar	3.4 LPA
37.	SHAKTHEE SARAVANA M	Hackwit Technologies	2.5 LPA
38.	SHAKTHI S	TCS Digital	7 LPA
39.	SHRI DHEIVA R	Solartis	5.0 LPA
40.	SIVAKUMAR M	Lavendel Consulting	12.0 LPA
41.	SIVAKUMAR P	Solartis	4.0 LPA
42.	SOWMIYA V	Rinex Technologies	5.2 LPA
		Movate Technologies	3.75 LPA
		Hackwit Technologies	2.5 LPA
43.	SRINIDHI R	Ramco Systems	4 LPA
44.	S SHANMUGAPRIYA	TCS Digital	7 LPA
45.	SUKUMARAN G	Hackwit Technologies	2.5 LPA
46.	VENESHA L	Kaar Technologies	6.5 LPA
47.	VINO A	Ramco Cements	4.5 LPA
48.	BALA MURUGAN K	Data Pattern	4.2 LPA
49.	RAAMA KRISHNAN V R	Pyroferous	Training / Intern
50.	SATHYA NARAYANAN B	Lavendel Consulting	12.0 LPA
51.	SUBRAMANI LOKESH	Vibhati Labs	3 LPA
		Zinnov	1.6 LPA

Placement Statistics for the Batch 2019-2023

For the 2019-2023 batch, the following placement details are noted:

Category	Student Count
Class Strength	57
Placed Student Count	48 + 3 (Higher Education)

Category
Placement Percentage

Student Count
89.47%

Below are the placement details for the **2019-2023 batch**, highlighting the number of students placed and the corresponding salary offers from various companies.

Sl. No.	Reg. No.	Student Name	Company Name	Salary (P.A.)
1.	953619104001	ABHINAV R	Renault Nissan	4.25 LPA
2.	953619104002	AJITHA R	Techfully	3.0 LPA
3.	953619104004	ANNLYN SARAH J P	Ramco Systems	4.0 LPA
4.	953619104005	ASWINKUMAR M	VTS	6.0 LPA
5.	953619104006	ATHIVIGNESHKUMAR N	Zoho	8.4 LPA
6.	953619104009	DHARINI B	ICSR,IIT Madras	
7.	953619104010	DHARSANA R	Cognizant	4.0 LPA
8.	953619104011	DINESH KUMAR M	Technologies	4.0 LPA
9.	953619104012	GIFTY SHARON K	NCompass	6.5 LPA
10.	953619104013	GOPI SANKAR P	Sandhata	3.4 LPA
11.	953619104014	HARIHARAN M	Rolumn Tech	2.4 LPA
12.	953619104015	HARINI M	Sandhata	3.4 LPA
13.	953619104016	IVARAJ C	Benhive	3.0 LPA
14.	953619104017	JAYA DHARSHINI G	Kaar Technology	6.5 LPA
15.	953619104018	JAYARANI M	Ramco Cements	4.5 LPA
16.	953619104019	JAYA SHRI K K	Avasoft Technologies	5.0 LPA
17.	953619104020	KANTHIMATHINATHAN A	Ramco Systems	4.0 LPA
18.	953619104021	KAVITHANJALI K	Rolumn Tech	2.4 LPA
19.	953619104022	KISHORE KUMAR S	Kaar Technology	6.5 LPA
20.	953619104023	KRISHNA K	Cognizant	4.0 LPA
21.	953619104024	KRISHNA SRINIVAS P	Ramco Systems	4.0 LPA
22.	953619104025	LAVANYADEVI K	Cognizant	4.0 LPA
23.	953619104026	LOKESH IYYAPPAN A	Aspire Systems	3.8 LPA
24.	953619104027	MALINI M	Avasoft Technologies	5.0 LPA
25.	953619104029	MOHAMED SHEHIN S	Ethnus	2.4 LPA
26.	953619104031	PRASATH A	Ethnus	2.4 LPA
27.	953619104032	RATHESH PRAVEEN P	Aspire Systems	3.8 LPA
28.	953619104033	SAHANA SRI R	Ramco Systems	4.0 LPA
29.	953619104034	SAKTHISWATHI A	Zoho	8.4 LPA
30.	953619104035	SANGEETHA P	Aspire Systems	3.8 LPA
31.	953619104037	SHRIYA R	Accenture	5.0 LPA
32.	953619104038	SOPHIASREE K	Ramco Systems	4.0 LPA
33.	953619104039	SRIRAM K	Market Simplified	4.5 LPA
34.	953619104041	SWATHIKA B	Rhein Brucke	4.25 LPA
35.	953619104042	SWATHY SANTHOSH	Maxvy	3.0 LPA
36.	953619104043	THARINI K	Ramco Systems	4.0 LPA

Sl. No.	Reg. No.	Student Name	Company Name	Salary (P.A.)
37.	953619104045	ULAGESWARAN T	Kaar Technology	6.5 LPA
38.	953619104046	VAISHNAVI V S	Ramco Cements	4..5LPA
39.	953619104047	VAISHNAVIRAJAM R	Rolumn Tech	2.4 LPA
40.	953619104049	VIGNESH A	Aspire Systems	3.8 LPA
41.	953619104050	VIJAIBALAJI N	Ethnus	2.4 LPA
42.	953619104051	VIJAY AADHITHYA M	Ramco Systems	4.0 LPA
43.	953619104052	VIJAYALAKSHMI R	Ramco Cements	4.5 LPA
44.	953619104053	VISWAJITH SAAIRAM S K	Zoho	8.4 LPA
45.	953619104054	VITHYA THARANI M	Rolumn Tech	2.4 LPA
46.	953619104055	YUVAASRI R K	Ramco Systems	4.0 LPA
47.	953619104301	JAYA RAMA SANKARA MOORTHY J	Centizen	4.0 LPA
48.	953619104302	KOWSHIK R	Alcatellucent enterprise	8.0 LPA

Suggestion & comments by PA&QIC Members: Nil

7. Faculty Contributions to Professional Development

- 6.1.1. Memberships in Profession Societies at National/International Levels
- 6.1.2. Faculty as Resource Persons or Participants in STTPs/FDPs
- 6.1.3 - Faculty Contribution in Development of SWAYAM MOOCs and other E-Content
- 6.1.5. FDP/STTP Organized by the Department
- 6.1.6. Faculty Support in Student Innovative Projects

Presenter: Mrs.K.Priya AP/CSE

6.1.1 Memberships in Profession Societies at National/International Levels

Faculty members actively participate in well-established organizations such as the **IEEE (Institute of Electrical and Electronics Engineers)**, **ACM (Association for Computing Machinery)**, **CSI (Computer Society of India)**, and other discipline-specific societies. These memberships provide faculty access to cutting-edge research, industry developments, and academic resources that are essential for staying updated in their respective fields.

Name of the Professional Societies	Number of Faculty Joined
CSI	6
ACM	5
IEI	11
ISTE	10
IEEE	2

List of Memberships in Profession Societies at National/International Levels

Sl. No	Name of the Faculty	Name of the Professional Society /Body at National and International Level	Name of the Grade/ Level/ Position
1	Dr.K.Vijayalakshmi	CSI	Life Member
		ACM	Member
		ISTE	Fellow Member
		IEI	Life Member
		IEEE	Member From January
2	Dr.R.Venkatesh	ISTE	Life Member
		ACM	Member
3	Dr.M.Swarna Sudha	CSI	Member
		ISTE	Life Member
		ACM	Member from January
4	Dr.I.Gethzi Ahila Poornima	ACM	Member
5	Dr..B.Vijayalakshmi	ISTE	Life Member
		IE	Member From January
6	Ms.P.Jothi Thilaga	ISTE	Life Member
		CSI	Member
7	Mrs.S.Manjula	ISTE	Life Member
		CSI	Member
8	Dr.C.A.Yogaraja	ISTE	Life Member
		CSI	Member
9	Mr.K.Vignesh Saravanan	ISTE	Life Member
		IEI	Life Member (Since Nov-2024)
10	Ms.G.Sakthi Priya	ISTE	Life Member
		IEI	Member From January
11	Mrs.K.JeyaGeetha	ISTE	Life Member
		IEI	Member From January
12	Mrs.K.Jeyakarhika	ISTE	Life Member
		CSI	Member From January
13	Mrs.S.Vijaya Amala Devi	IEI	Member From January
14	Mrs.A.Sofia Thanga Mary	IEI	Life Member

15	Mrs.M.Dhivya	CSI	Member From January
16	Mrs.P.Devisri	IEI	Life Member
17	Mr.R.Balamurugan	ACM	Member
18	Mrs.R.Madhu	IEI	Member From January
19	Mrs.K.Priya	IEI	Life Member
20	Ms.P.RajaRajeswari	IEEE	Member From January

6.1.2 Faculty as Resource Persons or Participants in STTPs/FDPs

Faculty Participation Details

Number of Faculty Attended		
FDP/STTP		
Year	2023-2024	2024-2025
Number of Faculty Participated in FDP/STTP	Faculty: 14 FDP : 23	Faculty: 17 FDP : 34

Sl.No	Name of the Faculty as Resource Person or participant	Name of the STTP/FDP	Date	Organized by
CAYm3(2023-2024)				
1	Dr.K.Vijayalakshmi	Excel Analytics: Unleashing the Power of Data for Practical Research	03.06.2024 to 07.06.2024	Inspire Softech Solutions
2	Dr.R.Venkatesh	Android Basics with Compose	15.04.2024 to 20.04.2024	ICT Academy
		Clinical Intelligence: Exploration with AI Tools	03.06.2024 to 07.06.2024	Mepco Schlenk Engineering College, Sivakasi
3	Dr.M.Swarna Sudha	Research Papers, IPR and Project Proposal Writing	06.05.2024 to 11.05.2024	ABES Engineering College, Ghaziabad
		Computer Networks and Internet Protocol	Jan – April 2024	NPTEL

		National Education Policy 2020 – Challenges in Implementation in Higher Education	18.03.2024 to 23.03.2024	Chaitanya Bharathi Institute of Technology, Hyderabad
4	Ms.P.Jothi Thilaga	Design and Analysis of Algorithms	Jan –March 2024	NPTEL
		AI, ML and DS for Engineering Applications	02.05.2024 to 11.05.2024	NIT Warangal, & SJB Institute of Technology, Bangalore
5	Mrs.S.Manjula	Programming in Java	Jan. – April 2024	NPTEL
		National Education Policy 2020 – Challenges in Implementation in Higher Education	18.03.2024 to 23.03.2024	Chaitanya Bharathi Institute of Technology, Hyderabad
6	Dr.C.A.Yogaraja	Research Papers, IPR and Project Proposal Writing	06.05.2024 to 11.05.2024	ABES Engineering College, Ghaziabad
		Programming in Modern C++	Jan2024 – April 2024	NPTEL
7	Ms.G.Sakthi Priya	Programming in Java	Jan. – April 2024	NPTEL
		Emerging Technology in Artificial Intelligence	19.02.2024 to 24.02.2024	Jeppiaar Institute of Technology
		Emerging Tools & Techniques in Machine Learning and Data Science	05.02.2024 to 10.02.2024	Madanapalle Institute of Technology & Science
		Building Advanced Data Analytics Application with Cloud	29.01.2024 to 02.02.2024	AICTE (NextGen Employability Program)
8	Mr.K.Vignesh Saravanan	Database Management System	Jan. –March 2024	NPTEL
9	Mrs.K.Jeyageetha	Recent Trends in Artificial Intelligence	22.01.2024 to 27.01.2024	Bhupal Nobles' University, Udaipur

10	Mrs.K.Jeyakarthika	CS3491 Artificial Intelligence and Machine Learning	12.02.2024 to 17.02.2024	Kamaraj College of Engineering and Technology (Anna University Sponsored FDTP)
11	Mrs.A.Sofia Thanga Mary	The Joy of Computing using Python	Jan. – April 2024	NPTEL
CAYm2(2024-2025)				
1	Dr.K.Vijayalakshmi	Artificial Intelligence for Machine Vision and Medical Imaging Applications	26.12.2024 to 06.01.2024	NIT Warangal
2	Dr.R.Venkatesh	Python for Data Science	July - Aug. 2024	NPTEL
		When Big Data Meets AI	26.11.2024 to 30.11.2024	AAA College of Engineering and Technology
		Quantum Computing – Research Perspective in Healthcare Applications	16.12.2024 to 21.12.2024	P.S.R. Engineering College (ATAL)
3	Dr.M.Swarna Sudha	Salesforce Administrator	19.08.2024 to 23.08.2024	ICT Academy
		Python for Data Science	July - Aug. 2024	NPTEL
		Exploring Advanced Data Sciences - Tools, Techniques and Trends	09.12.2024 to 14.12.2024	Anand Institute of Higher Technology, Chennai (ATAL)
		Quantum Computing – Research Perspective in Healthcare Applications	16.12.2024 to 21.12.2024	P.S.R. Engineering College (ATAL)

4	Dr.I.Gethzi Ahila Poornima	FDP on "Optimization Technique:Theory, Practice, and Emerging applications	21.10.2024 to 31.10.2024	NIT Warangal
5	Dr.B.Vijayalakshmi	Advanced Developments in AI-From Basics of AI to Generative AI, Explainable AI, and Beyond	23.09.2024 to 29.09.2024	IIT Roorkee
		Programming, Data Structures and Algorithms using Python	July-Sep. 2024	NPTEL
		Unveiling Quantum Computing from Qubits to Quantum Algorithms: An Interdisciplinary Engineering Perspective	02.12.2024 to 07.12.2024	R.M.K. College of Engineering and Technology, Puduvoyal (ATAL)
6	Mr.K.Vignesh Saravanan	Python for Data Science	July - Aug. 2024	NPTEL
7	Ms.P.Jothi Thilaga	Introduction to Machine Learning	Jul-Oct 2024	NPTEL (IIT Madras)
		Advances in Artificial Intelligence for Computing Vision and Medical Image Analysis Applications	04.11.2024 to 14.11.2024	NIT Warangal
8	Dr.C.A.Yogaraja	Database Management Systems	July-Sep. 2024	
		Leveraging Healthcare: Innovations, Technology and Applications (HealthITA)	16.12.2024 to 21.12.2024	National Institute of Technology, Delhi

9	Ms.G.Sakthi Priya	Building Web Development Solutions with Cloud Computing	02.09.2024 to 06.09.2024	AICTE-TLB
		Introduction to Machine Learning	July-Sep. 2024	NPTEL
		High Performance Computing for Medical Image Processing and Computer Vision	09.12.2024 to 14.12.2024	MNNIT Allahabad (ATAL)
		The future of Quantum computing and High-performance computing (HPC)	23.12.2024 to 28.12.2024	P.S.V. College of Engineering and Technology, Krishnagiri (ATAL)
10	Mr.R.Balamurugan	High Performance Computing for Medical Image Processing and Computer Vision	09.12.2024 to 14.12.2024	MNNIT Allahabad (ATAL)
11	Mrs.K.JeyaGeetha	The future of Quantum computing and High-performance computing (HPC)	23.12.2024 to 28.12.2024	P.S.V. College of Engineering and Technology, Krishnagiri (ATAL)
12	Mrs.S.Vijaya Amala Devi	Recent Advancements in AI and IoT – Industry Perspective	25.11.2024 to 30.11.2024	Periyar Maniammai Institute of Science and Technology, Thanjavur
13	Mrs.K.Priya	AI and ML for Science and Engineering Applications	22.07.2024 to 02.08.2024	NIT Warangal
		Generative AI and Advanced Tools for Academic Research	23.09.2024 to 29.09.2024	ScrollWell
14	Mrs.R.Madhu	AI and ML for Science and Engineering Applications	22.07.2024 to 02.08.2024	NIT Warangal

		Cutting Edge AI for Autonomous Vehicles: Advanced Research and Innovations	09.12.2024 to 14.12.2024	Kalasalingam Academy of Research and Education (ATAL)
15	Mrs.P.Devisri	Cutting-Edge Technologies in Computer Science	23.09.2024 to 29.09.2024	Eswari Engineering College, Chennai
16	Mrs.A.Sofia Thanga Mary	Cutting-Edge Technologies in Computer Science	23.09.2024 to 29.09.2024	Eswari Engineering College, Chennai
		Cyber Security Essentials and Digital Forensics	09.12.2024 to 14.12.2024	Srinivasa Ramanujan Institute of Technology (ATAL)

6.1.2.2 Faculty Members' Participation in STTPs/FDPs

6.1.2.2.1 List of Faculty members participated in STTP/FDP events

S.No	Name of the Faculty as Resource Person or Participant	Max. 5 per Faculty		
		CAYm1 2025-2026	CAYm2 2024-2025	CAYm3 2023-2024
1	Dr.K.Vijayalakshmi	-	5	5
2	Dr.R.Venkatesh	-	5	5
3	Dr.M.Swarna Sudha	-	5	5
4	Dr.I.Gethzi Ahila Poornima	-	-	5 (NPTEL)
5	Dr..B.Vijayalakshmi	-	5	5
6	Ms.P.Jothi Thilaga	-	5	5
7	Mrs.S.Manjula	-	5	5
8	Dr.C.A.Yogaraja	-	5	5
9	Mr.K.Vignesh Saravanan	-	5 (NPTEL)	5 (NPTEL)
10	Ms.G.Sakthi Priya	-	5	5
11	Mrs.K.JeyaGeetha	-	5	5

12	Mrs.K.Jeyakarhika	-	5	5
13	Mrs.T.Shruthi	-	Not Applicable	-
14	Mrs.S.Vijaya Amala Devi	-	5	-
15	Mrs.A.Sofia Thanga Mary	-	5	5 (NPTEL)
16	Mrs.M.Dhivya	-	-	-
17	Mrs.P.Devisri	-	5	-
18	Mr.R.Balamurugan	-	5	-
19	Mrs.R.Madhu	-	5	Not Applicable
20	Mrs.K.Priya	-	5	Not Applicable
21	Ms.P.RajaRajeswari	-	-	Not Applicable
SUM		-	85	60
RDF = Number of faculty required to comply with the 20:1 student-faculty ratio in the Department alone, as per section 5.1 of SAR (RDF=DS/20).		-	17	17
Assessment Points (AP) = (Sum/(0.5* RDF)) (Points limited to 5 for each assessment year)		-	AP2=5(10)	AP1=5(7.05)
Average assessment points over 3 years = ((AP_1+AP_2+AP_3)/3) (Marks limited to 5 over the assessment period)			5 (8.525)	

6.1.5 FDP/STTP Organized by the Department

Sl.No	Name of the Program	Date of the Program	Duration of the Program	Name of the Speaker & Designation and Organization	No. of People Attended
CAYm1(2025-2026)					
-					
CAYm2(2024-2025)					
-					
CAYm3(2023-2024)					

1	CCS366 - Software Testing and Automation sponsored by Anna University	24.06.2024 to 29.06.2024	6 days	Dr.S.Saroja, Assistant Professor, NIT Trichy Dr.S.Kavipriya, Professor, Mepco Schlenk Engineering College,Sivakasi Ms.Vennila, Senior QA Automation Engineer, Metricbees Private Limited, Chennai Mr.R.Vigneshwar, Senior Consultant, Neudesic Technologies, Bangalore Mr.P. Ranganathan, Project Manager, CTS, Chennai	39
2	DevOps (STTP)	05.02.2024 to 10.02.2024	6 days	Mr.R.Sathish and Mr.Gautham from Trusty Bytes	43

6.1.6. Faculty Support in Student Innovative Projects

Sl.No	Name of the Faculty	Name of the Event	Date of Event	Place of Event
CAYm1(2025-2026)				
-				
CAYm2(2024-2025)				
1	Mrs.S.Manjula	Hack Tamizhagam - A 24-Hour Hackathon	15.12.2024	-
2	Mrs.K.Jeyakarhika	VNR Cyber WarZone 2.0- Allurupalli Nageswara Rao	09.11.2024	Vignana Jyothi Institute of Engineering and Technology
3	Dr.K.Vijayalakshmi	Hack Hustle	26.10.2024 to 01.11.2024	Saveetha Engineering College, Chennai
4	Mrs.S.Vijaya Amala Devi	HackZ'24 24hour National level Hackathon	30.10.2024 to 31.10.2024	College of Engineering, Guindy

5	Dr.M.Swarna Sudha, Mrs.S.Manjula	Round1: Executive summary submission of the EY Techathon 4.0	Oct 2024	-
6	Mrs.S.Vijaya Amala Devi	Hack2Hire-UnStop	22.10.2024	-
7	Mrs.P.Devisri	UI/UX Hackathon designing the Future	Oct 2024	Design company, NIT Patna
8	Ms.P.Rajarajeswari	Codemathon-2024	29.09.2024	ANANT- The Mathematical Society, NIT Kurukshetra
9	Mr.K.Vignesh Saravanan, Mrs.P.Devisri	Hackathon-Data Dash	25.09.2024	Jeppiar College, Chennai
10	Mrs.S.Manjula	BlockHack 2024 hosted by Kerala Blockchain Academy	21.09.24 to 22.09.24	IITM-K building, Technopark Phase-I, Thiruvananthapuram.
11	Ms.P.Rajarajeswari	Hackathon - 2024	31.08.2024	Supreme Court of India
12	Mr.K.Vignaesh Saravanan Mrs.K.Jeya Karthika	Flipkart Grid 6.0- Software Development Track	12.08.2024	Flipkart website

CAYm3(2023-2024)

1	Dr.R.Venkatesh	Cyber Security Competition Apoorv – Capture the flag 2024	06.04.2024	IIIT Kottayam
2	Dr.B.Vijayalakshmi	Level 1 Learnathon - NM-AU- TNcpl, GUVI	16.02.2024	MIT, Chennai
		Level 2 Coders Premier League Ideathon Level 2 Selection Shortlised for Level 3 Round	27.03.2024	
		Level 3 Project title " Emdtion Reggnition From Text - Great Hackathon of Naan Mudhalvan- Anna University	12.04.2024 to 13.04.2024	

3	Ms.P.Jothi Thilaga	Yukthi Capture the Flag(CTF) Cyber Security Hackathon,	17.03.2024	Tamilnadu Police & Saveetha Engineering College
4	Mrs.M.Dhivya	Pecan ⁺ Capture the Flag(CTF) Cyber Security Hackathon	05.03.2024 - 06.03.2024	PALS @ Edith Cowan University, Australia
5	Dr.R.Venkatesh Dr.C.A.Yogaraja Ms.G.Sakthipriya	Smart India Hackathon 2023 Team1: Bro Code 23 (Chennai)	19.12.2023 - 20.12.2023	St.Joseph's College of Engineering, Chennai
6	Dr.R.Venkatesh Ms.P.Jothi Thilaga	Smart India Hackathon 2023 Team2: Blasting Bubbles (Bhopal)	19.12.2023 - 20.12.2023	IES College of Technology, Bhopal
7	Dr.B.Vijayalakshmi	"Makeathon", ICT ACADEMY,	21.11.2023 to 22.11.2023	Rajalakshmi Institute of Technology, Chennai
8	Dr.B.Vijayalakshmi Mr.K.Vignesh Saravanan	TECHPRAGNA - RIT Internal Hackathon	17.11.2023	RIT-Training and placement cell and Deepsphere.AI
9	Dr.C.A.Yogaraja	Cyber Thon 2023	17.11.2023 to 18.11.2023	Chandigarh police and Infosys
10	Dr.K.Vijayalakshmi	Hackathon - ENVISION	16.11.2023	IEEE Computer Society SSN at the Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam
11	Mr.K.Vignesh Saravanan	GDSC hackathon	10.10.2023 & 11.10.2023	KSR College of Technology, Tiruchengode
12	Mr.K.Vignesh Saravanan	Contest on "Hacktoberfest 2023", Digital ocean	18.09.2023 to 24.09.2023	-

Suggestions given by the Panel Members:

- Insisted to complete Faculty as a Resource person tabular column

8.Faculty Achievement and Student Achievement

Prepared by: Mrs.S.Manjula, AP(SG)/CSE

Awards and Achievements

During the period from June 2024 to December 2024, the student achievements were presented. The highlights included:

1)Details about students Accomplishments

Academic and Research Achievements

- Anna University Rank Holder (Batch 2019–2023): Secured 11th rank.
- ISTE-NIT Kozhikode National Award for the Best B.Tech Project: Received this prestigious recognition for innovative project work.

Hackathons and Technical Achievements

- Cybersecurity Challenge: Secured an international award worth \$4,500 (Rs. 3,74,582), showcasing exceptional technical skills.
- BlockHack 2024 (Kerala Blockchain Academy): Achieved 6th place in the intense 32-hour blockchain hackathon.
- Data Dash: Unleashing Insights Hackathon (Jeppiaar College): Secured III position in this data analytics challenge.
- Coding Challenge: Students achieved 12th and 13th ranks

Entrepreneurship and Leadership

- PG RYLA BaE 38.0 – Race to Singapore:
 - Athish, II CSE-A emerged as the winner of this entrepreneurship workshop and competition, securing a fully sponsored 5-day, 4-night business trip to Singapore.
 - Recognized for Best Business Workbook and Best Business Poster during the event.
 - R. Janaramji, II CSE-A RYLA displayed exceptional talent in the RYLA finals '40.0 securing a fully sponsored 5-day, 4-night business trip to Singapore.

Innovation and Project Awards

- Naan Mudhalvan–Project Award: Recognized for an exceptional project under this state initiative.
- Niral Thiruvizha Awards:
 - Secured a cash prize of Rs. 10,000/- for innovative contributions.

Skill Contests and Certifications

- Highlighted that Folonite made great progress as a pioneering startup. It achieved over 2,500 downloads of Folonite.js within just 30 days and also discussed the key members, products, and other important achievements of the startup.
- Merit Certificate in the Young Turks – India's Largest Skill Contest:
 - Selvaruba S, a fourth-year CSE student, achieved a Merit Certificate with an All India Rank (AIR) of 8871 among 5.13 lakh participants.
- NPTEL Certifications: Successfully completed 12-week certification courses, enhancing technical expertise.
- Infosys Springboard Internships: Harini P and Manisha Sree secured internships at Infosys Springboard 5.0.

Creative and Artistic Accomplishments

- Video Making Competition: Secured III Prize for creative storytelling.
- Freedom Art Gallery: Won III Prize, showcasing artistic talents.

Product and Gaming Competitions

- Building the Better Product Competition: Achieved the position of II Runner-Up, emphasizing innovation in product development.
- Champions of the RIT Scrabble Tournament: Demonstrated linguistic and strategic skills to win the tournament.

2) Details about faculty Accomplishments

Academic and Research Achievements

- PhD Completions: Two faculty members successfully completed their PhD.
- TNSCST Grant: Secured a project grant of Rs. 7,500/- from the Tamil Nadu State Council for Science and Technology, supporting innovative research initiatives.

Professional Certifications

- Wipro Certified Faculty: Four faculty members achieved certifications from Wipro, strengthening their teaching capabilities and industry relevance.
- Certified in eLSI Basics of Embedded Systems and Robotics: Faculty gained expertise in embedded systems and robotics, reflecting advancements in technological domains.

NPTEL Achievements

- Database Management System (IIT Kharagpur): Faculty ranked in the Top 1%, demonstrating expertise in a fundamental area of computer science.
- Python for Data Science: Achieved Top 1% ranking, underscoring advanced knowledge in data science and programming.
- Introduction to Machine Learning (Elite + Silver): Faculty attained this recognition, showcasing their proficiency in machine learning concepts and applications.

9. Facilities and Technical Support

The following details were presented regarding the facilities and technical support available in the department:

- 7.1 Adequate and well equipped laboratories, and technical manpower
- 7.2. Additional facilities created for improving the quality of learning experience in laboratories
- 7.5. Project Laboratory/Research Laboratory /Centre of Excellence
- A comprehensive overview was provided of the various laboratories available to students, including the High Performance Computing Laboratory, Open Source Laboratory, and Cloud Computing and Cyber Security Laboratory.
- Details were presented on the weekly utilization status for each lab setup, ensuring the equipment is put to use for various courses. The qualifications and roles of technical staff

responsible for maintaining the lab infrastructure, assisting students, and providing technical support in networking, cybersecurity, and AI were also outlined.

- The presentation covered additional facilities aimed at improving the learning experience, including Apple iMac Systems (5), Apple iPhone 7 (1), Apple iPad Pro (1), and NVIDIA GPU-Powered Dell Workstations for AI applications. Additional tools like LoRa Kits, LAN Trainer Kits, and software packages such as Anaconda, TensorFlow, and MongoDB were also highlighted to support the learning environment.
- Information was provided on the Project Laboratory, which includes 72 computer systems with Intel Core processors, creating an excellent environment for hands-on learning. The Research Laboratory, equipped with 17 high-performance systems featuring Intel Core i7 processors, was also presented as a space supporting advanced research activities. The AR-VR Laboratory, part of the Centre of Excellence, with Meta Quest 3 headsets, Car Simulators, and HP Workstations, was highlighted as a platform for immersive learning experiences in augmented and virtual reality.
- **Suggestions Given by Panel Members**

During the meeting, the panel members expressed their appreciation for the students' exemplary performance in achievements, such as Folonite-Startup, NPTEL certification courses, and various hackathons. They also inquired about the additional facilities created after the NBA accreditation, the inclusion of various software tools, and the configurations of the Apple iMac systems.

10. Industry Institute Interaction

2.8 Steps Taken for Enhancing Industry Institute Partnerships

2.3 Internship, IPT & IV

3.4 Evaluation of Industrial Training/ Internship (Continuous and SEE)

6.1.7 Faculty Internship/Training /Collaboration with Industry

Presenter: Mr.K.Vignesh Saravanan, AP(SG)/CSE

The Steps Taken for Enhancing Industry Institute Partnerships and Faculty Internship/Training/Collaboration with Industry were presented.

- Increased industry interaction through industry experts' lectures for partial delivery of course and content beyond syllabus.
- Industrial Collaborations and partnerships are strengthened through various activities like Industry projects, Industry supported Labs, Partial Delivery of courses, Industrial Guest Lectures & Workshops, Industry offered Training & Certification, Industry based online courses, Faculty Industrial Training

The process owner of institute industry interaction cell presented the MOU signed companies by the department, industrial support laboratories established and Industry institute outcome. The discussion of MOU signed industry wise activity outcomes are given in the following section.

INDUSTRY BASED PROJECTS

- Raja Nursery - Industry project – Project on Mobile App to measure tree Height, width, bark width with AWS Connectivity – Geolocation mapping of tree, Buyer, Seller connectivity, ONDC integration – is completed and Patent applied.
- 3 students received Internship Certificate with stipend Rs.3,000/- as shown in figure 2

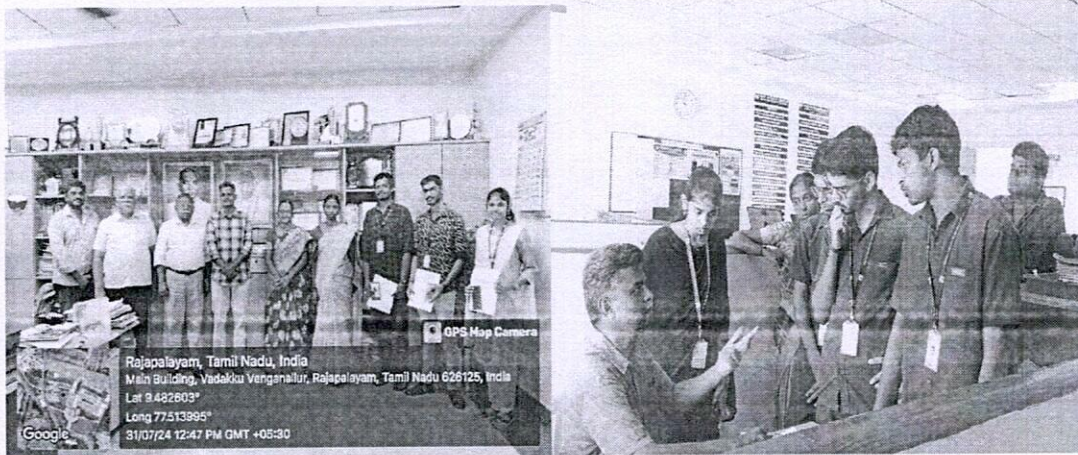


Fig.2 Glimpses of Activities carried out in Raja Nursery projects, Rajapalayam

Magnion Technology - Industry project

Sl.No.	Project Title	Students Team	Status
1	Web Application development Project	Maheshkumar M, Vignesh Prabhu M & Vijayasarathy R	Completed
2	Game Design Project	Hari Krishnan, Aswanth, Afrida	In-progress

The following fig.3 shows the glimpses of activities carried out in Magnion Technology.

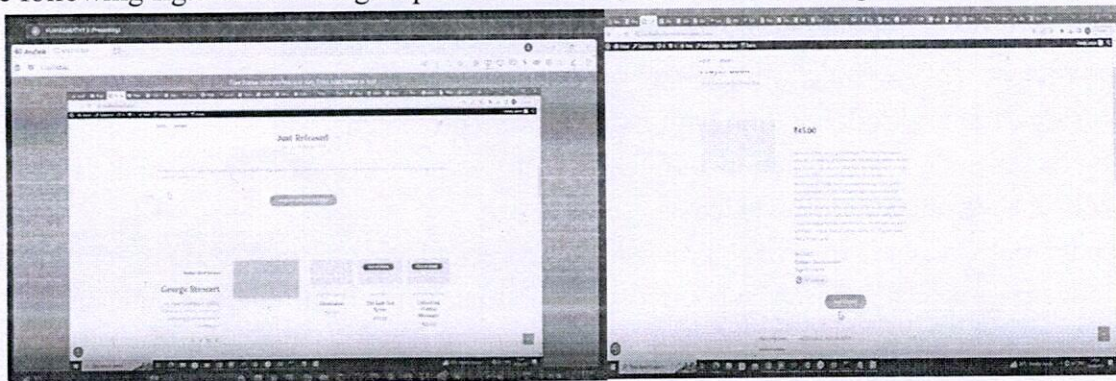


Fig.3 Glimpses of Activities carried out in Magnion Technology

Gowri House Metal works - Industry project

Sarveshwar, Anish Kumar, Jeya Aravinth, Hari. Krishnan, visited company on 16.10.2024 and initiated the Website development project. Application development completed and deployed in the industry. The screenshot of the website application is shown in the fig 3.

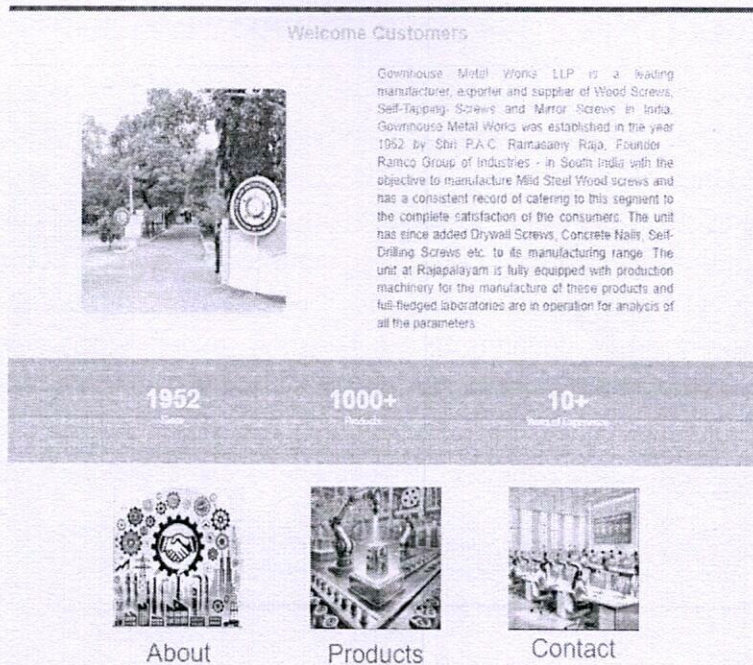


Fig.4 Glimpses of Activities carried out in Magnion Technology

Jupyter brothers Data Science, Pvt Ltd.

Industry module – Inakkum app, was developed by the students Advait K S, Karthikeyan K and completed 4 months of internship from May 1, 2024 - August 31, 2024 and received stipend of Rs.15000/-. Currently 4 students are undergoing internship in “Automated Data Processing and Presentation with AWS Services” and “Full stack Development”

V-Invent – Pacco Pro Industry Project

Automation of paint Inventory management was carried out from January 2024 to till date. Barcode scanner module implemented with in/out process completed. The student’s active participation while deploying the in/out module was shown in the fig 5.



Fig.5 Glimpses of Activities carried out in Pacco Pro Industry Project

CENTRE OF EXCELLENCE FOR CYBER SECURITY (Supraja Technologies)

The Centre of Excellence for Cyber Security at Supraja Technologies is a strategic initiative designed to advance cybersecurity skills, research, and industry collaboration. The Centre focuses on developing cutting-edge cybersecurity expertise through specialized training, research in emerging trends, and partnerships with industry leaders. The Centre aims to develop advanced training programs to upskill students, professionals, and researchers in the latest cybersecurity techniques and tools. This Centre of Excellence fosters a research environment that encourages innovation in cybersecurity, including the development of new methodologies for threat detection, prevention, and response. It builds on the success of events like hackathons and aims to empower students and faculty with the latest tools and knowledge to address real-world cybersecurity challenges and drive innovation in the field.

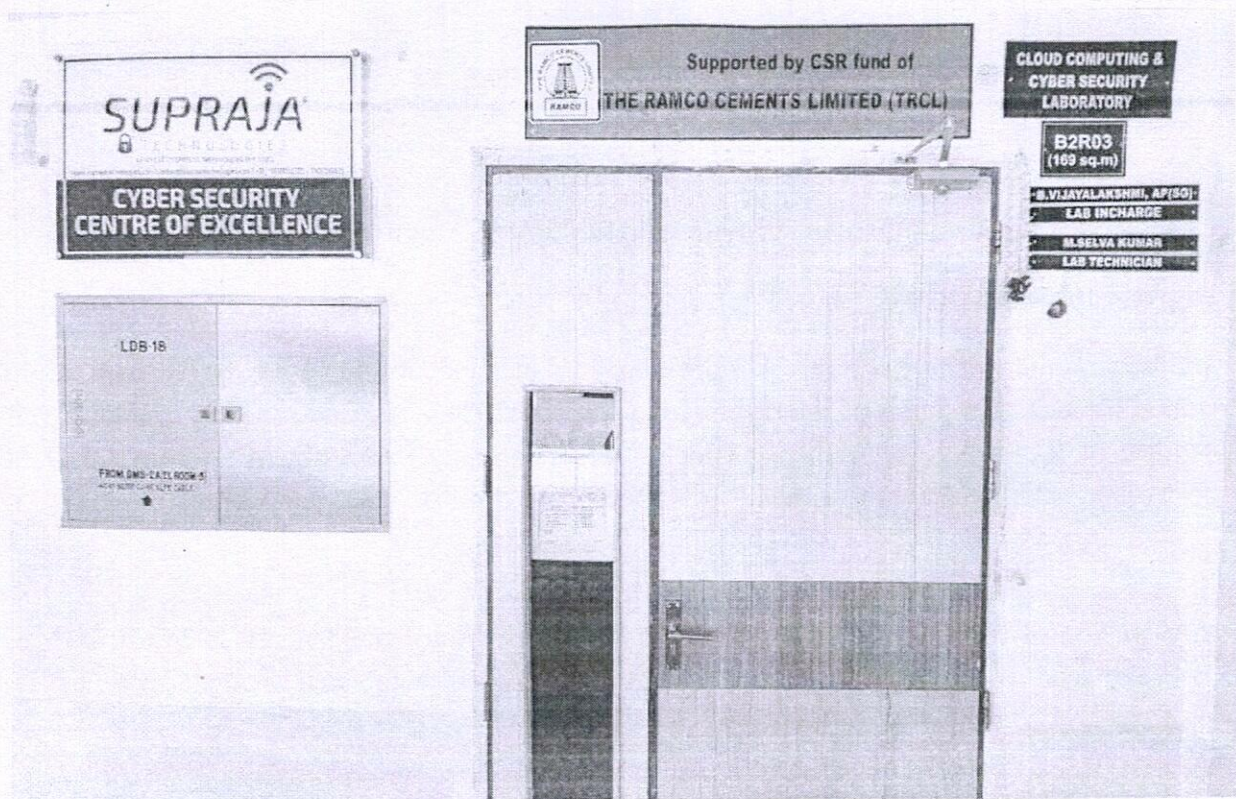


Fig.6 Centre of Excellence for Cyber Security at Supraja Technologies

- **Ethical Hacking and Cyber Security Workshop (Level-2) & Hackathon:**
 - ❖ 5 Days Practical Hands-on Ethical Hacking and Cyber Security Workshop (Level-2) from 8th August to 13th August 2024. Followed by 12-hours Hackathon was conducted with the capture the flag (CTF) Challenges on 14th August 2024.
 - ❖ 127 students of II-year and III-year from various departments had participated in this workshop and Hackathon as shown in fig 7.
 - ❖ 35 students got Internship offer from Supraja Technologies.
 - ❖ 28 students got Certificate of Excellence Internship offer from Supraja Technologies



Fig.7 Students participation in Cyber Security Hackathon

PARTIAL DELIVERY OF COURSES

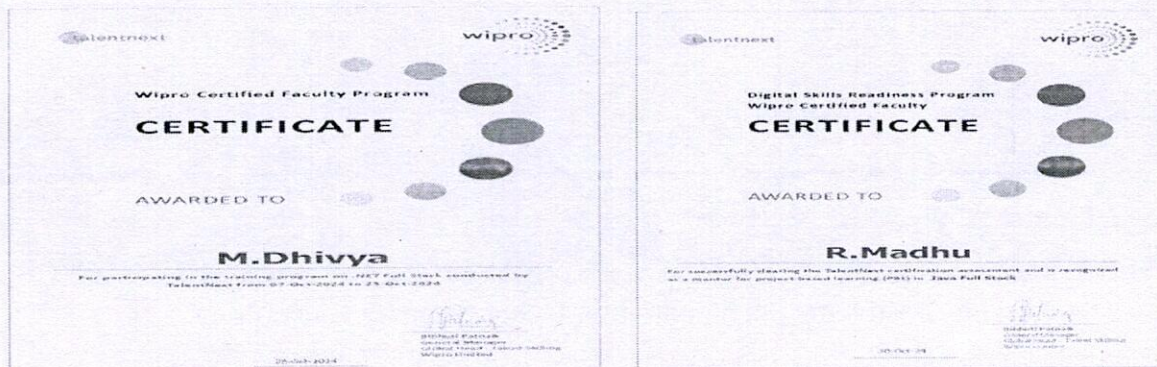
S.No	Subject Code & Title	Date(s)	Title of the Delivery	Resource person name	Industry name
1	GE3754 Human Resource Management	19.10.2024	Industrial Expertise Session on Performance Evaluation and Redressal Methods	Mr.Vignesh Paramasivam	HR professional from Walmart Global Tech
2	CCS366 Software Testing and Automation	19.10.2024	Test automation and Tools	Mr.Siva Kumar	Associate quality analyst, Solaritis LLC, Madurai
3	CCS334 Big Data Analytics	07.11.2024	Big Data Analytics use-cases and Cloudera	Mr.Ramesh Ramaswamy	Founder, MAASR Ltd. UK

INDUSTRY BASED TRAINING

Progress in Wipro Training to students/faculties

Mrs.K.Dhivya, AP/CSE, has been certified as a **.NET Full Stack Wipro Certified Faculty (WCF)** for successfully clearing the TalentNext certification Assessment.

Mrs.R.Madhu, AP/CSE, is certified as a **Wipro Certified Faculty (WCF)** for successfully clearing the **TalentNext certification Assessment** and is recognized as a mentor for Wipros Project Based Learning in Java Full Stack.



Progress in Salesforce Training to students/faculties

To Students:

- 60 students from III year – CSE have registered for the Value added course.
- Value added course on “Salesforce Admin” will be conducted from 30.01.2025 to 07.02.2025
- Industry Experts from Softsquare Solutions will be handling the session on 05.02.2025 & 06.02.2025

INDUSTRIAL GUEST LECTURES

- Department of CSE with the Training and Placement Centre, organized an **Industrial Expertise Session on Performance Evaluation and Redressal Methods** for the IV-year CSE students on **19.10.2024**. This insightful session was led by **Mr.Vignesh Paramasivam**, an esteemed HR professional from Walmart Global Tech.
- An **Industrial Workshop on Workshop on Software Testing and Advanced Automation Tools** for the III-year CSE students on **25.10.2024 and 26.10.2024**.
- Department of CSE, organized a Guest Lecture on **Crafting your future with Ramco systems: Strategies for job placement** for the IV-year CSE 50 students on **17.10.2024**. This insightful session was led by **Mr.Vijaya Aadhithya, Analyst Programmer, Ramco Systems, Chennai**.



Fig.8 Glimpse of the Guest lecture from Ramco Cements

INDUSTRY BASED ONLINE COURSES

Online course certifications - Great Learning

Our department students and faculty members are doing online courses in Infosys Springboard and Great learning platform.

Great learning platform

- Total of 10 courses are completed by students of I year CSE.
- Total of 47 courses are completed by students of II year CSE.
- Total of 9 courses are completed by students of III year CSE.

FACULTY INDUSTRIAL TRAINING

The faculty members of CSE department have visited various industries in the previous semester and learnt new technology stack. The list of faculties visited various industries are shown in the table below.

S.No	Name of the Faculty Member(s)	Name of the Internship/ Training/ Collaboration	Name of the Company & Place	Duration	Outcomes of Internship/ Training/ Collaboration
1.	Dr.K.Vijayalakshmi	Placement opportunities	Pyroferus Technologies, Sandhata Technologies, Chennai	July 2024	Placement drive in the month of Feb, 2025
2.	Dr.K.Vijayalakshmi Dr.R.Venkatesh	New Lab Establishment	Monolith Technologies Private Limited, Chennai,	May, 2024	Industry supported AR/VR Lab setup of worth Rs.18,05,400/-

3.	Mr.K.Vignesh Saravanan	Training in "Data Science domain"	Jupyter brothers data science, Maraneri	13.08.2024 to 16.08.2024	Research papers based projects for students Students project presented and got internships with Stipend Rs.15000/-. Currently 3 students doing.
----	------------------------	-----------------------------------	---	--------------------------	---

The actions taken for the Internships were presented.

- Industrial training for students in the form of internship during winter training has increased in the academic year 2024-2025 (Odd semester) and is continued in the same manner in the next academic semester also.

Impact of Internships/ Industry Trainings

In academic year 2024-2025 - 171 student internships are completed and 42 companies were visited. A comparative analysis of students' participation in internship and in plant training from academic year 2017-2018 to the current academic year was presented as shown in Fig.2 below.

Internship Details



Overall				Academic Year – 24-25			
S.No	Academic Year	No. of Internships	No. of Companies	S.No	Academic Year	No. of Internships	No. of Companies
1	2017-2018	5	2	1	IV year	62	23
2	2018-2019	20	7	2	III year	31	8
3	2019-2020	32	18	3	II year	66	8
4	2020-2021	85	34	4	I year	12	3
5	2021-2022	98	22				
6	2022-2023	204	50				
7	2023-2024	212	53				
8	2024-2025	171	42				

Fig.2 Comparative Analysis

A Comparative analysis of total No. of IPT/ Internships as shown in Fig.3. for the academic year 2024-2025 were presented.

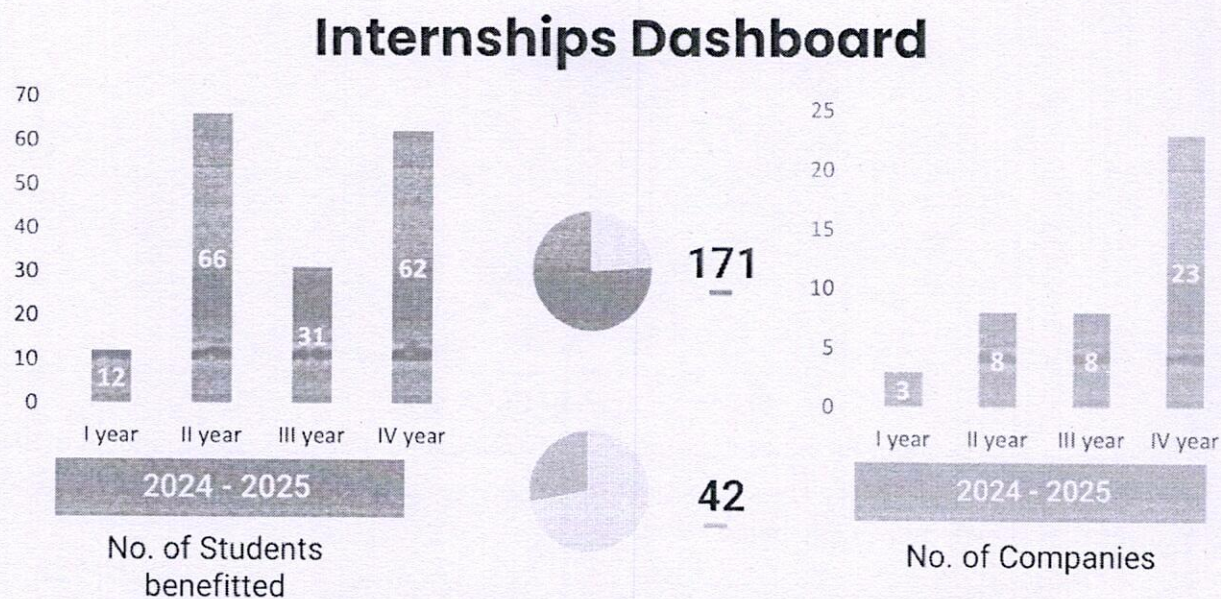


Fig.3 Internship analysis academic year 2024-2025

The graph and comparison for the Internship Analysis of the academic year – 2024 – 2025 (each year wise) is shown in the below figure 4.

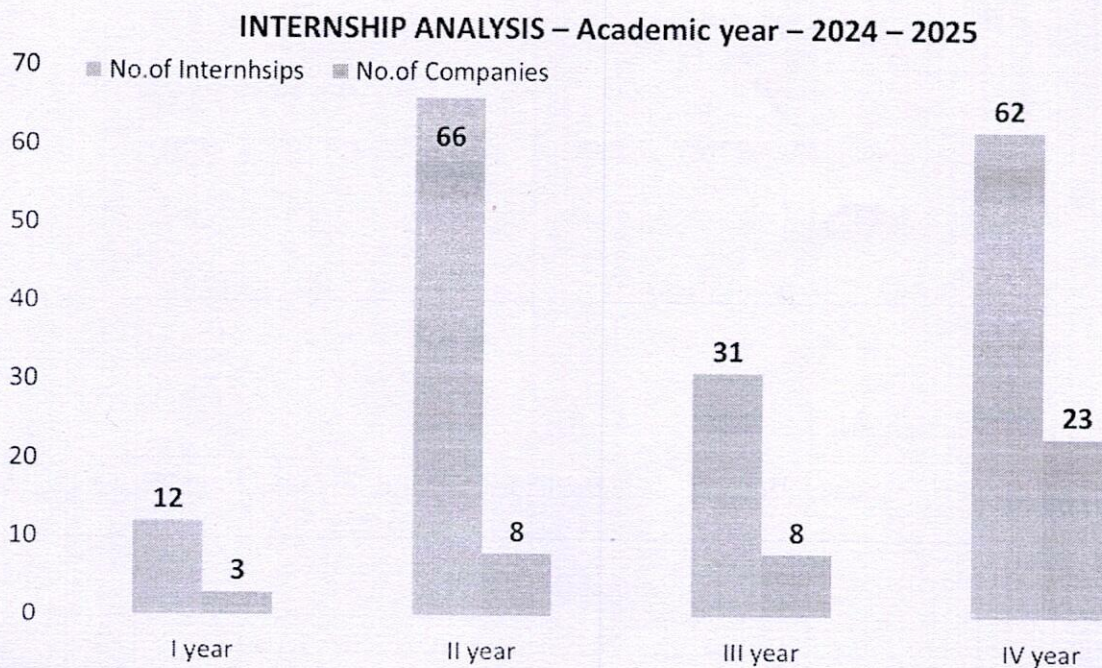


Fig.4 Internship analysis academic year 2024-2025 – year wise

The detailed analysis of the POs and PSOs across various domains is done for each of the PSOs. The analysis chart is presented and as shown in the below Fig.5

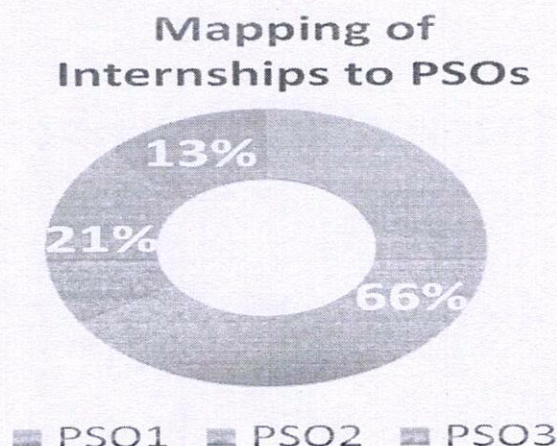


Fig.5. Analysis of the PSOs

The detailed report about the placement followed by internship with stipend completed by the final year students are listed. The comparisons with the previous academic year data are also projected as shown in the table below:

SNO	Company name	No of students	Amount / month
1.	Ramco Systems	9	Rs.18,000
2.	Centizen	6	Rs.10,000
3.	Solartis	1	Rs.10,000
4.	Amphisoft	1	Rs.6,000
Total		17	Rs. 2,38,000/-
Previous Batch 2020-2024		18	Rs. 3,38,950/-
Previous Batch 2019-2023		19	Rs.2,54,000/-
Previous Batch 2018-2022		14	Rs.1,61,500/-

11. Students Participation

4.7.1 Professional Societies/ Bodies, Chapters, Clubs, and Professional Engineering Events Organized

4.7.2 Student's Participations in Professional Events

4.7.3 Publication of Journals, Magazines, Newsletters, etc. in the Department

4.7.4 Student Publications

4.7.1 Professional Societies/Bodies/Chapter/Club & Professional Engineering Event Organized

Consolidated membership count for academic year 2024-2025 Odd

SI. No.	Name of the Professional Society / Association	Number of Student Members	Number of Faculty Members
1.	RIT - CLUSTRA	498	21+1 (Adjunct Faculty)
2.	CSI	143	07
3.	IE(I) CSE	154	10
4.	ACM	26	05
5.	Geeks for Geeks	8	01
6.	IEEE	-	02
7.	ISTE	310	10

4.7.1.2 List of Events/Programs Organized

4.7.1.2 Summary of Events Organized & Students Participations:

SI. No	Professional Societies and Technical Association (CSI/ IE(I)-CSE & RIT Clustra)	No. of Events Organized	No. of Students Participations
1.	RIT Clustra Association	9	680
2.	Computer Society of India (CSI) Students' Chapter	11	677
3.	Institution of Engineers (India)- CSE Students' Chapter	17	571
4.	ACM	3	70
5.	International Conference	1	82
6.	Value Added Courses & Others	2	150
7.	FDP/STTP	2	60
8.	ISTE	2	60
	Total	47	2340

Academic year 2023-2024

International Conference 2023-2024:

Ramco Institute of Technology & Ball state University Jointly Organize the event of International Conference on Artificial Intelligence, Cybersecurity, and Game Design on February 23-25 2024.

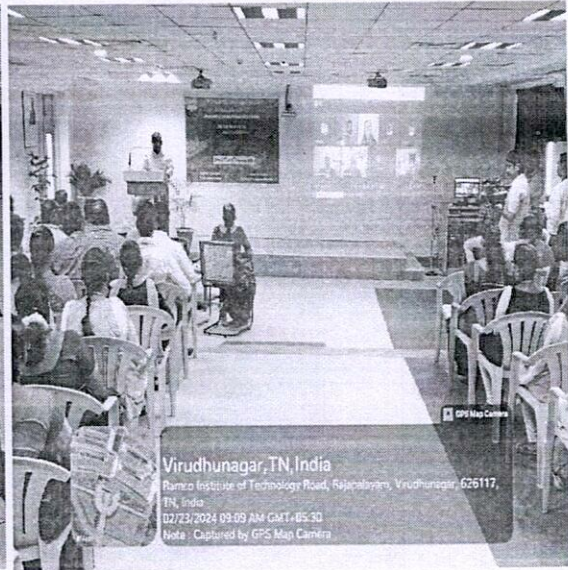
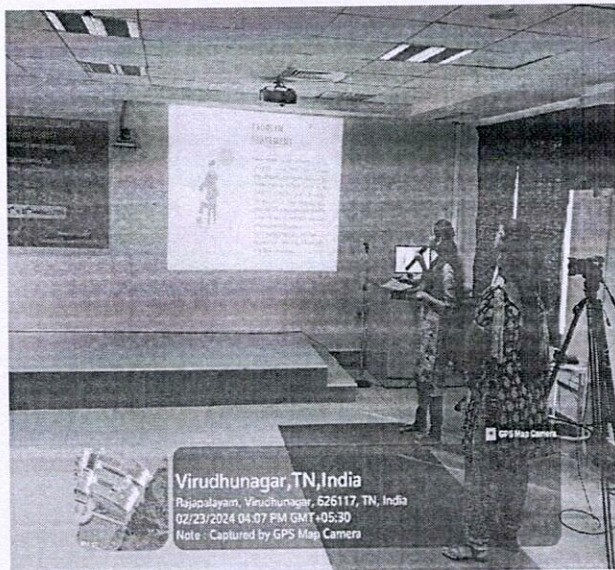
Number of papers received-138

Number of papers Published-57

Students & Researchers from India & other countries -635

Invited Speakers:

1. Dr. Fu-Shing Sun, Ball State University, USA
2. Dr. Jennifer Coy, Ball State University, USA
3. Dr. Paul Gestwicki, Ball State University, USA
4. Dr. Huseyin Ergin, Ball State University, USA
5. Dr. Lan Lin, Ball State University, USA
6. Dr. C. Xavier, Christ University, Bangalore
7. Dr. Hemant Rathore, BITS-Pilani, Goa.
8. Dr. K. Chandrasekaran, NIT Surathkal



Academic year 2024-2025

Sl. No	Professional Societies and Technical Association (CSI/ IE(I)-CSE & RIT Clustra)	No. of Events Organized	No. of Students Participations
1.	RIT Clustra Association	5	121
2.	Computer Society of India (CSI) Students' Chapter	7	301
3.	Institution of Engineers (India)- CSE Students' Chapter	14	256
4.	ACM	9	554
5.	Geeks for Geeks	3	466
6.	Value Added Courses & Others	5	150
Total		43	1848

RIT Clustra Association:

Sl. No	Date	Event Name	Guest / Internal / Winners	No. of Students Participated	POs, PSOs Mapping
1.	12.08.2024	Technical Connection	Winner Navina M IV CSE Mariammal IV CSE Runner Sivadharshini M IV CSE Rubalkshmi A, IV CSE Chriswin Paryson J IV CSE Sivaganesh K IV CSE	25	PO1, PO8, PO9, PO10
2.	31.08.2024	Choose Your Question	Winner Dheetchana K and Subashree M ,III CSE B Runner Harini M and Tharana,III CSE A	20	PO1, PO2, PO8, PO9, PO10
3.	09.09.2024	Code Clinic	Winner Akshay RanjithaDevi,II CSE B Sivadharshini M II	12	PO1, PO3, PO8, PO9,

			CSE B Runner Asmitha V ,Sree vathini panimalar N Rasiga S II CSE B		PO10,P O12
4.	21.09.2024	Poster Design	Winner Sivarajini G, III CSE A Runner Krishna Veni M, III CSE B	24	PO1, PO2, PO8, PO9, PO10
5.	21.10.2024	Programing Quiz	Winner Dheetchana K and Subashree M ,III CSE B Runner Harini M and Tharana,III CSE A	40	PO1, PO2, PO3, PO8, PO9, PO10,P O12

RAMCO INSTITUTE OF TECHNOLOGY
Approved by AICTE, Fully Accredited & Affiliated to Anna University
ISO 9001:2015 Certified Institution
MBA Accredited UIC Programs: CSE, ECE, EEE and MECH

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
IN ASSOCIATION WITH
RIT CLUSTRA

CHOOSE YOUR QUESTIONS

Rules:

- Each team contains two members.
- Each team should choose one topic from the given set of topics
- Time limit for each question
- Winners & Runners will be awarded
- Participation certificate will be provided to all participants

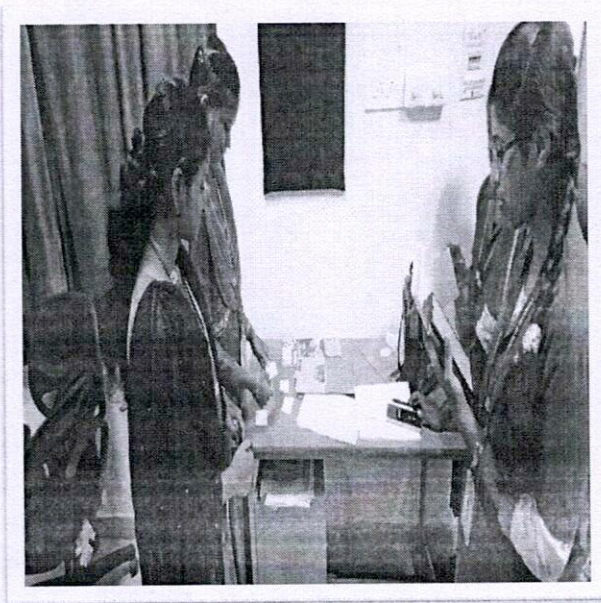
DATE: 31.08.2024
TIME: 12:20 - 01:05 PM
VENUE: OPEN SOURCE LAB

PARTICIPANTS:
III rd YEAR CSE STUDENTS

STUDENT IN-CHARGE: Krishna Veni M(III CSE), Karthika B(III CSE), Vijayalakshmi T(III CSE)
FACULTY IN-CHARGE: A.Sofia Thanga Mary, AP/CSE
CONVENER: Dr. K.Vijayalakshmi, PROFESSOR HEAD/CSI

PATRON: Dr. S. Rajakumaragaran, VICE-PRINCIPAL
CHIEF PATRON: Dr. L. Ganesan, PRINCIPAL

ramco institute of technology | rit@jitm.ac.in | rit@jitpalayam | 08946 229401



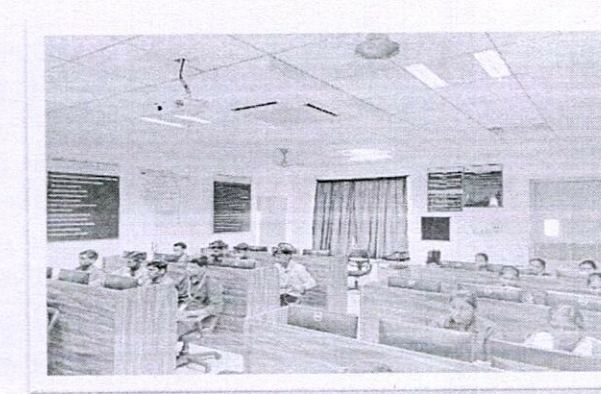
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
IN ASSOCIATION WITH
RIT CLUSTRA

POSTER DESIGN

PARTICIPANTS
III CSE STUDENTS

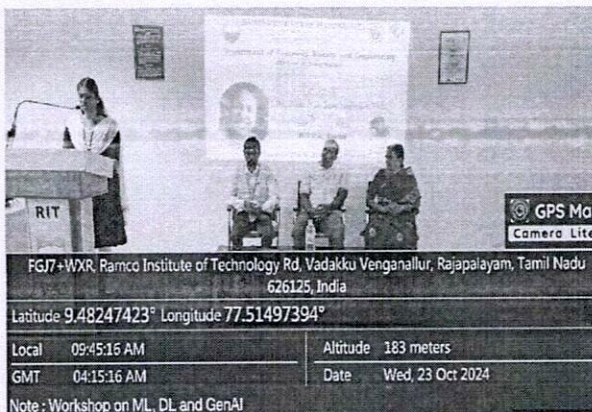
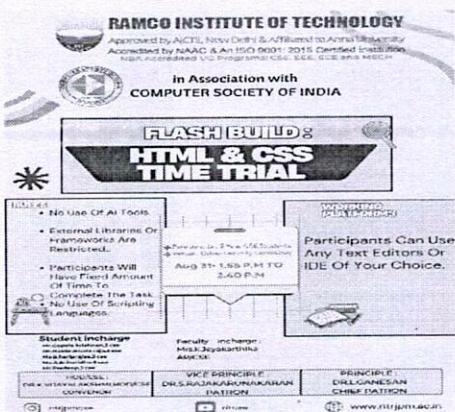
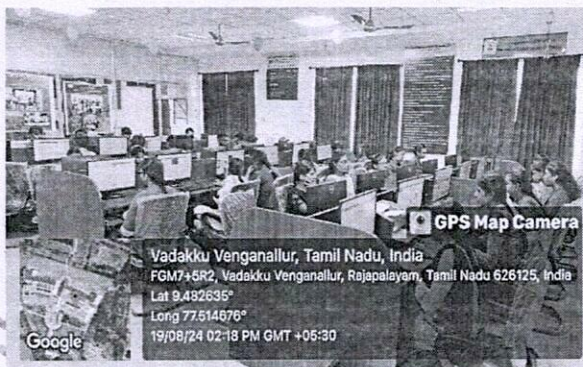
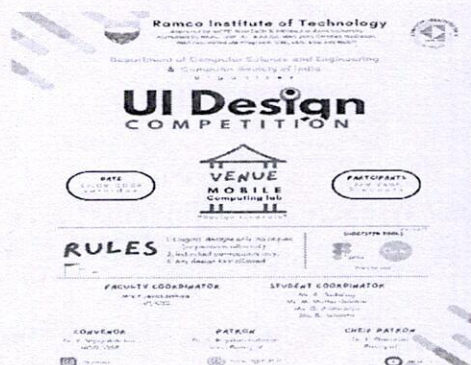
DATE: 21.09.2024
TIME: 01:50 PM TO 02:40 PM
VENUE: MOBILE COMPUTING LAB

Students Coordinator: Asmitha K, Sreevathani
Faculty In-charge: Sofia Thanga Mary, AP/CSE
Convener: Dr. K. Vijayalakshmi, Professor Head/CSI
Chief Patron: Dr. L. Ganesan, Principal



RIT- CSI – Student Chapter

Sl.No	Date	Event Name	Guest / Internal / Winners	No. of Students Participated	POs, PSOs Mapping
1.	19.08.2024	UI Design Contest	Winner Mr.R.Saravan, III CSE B Runner Mr.R.Subramani Raja, III CSE B	34	PO2, PO3, PO5, PO6, PO9, PO10, PO12
2	19.08.2024	Act and Execute	Winner K.sathyapriya,M.Pavithra,& A.Shenbagapriya II CSE Runner R.Sri Prishiga, M.Aruna Devi M.Muthumari II CSE	42	PO2, PO3, PO5, PO6, PO9, PO10
3.	31.08.2024	Flash Build:Html& CSS Time Trial	Winner Mr.S.Madhujith, III CSE B Runner Mr.P.Sathasin, III CSE A	20	PO2, PO3, PO5, PO6,PO9
4.	09.09.2024	Code Quest: A Cipher Challenge"	Winner Ms.Abinayashree S V, III CSE A Ms.Ramalakshmi K, III CSE A Runner Ms.C Shakethyaa, III CSE B Ms.Nivedhaponlakshmi A, III CSE B	30	PO2, PO3, PO9, PO10
5.	23.09.2024	Buzzer Battle	Winner Mr.Lokesh Kumaran Mr.Muneeswaran,Mr.Diliban II CSE	41	PO2, PO3, PO6, PO9, PO10
6.	05.10.2024	Guest Lecture on Java API	Mr.N.Dhiraj Technical Member staff ZOHO	101	PO2, PO3, PO9, PO10
7.	14.10.2024	BugBuster	Winner K.Sathyapriya,M.Pavithra,& A.Shenbagapriya II CSE Runner R.Sri Prishiga, M.Aruna Devi M.Muthumari II CSE	33	PO2, PO3, PO6, PO9, PO10



RIT- IE(I) CSE – Student Chapter

Sl. No	Date	Event Name	Guest / Internal / Winners	No. of Students Participated	POs, PSOs Mapping
1.	14.6.2024	Aptitude Quiz	Winner Mr. S. Jeyaseelan , I CSE A Runner Mr. R. Janaramji, I CSE A	15	PO1, PO2, PO8, PO9, PO10, PO12
2	20.06.2024	Grouped Debate	Winner Ms. P. Swathiga II CSE A Mr. N. S. Kathirvel I CSE B Runner Mr. P. Sanjay, II CSE A Mr. S. Priyadharsan, IICSE A Mr. S. Srinivasa Balan, II CSE A Ms. P. Pavitra Sree, II CSE A	12	PO1, PO2, PO8, PO9, PO10, PO12

3.	12.08.2024	HintHunt	Winner Ms. M. Muthumari, and Ms. M. Durgadevi Mr. N. S. Kathirvel Runner Mr. R. Velmurugan, and Mr. R. Anish Kumar,	39	PO1, PO2, PO8,PO9, PO10, PO12
4.	17.8.2024	Aptitude Test	Winner Mr.R.Ramkumar , III CSE B Runner Ms.M.Poojasri, III CSE A Ms. P.Harini, III CSE A	36	PO1, PO2, PO8,PO9, PO10, PO12
5.	22.08.2024	Campus to corporate Guest lecture	Ms.D.Dhivyadharshini, HR Excetive,Introsoft	45	PO1, PO2, PO3,PO4, PO8.PO9,PO 10, PO12
6.	19.08.2024	BIOSCOPE	Winner Ms. M. Aruna Devi, Ms. M. Muthumari, and Ms. M. Durgadevi Runner Mr. N. S. Kathirvel, Mr. R. Velmurugan, and Mr. R. Anish Kumar,	39	PO1, PO2, PO8,PO9, PO10, PO12
7.	30.08.2024	Technoconnect	Visit Ramco Cements RR Nagar, Viruthunagar	123	PO1, PO2, PO3,PO4, PO8.PO9,PO 10, PO12
8.	31.08.2024	Paper Presentation	Winner Ms. B. Kavya Srinidhi, III CSE B Ms. B. Hemalatha, III CSE B Runner Ms. G. Sivarajanani ,Ms. S. Narmadha, Ms. P. Swathiga Ms. P. Pavitrasree,Ms. B. Siva Sundari II CSE A	12	PO1, PO2, PO3,PO4, PO6,PO8.PO 9,PO10, PO12
9.	09.09.2024	Film Show	Winner Ms. M. Aruna Devi and Ms. M. Muthu Mari. II CSE A Runner Mr. M. Mohanganesh and Mr. C. Harikrishnan II CSE B	16	PO1, PO2, PO3,PO4,PO 6,PO8,PO9, PO10, PO12

10.	21.09.2024	DebateDen	Winner Ms. S. Malini , III CSE A Runner Ms. S.V.Abinaya Shree,III CSEA Mr. S. Srinivasabalan, III CSE A	36	PO1, PO2, PO8,PO9, PO10, PO12
11.	25.09.2024	Tech Wizard Quiz	Winner Nishandh S,Jayapraksh B,S.Natarajansri I CSE Runner P.Sharabeswaran I CSE	57	PO1, PO2, PO8,PO9, PO10, PO12
12.	14.10.2024	Technical Mock Interview	Winner Mr. M. Mohanganesh II CSE Runner Ms. A. Sivapriya and Ms. S.Nithya Sri II CSE	24	PO1, PO2, PO8,PO9, PO10, PO12
13.	19.10.2024	Design Excellence Poster Design	Winner R. Saravanan, III CSE B Runner Ms. K. Dheetchana, III CSE BMs. R. Nithya, III CSE B	20	PO1, PO2, PO3,PO5, PO9, PO12
14.	19.10.2024	Testing Automation and Tools	Resource Person Mr.P.Sivakumar Associate Quality Analyst, Solartis LLC, Madurai	39	PO1, PO2, PO3,PO9, PO10, PO12
15.	21.10.2024	Skill Sharp Challenge	Winners, Ms. P. K. Asmitha, Runners, Mr. S.Jeyaseelan	36	PO1, PO2, PO3,PO9, PO10, PO12
16.	21.10.2024	Insight paper	Winners Mr.M.Sivadharshan and Mr.S.Athi Venkatesh Runners Ms.V.Jaya Shri and Ms.T.Rakshana	29	PO1, PO2, PO3,PO9, PO10, PO12

RAMCO INSTITUTE OF TECHNOLOGY
Approved by AICTE, New Delhi & Affiliated to Anna University
An ISO 9001:2015 Certified Institution

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
IN WITH ASSOCIATION INSTITUTION OF ENGINEERS (INDIA)**

DEBATE DEN

Time: 1:55 PM - 2:40 PM
Venue: C2R05
Date: 21-09-2024

PARTICIPATIONS:
III YEAR CSE

STUDENT IN-CHARGE
Ms. M. Poojari II CSE
Ms. A. Anshakrishi III CSE
Ms. J. Sharmini III CSE
Ms. M. Harini III CSE
Mr. A. S. Aravind III CSE

CONVENOR
Dr. K. Vijayalakshmi,
Professor Head/CSE

FACULTY IN-CHARGE
Mrs. S. Vijaya Amala Devi,
AP/CSE

CHIEF PATRON
Dr. L. Ganesan
Principal

PATRON
Dr. S. Rajakumarathan
Vice-Principal

Rules:
1. The event consists of topics based on technical/non-technical topics and non-technical topics.
2. The team can be divided on the spot.
3. The marks are given based on valid points.
4. Communication skills and the starter team has more weighting.
5. Winners and runner-up will be awarded.
6. All participants will receive a participation certificate.

ritrajapalayam ramco_rajapalayam 04563 233400

RAMCO INSTITUTE OF TECHNOLOGY
Approved by AICTE, New Delhi & Affiliated to Anna University
An ISO 9001:2015 Certified Institution

Department of Computer Science and Engineering
In Association with
Institution of Engineers (India) & IIT Alumni Association jointly organizes

Guest Lecture on
TEST AUTOMATION AND TOOLS

P.SIVA KUMAR
(Batch 2020 - 2024)
Associate Quality Analyst,
Sciartis LLC, Madurai

Topics to be covered
Automated Software Testing,
Automatic Testing of web Applications,
Selenium, Introducing Web Driver and Web Elements,
Locating Web Elements,
Actions on Web Elements,
Different Web Drivers,
Understanding Web Driver Events,
Testing Understanding Testing.xml,
Adding Classes,
Mocking,
Methods to Test,
Test Reports

Oct 18, 2024, 10:00 AM Cloud Computing Laboratory

ritrajapalayam ramco_rajapalayam 04563 233400

RIT- ACM CSE:

Sl. No	Date	Event Name	Guest / Internal / Winners	No. of Students Participated	POs, PSOs Mapping
1.	19.08.2024	QUIZMOSIS	Winner Krishnapriya R and Murugeshwari R,II CSE Runner Dhivyabharathi G Fadelullah M,II CSE	32	PO1,PO2, PO3, PO9,PO1 0,PO12
2.	19.08.2024	Debug Duel	Winner Girisankar G ,III CSE B Runner Hariprajaa B,III CSE B Tharani M,III CSE A	22	PO1,PO2, PO3, PO9,PO1 0,PO12
3.	03.09.2024	Awareness Workshop on High- Performance Computing (HPC)	Resource person Dr. S. Priyadharsini, CDAC-HPC Master Trainer Mepco Schlenk Engineering College, Sivakasi,	112	PO1,PO2, PO3,PO6, PO9,PO1 0,PO12

4.	21.09.2024	Hack Shield CTF	Winner, Vijayalakshmi T, III CSE B Runner, Thirumoorthi R, III CSE A Sivabalan S,III CSE A	32	PO1,PO2, PO3,PO6, PO9,PO1 0,PO12
5.	23.09.2024	Cryptography Puzzle Hunt	Winner Asmitha P K and Puspakalai S,II CSE Runner Jane Gracy D and Afridha Fathima Syed Ibrahim,II CSE Sakthi Sundari G and Shrija A,II CSE	30	PO1,PO2, PO3,PO6, PO9,PO1 0,PO12
6.	07.10.2024	Tech Debate	Mr.Mohanganesh M, Mr. Sarveshwar P. II CSE	17	PO1,PO2, PO3,PO6, PO9,PO1 0,PO12
7.	14.10.2024	Query Cracking	Winner Anu Subiksha B G, Deepalakshmi M, and Sudharsanam P,II CSE Runner Rishikesh R and Sarveshwar P Fadeullah M, Adarsh S, and Surendran P,II CSE	21	PO1,PO2, PO8,PO9, PO10,PO 12
8.	18.10.2024	Inaugural Function- guest lecture on “Maximizing Your Career Potential: The Role of IEEE, CS, ACM, and Related Societies”	Resource person Mr. H R Mohan, IEEE Ambassador, Chair- Events & IMM, Past Chair of IEEE CS, ACM Chennai, and Former AVP Systems at The Hindu, Chennai,	150	PO1,PO2, PO3,PO6, PO9,PO1 0,PO12
9.	11.11.2024	Recent Trends in Network Technology & Career Guidance in the Field of Networking	Mr.S.Pandeeswaran, Enterprises Business Unit, Sub Divisional Engineer, BSNL, Virudhunagar	116	PO1,PO2, PO3,PO6, PO9,PO1 0,PO12



RAMCO INSTITUTE OF TECHNOLOGY
Approved by AICTE, New Delhi and affiliated to Anna University, Chennai
MAAC Accredited with 'A' Grade & A++ (ISO 9001:2015) Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Department of Computer Science and Engineering

CSE ACM STUDENT CHAPTER ORGANIZES

Awareness Workshop on
HIGH PERFORMANCE COMPUTING
UNDER AICTE - SANKALP
CSE SEMINAR HALL
03 SEP, 2024 10.00 AM

REACH US
RITRajapalayam RITCSE
ritrjpmcse www.ritrjpm.ac.in

DR. S. PRIYADHARINI
COUG - CERTIFIED MASTER TRAINER
Associate Professor / CSE
Mepco Schlenk Engineering College, Sivakasi

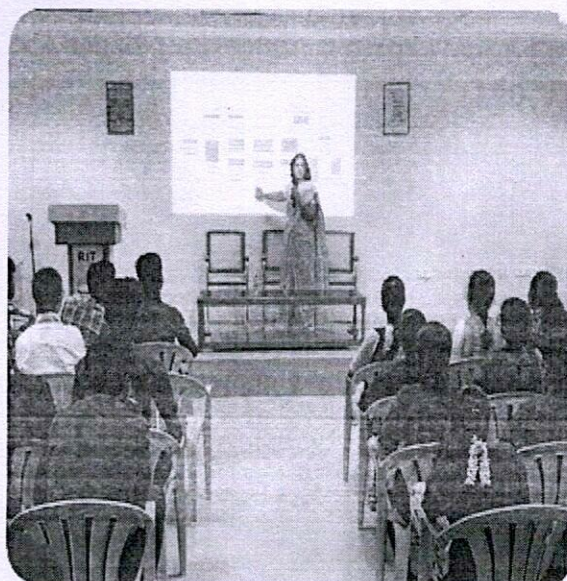
CHIEF PATRON
Dr. L. Ganesan
Principal

PATRON
Dr. S. Rajakumarabharan
Vice Principal

CO-ORDINATOR
Dr. R. Veekatesh
ASPA/SE

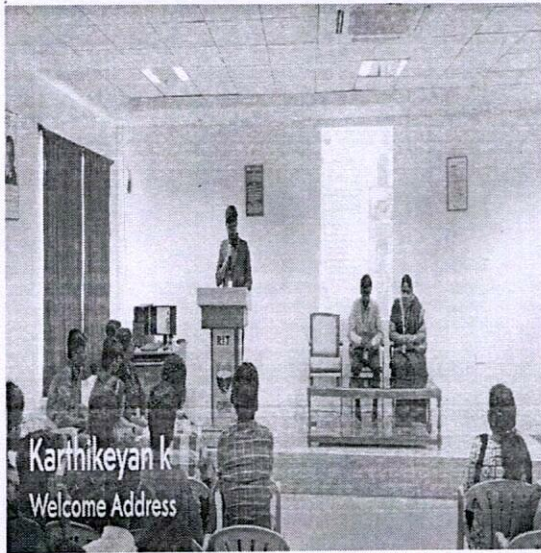
CONVENER
Dr. K. Vigneshkumar
HOD/ESE

STUDENT CO-ORDINATORS
Mr. Mahalingesh M
Mr. Subthi Sundari G,
Ms. Dhanyakshrethi G, II CSE



Geeks for Geeks:

Sl.No	Date	Guest Lecture/Workshop/Short Term Training/VAC/ Others	Guest / Internal / Winners	No. of Students Participated
1.	29.10.2024	CodeYukti	Winners Karthikeyan K.,Janarthanavel S-III CSE Runner Banu Mathavan V- Sivamaharaj S, III IT	112
2.	11.11.2024	Watson Challenge	Winner Pradeepa K I,Poojasri M III CSE Runner Vignesh R ,Jeyasuriya K III CSE	114
3.	20.11.2024	Triskill Challenge	Winner Vaishali M I ECE, Kiruthoga I CSE Runner AnishKumar R,Senthatti Kalai P I CSE	200



RAMCO INSTITUTE OF TECHNOLOGY

CODE-YUKTI

GeeksforGeeks StudentChapter

ROUNDS:

Round 1:
A preliminary individual round with programming questions on the Quizizz platform.

Round 2:
A problem-solving challenge where each team selects one member to solve real-world, point-based problems within a set time.

GIFTS:
Exciting swags and prizes

Venue :
CSE Seminar Hall
October 29-2024

Time:
11 AM

Event coordinators:
Narayanamoorthy S
3rd year CSE
Sathasin P
3rd year CSE

Value Added Courses:

Sl.No	Date	Event Name	Guest / Internal / Winners	No. of Students Participated
1.	19.03.2024 to 22.03.2024 09.12.2024	Microsoft Azure AI	Mr.AshuDev & P.Abitha, Certified Microsoft Trainer ICT Academy	71
2.	19.03.2024 to 21.03.2024 10.12.2024 & 11.12.2024	Microsoft Power BI & Data Analytics	Dr.S.Thayammal & P.Abitha Certified Microsoft Trainer ICT Academy	52
3.	12.12.2024 & 13.12.2024	Flutter	IV CSE STUDENTS	27

4.74 Student publications in Journal & conference:

Academic Year 2023-2024:

Sl. No.	Student Participation Conference & Journal	Count
1.	Journal Publication	7
2.	International Level Conference	25
	Total	32

S.No	Year & Sem	Subcode	Subject Name	Number of Mini Projects	No of Students
1.	IV/VII	Ge3754	Human Resource Management	126	63
2.	III/V	Cs3591	Computer Networks Laboratory	40	116

SI. No.	Name of the Student	Sem /Year	Name of the publisher	Name of the Journal/conference
1.	G.Sakthipriya, Hariprajaa B, Sriharidha A, Kavya Srinidhi	V Sem,/III CSE	NCEIEECT 2024	"National Conference on "Emerging Innovations in Electrical, Electronics and Computing Technologies"
2.	G.Sakthipriya, K.Vignesh Saravana , Karthika A, Kavya Srinidhi B, Hemalatha B,	V Sem/ III CSE	IEEE	International Conference on Sustainable Communication Networks and Application

2.4 Seminars and Mini/Micro Projects

Academic Year 2024-2025

S.No	Year & Sem	Subcode	Subject Name	Number of Mini Projects	No of Students
1.	IV/VII	CCS346	Exploratory Data Science	9	28
2.	III/V	CCS334	Big Data Analytics	8	26
3.	III/V	CCS355	Neural Network & Deep Learning	5	14
4.	III/V	CCS370	Ui/Ux Design	44	116
5.	III/V	CCS375	Web Technology	32	116
6.	III/V	SB8026	Uipath-Robotic Process Automation Foundation Course	20	116
7.	II/III	CS3361	Data Science Laboratory	27	83
8.	I/I	GE3171	Problem Solving & Python Programming Lab	50	126

Suggestions given by the Panel Members: Nil

During the period from June 2023 to December 2024, the student participation were presented. The highlights included:

All Events:

- During the academic year 2024-2025, students actively participated in a total of 52 events across various categories. Out of these, 6 students attended workshops, 10 students took part in hackathons and codeathons, 3 students presented papers, 7 students participated in quizzes, and 26 students engaged in other types of events. These events were held at both state and national levels, with 29 events at the state level and 23 events at the national level.
- In the previous academic year, 2023-2024, students participated in a total of 75 events. Among these, 19 students attended workshops, 12 students took part in hackathons and codeathons, 6 students presented papers, 7 students participated in quizzes, and 31 students were involved in other events. Participation in these events was spread across various levels, with 52 events at the state level, 22 events at the national level, and 1 event at the international level.

Hackathon Achievements: A detailed presentation of the hackathon events participated and won by the students was presented. These events included prestigious competitions organized by Cyber Security, BlockHack, Codemathon 2024, Hack2Hire, Hack Tamizhagam, Flipkart, Smart India Hackathon 2023, DeepSphere.AI, Chandigarh Police, Infosys, IITM PALS, Naan Mudhalvan Anna University – TNCPL, and Yukthi Capture the Flag (CTF). The achievements in these hackathons underscored the students' technical prowess and innovative thinking.

Hackathon

- Bounties on HackerOne – **Rs. 3,74,582**
 - Block Hack 2024 – **Secure 6th place in 32 hours**
 - **III Position** with an impressive **score 20/25** in Data Dash Unleashing Insight Hackathon
 - Smart India Hackathon 2023 - **Rs. 50,000**
 - II & III prize in RIT Internal Hackathon by DeepSphere.AI- **Rs.3000 & Rs.2000**
 - Best First Year Team (Bold Bytes) at CodHer '24-**Rs.1500**
 - **Qualified Round 2** in hackathon organized by Chandigarh police and Infosys
 - **FINALIST in the PeCan+ Capture the Flag(CTF) Cyber Security Hackathon** jointly organized by IITM PALS and Edith Cowan University, Australia.
 - **FINALIST of Hackathon** organized by Naan Mudhalvan Anna University - TNCPL in collaboration with GUVI Geek Network Private Limited
 - **Secured 31 out of 2000 Teams** organized by Yukthi Capture the Flag(CTF) Cyber Security Hackathon
- **Participation at Various Levels:** Notable student participation was highlighted across International, National, and State levels, demonstrating the diverse talent and competitive spirit within the student body.

Table :I Describe the level of participation

Level	Organizer/Events
International level	<ul style="list-style-type: none"> • International Conferences
National level	<ul style="list-style-type: none"> • National Creativity Aptitude Test (NCAT 2024) • Naukri-National Level Aptitude test • Indian Society for Technical Education • IITM-K building, Technopark • Indian Institute of Technology, Mandi • The Mathematical Society, NIT Kurukshetra • Flag Event , IIT Patna • National Academy of Agricultural Research Management, Hyderabad • VNR Cyber WarZone 2024 • National Institute of Technology, Tiruchirappalli • National Level Technical Symposium
State level	<ul style="list-style-type: none"> • IIIT Kottayam • GUVI, Naan Mudhalvan and Anna University • Chennai Institute of Technology • Thiagarajar College of Engineering • National Engineering College • Kalasalingam Academy of Research and Education • KPR Institute of Engineering and Technology, Coimbatore • Centre for Entrepreneurship Development, Anna University • P.S.R.Engineering College, • KGiSL Institute of Technology, Chennai • PSG College of Technology, Coimbatore • Sathya Bama Insititute of Science and Technology, Chennai • SSN College, Kalavakkam • S.Veerassamy Chettiar College of Engineering and Technology • Rajalakshmi Institute of Technology, Chennai • St.Joseph's College of Engineering, Chennai

- The presentation also showcased the extensive involvement of students in various events. These categories included: workshops, presentation, quiz, technical events, other events.

Table II: Describe the different type of events

Type of Event	Names of events
Workshop	<ul style="list-style-type: none"> • Full stack web Development • Generative AI • Networking with Linux • Google Cloud

	<ul style="list-style-type: none"> • Graphic Design & UI/UX • Business model canvas • One Day Business Model Canvas • Project Powered JavaScript Unveiling the Depths from Basics to Mastery, Inspire Softest solutions • RUSA 2.0 Startup cafe boot camp, Centre for entrepreneurship development
Quiz	<ul style="list-style-type: none"> • Secure social Media Practices • Java Programming • Logical thinking and math puzzle • Domain based Technical • Python Programming Quiz • Chandrayan-3 • Swaraj • Online Math Quiz Competition
Paper Presentation	<ul style="list-style-type: none"> • Emerging Trends in Engineering and Technology • Prediction of Energy consumption in Hybrid and Electric Vehicles • Ink & Insight • National Level Techno Cultural Fest • Brain Finger Printing
Technical Events	<ul style="list-style-type: none"> • Designers on board(UI/UX) • Tech Quest • Web Wave • Code Test • Code Debugging • Project Contest • Paper Warz • Cyber Security Competition • Poster presentation • Load The Lyrics • Technical quest • Flash Mind • World of Weebs • Stress Interview • Networking with Linux Workshop
Other Events	<ul style="list-style-type: none"> • Connections • Frame Spot

1) Details about students Accomplishments

Prize Winners

- Dheetchana and Kavya, II year CSE **Won first prize in the "Student Convention 2024 Tier-2 Competition" - Technical Paper presentation** event titled "Hybrid and Electric Vehicles" held at Mepco Schlenk Engineering college, under the SAEINDIA southern section (State level)
- Sriharidha A Hariprajaa B II CSE **Won Second Prize in the "Brain Finger Printing, Spring Fest 2K23"- Paper Presentation** National level Technical Symposium, KSR Institute of Technology, Thiruchengode

- Thilothamai K III CSE , Karthick Sri Ram A, Sivasundari B **Qualified for round 2** in All India Rank in Naukri-National level Aptitude test, NCAT
- Sathyapriya K II CSE Won **Certificate of Excellence in Best Paper** in Ampheroz-2K24-**Paper Presentation**, AAA College of Engineering, Sivakasi.
- Harini P , Nandhini S, Suryaprabha J **Secured Best First Year Team Award** in CODHER '24, ACM-CEG, Anna University
- Pavitra K,Saravana Jothi G **Won Second Prize** in Code with Comali, National Level Symposium, KGiSL Institute of Technology, Chennai
- Shanmughapriya G K Murugeswari R **Won Second Prize in Guess Neok**, P S R Engineering College, Sivakasi

Report on Publication of Journals, Magazines, Newsletter in the Department

- The **Clustrazine Magazine**, Volume 6, Issue 1, was edited by **Mr. Muthu Shankar**. Students from various semesters actively contributed to this, including 3 students from the seventh semester, 18 students from the third semester, and 17 students from the first semester. This edition, **Volume 6, Issue 1**, reflects the creativity and efforts of all the participating students.
- The **Clustrazine Magazine**, Volume 6, Issue 2, was edited by **Sri Prishigaa R,Deepalakshmi M,Sathya Priya K,Arunadevi M,Pavithra M,Durgadevi M,Rajeswari C ,Sakthi Sundari S, Shenbagapriya A** .Students from various semesters actively contributed to this, including 3 students from the Eighth semester, 4 students from the Sixth semester, and 12 students from the Second semester. This edition, **Volume 6, Issue 2**, reflects the creativity and efforts of all the participating students.
- The **Clustrazine -Newsletter**, Volume 6, Issue 1, was edited by **Muthu Shankar, Karthick, ArunKumar,Pradeep,Sivaranjini,Swathiga,Pavithrasree,Bonshisha,Subramani Raja,Nesamanikandan**.Students from various semesters actively contributed to this. This edition, **Volume 6, Issue 1**, reflects the creativity and efforts of all the participating students.
- The **Clustrazine -Newsletter**, Volume 6, Issue 2, was edited by **Muthu Shankar, Karthick, ArunKumar,Pradeep,Sivaranjini,Swathiga,Pavithrasree,Bonshisha,Subramani Raja,Nesamanikandan**. Students from various semesters actively contributed to this. This edition, **Volume 6, Issue 2**, reflects the creativity and efforts of all the participating students.
- The **Clustrazine Magazine**, Volume 7, Issue 1, was edited by **Sandhib,Ramakrishnan A,Sri Pon Mathu,Swasthi K,Jumana Jaseela J,Gulshan M,Nithya Sri S,Asma M,Karthika A,Janaramji R,Prince S,Siva K** . Students from various semesters actively contributed to this, including 2 students from the seventh semester, 1 student from the fifth semester 5 students from the third semester, and 27 students from the first semester. This edition, **Volume 7, Issue 1**, reflects the creativity and efforts of all the participating students.
- The **Clustrazine -Newsletter**, Volume 7, Issue 1, was edited by **Muthu Shankar, Karthick, ArunKumar,Pradeep,Sivaranjini,Swathiga,Pavithrasree,Bonshisha,Subramani Raja,Nesamanikandan**.Students from various semesters actively contributed to this. This edition, **Volume 7, Issue 1**, reflects the creativity and efforts of all the participating students

Suggestions Given by Panel Members

During the meeting, the panel members expressed their appreciation for the students' exemplary performance in hackathons and various Events.

12. Project

2.2 - Quality of Student Capstone Project

3.5 - Evaluation of Projects

Presenter: Dr.R.Venkatesh, ASP/CSE and Ms.G.Sakthi Priya, AP/CSE

Final year project outcomes of the academic year 2023-2024 were presented

Total number of projects is 18. 16 project works were presented in International conference. 2 projects are planned to be patented. Out of 18 projects, 1 project is an industry project and 3 are product design projects. The distribution of project outcomes is shown in figure 1

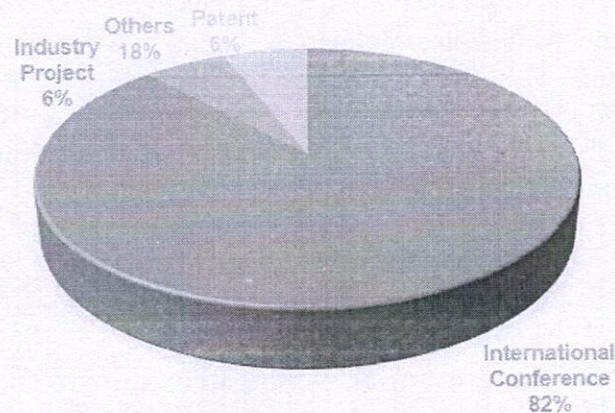


Figure 1: Distribution of Project Outcomes

The mapping of project and program specific outcomes were discussed. Majority of the projects related to AI/ML with 44% related to PSO3. Projects related to cloud computing, cyber security and IoT are 22% which are related to PSO2. Application development related products are 11% which maps to PSO1

Combination of projects which covers both PSO1 and PSO3 are 3 projects (17%) and PSO2 and PSO3 are 1 project (6%). The distribution of the Project and PSO mapping is shown in the following figure 2

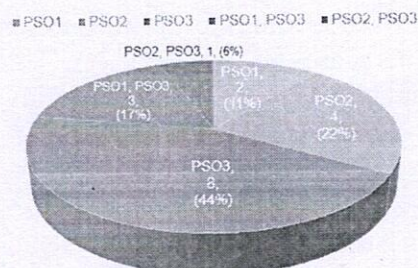


Figure 2: Project- PSO Mapping

3 Product designs of final year projects are Automated sensor model for poultry litter gas emissions management, Precision agriculture using IoT, LPG gas level and leakage detector.

International conference details of the final year projects are listed in the table 1

Table 1: International conference details

S.No	Name(s) of the student(s)	Name of the Supervisor	Title of the Project	Area of the Project	Outcome
1.	Aananda Ganesan R Shakthee Saravana M Jegadesh B Shankar S K	Mrs.K.Jeyageetha	Automated sensor model for poultry litter gas emissions management	IoT	Presented in “International conference on Emerging trends in Science, Technology, Engineering and Management’24” organized by Bharat Niketan Engineering College”
2.	Abinaya M Divya M K Pavithra K Venesha L	Ms.G.Sakthi Priya	Multi Person Pose Estimation and Part Segmentation	Machine Learning	Presented in “International conference on Artificial intelligence, cyber security and game design 2024” organized by Ramco Institute of Technology
3.	Bhuvaneshwari S Ragavi V G Muthu Brijesh R	Mrs. S. Vijaya Amala Devi	Knowledge Base for products	Application	Presented in “International conference on Emerging trends in engineering science and technology” organized by K.Ramakrishnan College of

					Engineering
4.	Bowyaa L Jelena Jophin J Subhiksha G Harini Priya S	Mr.K.Vignesh Saravanan	Enhancing data security and privacy using hybrid cryptography	Cyber security	Presented in “The 6th International conference on multi disciplinary perspective in engineering and technology – 6th ICMPET – 2024” Organized by National Institute of Computing
5.	Gayathri Devi Karunya V Poojalakshmi T Srinidhi R	Dr.R.Venkatesh	A Comprehensive system for image and video based pothole detection, damage level analysis with comparative	Machine learning	Presented in “International conference on navigating metaverse in shaping the future of business” organized by Vivekananda Institute of Information and management studies
6.	Gnanaguru Vignesh G Sukumaran G Raama Krishnan Vr Subramani Lokesh	Dr.R.Venkatesh	A Machine learning driven ERP Model for optimizing cooked food supply	Machine learning and application	Presented paper in “Kamaraj International conference on recent trends in science, engineering and technology – KIRSET’24” organized by Kamaraj College of Engineering and Technology
7.	Gopiy K J Gowtham Karthikeyan M	Mr.C.A.Yogaraja	Security enhancement in remote	Cyber security	Presented in “International conference on

	Jothi Lingapandian M Sivagurunathan G		keyless entry system		Artificial intelligence, cyber security and game design 2024” organized by Ramco Institute of Technology
8.	Harinisrivalli V Keerthana V S Shanmugapriya Tharani M N	Dr.I.Gethzi Ahila Poornima	Helmet with number plate and Mobile Usage detection using YOLOv8	Machine Learning	Presented in “International conference on Artificial intelligence, cyber security and game design 2024” organized by Ramco Institute of Technology
9.	Harsha R Rajalakshmi R U Saravana Jothi G Shakthi S	Mrs.B.Vijayalakshmi	AQI insights and comparative study of PM 2.5 forecasting using machine learning and deep learning algorithms	Machine learning and application	Presented in “International conference on Artificial intelligence, cyber security and game design 2024” organized by Ramco Institute of Technology
10.	Kamini K Lakshmi Priya G Raja Dharshini .S Sarumathi M	Dr.V.Anusuya	Underwater image enhancement for low light images using yolov8	Machine learning	Presented paper in “Kamaraj International conference on recent trends in science, engineering and technology – KIRSET’24” organized by Kamaraj College of Engineering and Technology
11.	K Syed Aslam Praveen S	Dr.M.Swarna Sudha	Resume parsing with	Application	Presented in “International

	Rajasekaran T Sivakumar M		ranking system		conference on Artificial intelligence, cyber security and game design 2024” organized by Ramco Institute of Technology
12.	Kumar M Mugesh M Shri Dheiva R Sivakumar P	Mrs.S.Manjula	Deep learning approach for forecasting cryptocurrency markets	Machine learning	Presented in “International conference on Artificial intelligence, cyber security and game design 2024” organized by Ramco Institute of Technology
13.	Nishashree M P Preetha Sowmiya V Vishnupriya S	Mrs.M.Dhivya	Fatigue state detection in mass gathering	Machine learning	Presented in “Kamaraj International conference on recent trends in science, engineering and technology – KIRSET’24” organized by Kamaraj College of Engineering and Technology
14.	Paranthaman J Sathishkumar K Ilayabharathi S Sathya Narayanan B	Ms.P.Jothi Thilaga	Multimodal analysis of youtube content: Automated toxicity classification for audio transcripts and comments	Machine learning	Presented in “International conference on recent innovation in science engineering and technology” organized by Jeppiaar Institute of Technology
15.	Akhash Aravind P	Mrs.K.Jeyakarthika	Dynamic question	Machine Learning	Presented paper in “Kamaraj

Ijaas Ahamad M Karthikeyan B Vino A		generation based on user performance in adaptive exam	and application	International conference on recent trends in science, engineering and technology – KIRSET'24" organized by Kamaraj College of Engineering and Technology
--	--	--	--------------------	--

Industry Project details are given in table 2

Table 2: Internship project details

Sl. No.	Name(s) of the student(s)	Name of the Supervisor	Title of the Project	Area of the Project	Outcome
1	Bhuvaneshwari S Ragavi V G Muthu Brijesh R	Mrs. S. Vijaya Amala Devi	Knowledge Base for products	Application	Internship

Project classification details, SDG Goals, PO, PSO addressed are given in table 3

Table 3: Project classification details

Sl.No	Name(s) of the student(s)	Title of the Project	Area of project	Project Classification	PO, PSO Addressed	SDG
1	AanandaGanesan R	Automated sensor model for poultry litter gas emissions management	IOT	Product	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO2	Clean Water and Sanitation (SDG 6)
	ShaktheeSaravana M					
	Jegadesh B					
	Shankar S K					
2	Abinaya M	Multi Person Pose Estimation and Part Segmentation	Machine Learning	Research	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO3	Good Health and Well-Being (SDG 3)
	Venesha L					
	Divya M K					
	Pavithra K					
3	AkhashAravind P	Dynamic question generation based on user performance in	Machine Learning	Application	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12,	Quality Education (SDG 4)
	IjaasAhamad M					
	Karthikeyan B					
	Vino A					

		adaptive exam			PSO1	
4	Balamurali Krishna R N	LPG gas level and leakage detector	IOT	Product	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO2	Affordable and Clean Energy (SDG 7)
	Muthu Kumar K					
	Balamurugan K					
5	Bhuvaneshwari S	Knowledge base for products		Application	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO1	Industry, Innovation, and Infrastructure (SDG 9)
	Ragavi V G					
	MuthuBrijesh R					
6	Bowya L	Enhancing cloud security: Exploring the power of blowfish cryptography	IOT	Research	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO2	Industry, Innovation, and Infrastructure (SDG 9)
	JelenaJophin J					
	Subhiksha G					
	HariniPriya S					
7	harani Raj V	Optimize water management in piped and micro irrigation with AI to predict crop water needs, automated values and boost yield	Machine Learning	Product	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO2, PSO3	Clean Water and Sanitation (SDG 6)
	Joe Alan R S					
	Sathish Kannan M					
8	Dhiraj N	3D multiperson action recognition using machine learning technique	Machine Learning	Research	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO3	Good Health and Well-Being (SDG 3)
9	Gayathri Devi	A Comprehensive system for image and video based pothole detection, damage level analysis with comparative	Machine Learning	Research	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO3	Sustainable Cities and Communities (SDG 11)
	Poojalakshmi T					
	Sarumathi M					
	Srinidhi R					

10	GnanaguruVignesh	A Machine learning driven ERP Model for optimizing cooked food supply	Machine Learning	Application	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO1, PSO3	Zero Hunger (SDG 2)
	Sukumaran G					
	Raama Krishnan Vr					
	SubramaniLokesh					
11	Gopiy K J	Security enhancement in remote keyless entry system	Cyber Security	Research	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO2	Industry, Innovation, and Infrastructure (SDG 9)
	GowthamKarthikeyan M					
	JothiLingapandian M					
	Sivagurunathan G					
12	Harinisrivalli V	Helmet with number plate and Mobile Usage detection using YOLOv8	Machine Learning	Research	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO3	Good Health and Well-Being (SDG 3)
	Keerthana V					
	S Shanmugapriya					
	Tharani M N					
13	Harsha R	AQI insights and compartivie study of PM 2.5 forecasting using machine learning and deep learning algorithms	Machine Learning	Research	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO3	Climate Action (SDG 13)
	Shakthi S					
	Rajalakshmi R U					
	SaravanaJothi G					
14	Kamini K	Underwater image enhancement for low light images using yoloV8	Machine Learning	Research	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO3	Industry, Innovation, and Infrastructure (SDG 9)
	Raja Dharshini .S					
	Karunya V					
	Lakshmi Priya G					
15	K Syed Aslam	Resume parsing with ranking system		Application	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO1	Decent Work and Economic Growth (SDG 8)
	Praveen S					
	Rajasekaran T					
	Sivakumar M					
16	Kumar M	Deep learning approach for forecasting cryptocurrency markets	Machine Learning	Research	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO3	Industry, Innovation, and Infrastructure (SDG 9)
	Mugesh M					
	Shri Dheiva R					
	Sivakumar P					

17	Nishashree M	Fatigue state detection in mass gathering	Machine Learning	Research	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO3	Good Health and Well-Being (SDG 3)
	P Preetha					
	Sowmiya V					
	Vishnupriya S					
18	Paranthaman J	Multimodal analysis of youtube content: Automated toxicity classification for audio transcripts and comments	Machine Learning	Research	PO1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, PSO3	Peace, Justice, and Strong Institutions (SDG 16)
	Sathishkumar K					
	Ilayabharathi S					
	Sathya Narayanan B					

Suggestion given by PAQIC Members

- PAQIC members insisted on applying for patents for the product design projects.
- Suggested to convert the project work into research articles and publish them in journals

13. Min- Project

2.4 Seminars and Mini/Micro Projects

Academic Year 2024-2025

S.No	Year & Sem	Subcode	Subject Name	Number of Mini Projects	No of Students
1.	IV/VII	CCS346	Exploratory Data Science	9	28
2.	III/V	CCS334	Big Data Analytics	8	26
3.	III/V	CCS355	Neural Network & Deep Learning	5	14
4.	III/V	CCS370	Ui/Ux Design	44	116
5.	III/V	CCS375	Web Technology	32	116
6.	III/V	SB8026	Uipath-Robotic Process Automation Foundation Course	20	116
7.	II/III	CS3361	Data Science Laboratory	27	83
8.	I/I	GE3171	Problem Solving & Python Programming Lab	50	126

Suggestions given by the Panel Members: Nil

14. Continuous Improvement

3.7 Attainment of Course Outcomes

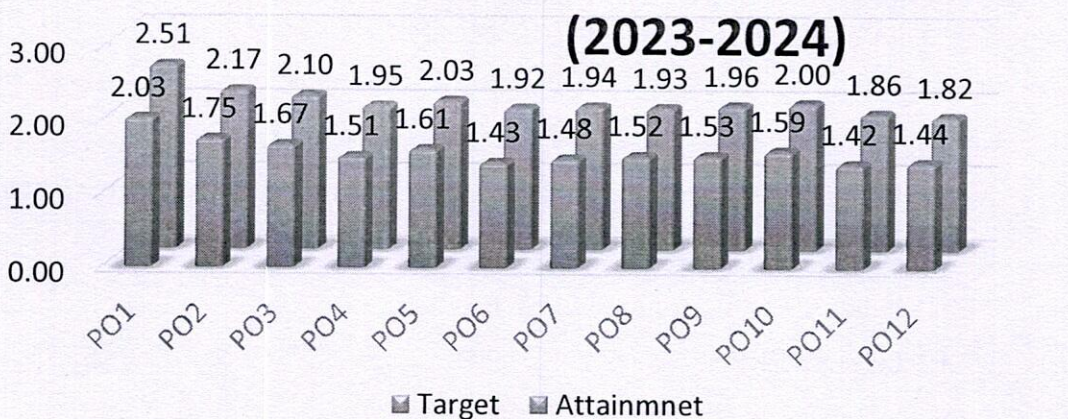
3.8 Attainment of Program Outcomes and Program Specific Outcomes

8.1. Actions Taken Based on the Results of Evaluation of the COs, POs, and PSOs

Presenter: Dr.C.A.Yogaraja(AP/SG)

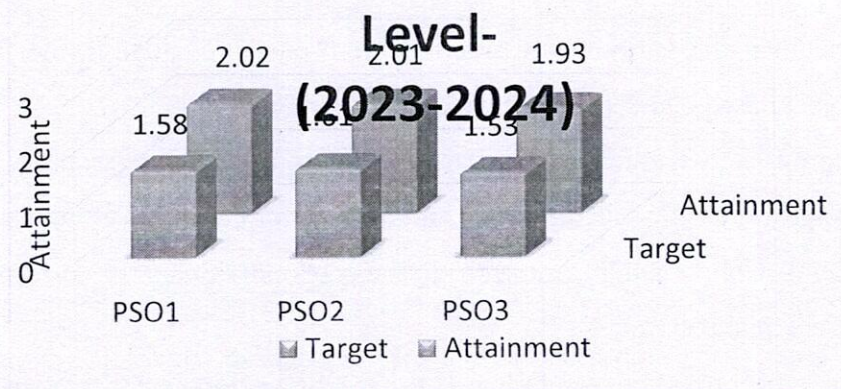
- Explained the various assessment tools used for evaluating the theory, laboratory and project based courses were explained
- Appropriate weightage for each assessment tool were discussed
- The procedure for calculating CO attainment for course level were explained
- Overall Course attainment with the help of individual CO corresponding to the Course were explained
- The procedure for calculating PO and PSO attainment for courses and PO and PSO attainment process for the programme were presented.
- The target fixation and attainment level for the batches 2020-2024 were explained.

PO Attainment and Target Level-



- The attainment of PO is calculated by giving 80% of weightage to courses as direct assessment and 20% as indirect assessment through Alumni survey and programme exit survey
- The attainment of POs and PSOs against the Target for the 2020-2024 passed out batch were discussed.

PSO Attainment and Target



- CO attainments for all the academic year of all the courses were discussed.
- Proposed the PO/PSO target setting approach by using percentage of mapped average values
- Presented information regarding the 2020–2024 student batch's overall program outcome (PO) and program specific outcome (PSO) against the target.
- Presented the various E-governance initiatives, sustainable practices in academic and learning management, campus-wide computing resources, and their accessibility and availability to support academic and professional activities for students and faculty
 - Online Fee Payment System
 - In house Online Admission System
 - In house ERP
 - In house CoE Portal
 - In house e-approval System for purchase
 - STP Monitoring System
 - Library
 - KOHA
 - DELNET
 - Remote Access Facility for IEI
 - Remote Access Facility for NDLI
 - Remote Access Facility for INFED

15. Budget Allocation

9.8 Program Specific Budget Allocation, Utilization

9.10 E-Governance

Presenter: Mrs.K.Jeyageetha, AP/CSE

The presenter presented the Budget allocation and Utilization of the year 2024-2025.

S.No	Budget Head	Allotted	Utilized	% of Utilization
A.	Laboratory Equipment	1,15,00,000	1,10,58,665	96.16%
B.	Software	1,00,000	40,000	40%
C.	SDGs	3,00,000	2,44,720	81.57%
D.	Support for faculty development	1,00,000	73,723	73.72%
E.	R & D	3,04,000	1,38,855	45.67%
F.	Industrial Training, Industry expert, Internship	5,00,000	47,387	9.4%
G.	Miscellaneous	1,75,000	1,49,042	85.16%
	Total	1,29,79,000	1,17,52,392	90.54%

Suggestions Given by Panel Members:

During the meeting, the panel members enquired about the expenditure for SDGs, Industrial Training, Industry expert, Internship and the proof were shown.

16. Extracurricular Activities

9.14 Outreach Activities

Alumni Interaction

9.3 Feedback Analysis

9.5 Start-up and Entrepreneurship Activities

9.13 Faculty Performance Appraisal and Development System

Presented by Sakthi Priya G,

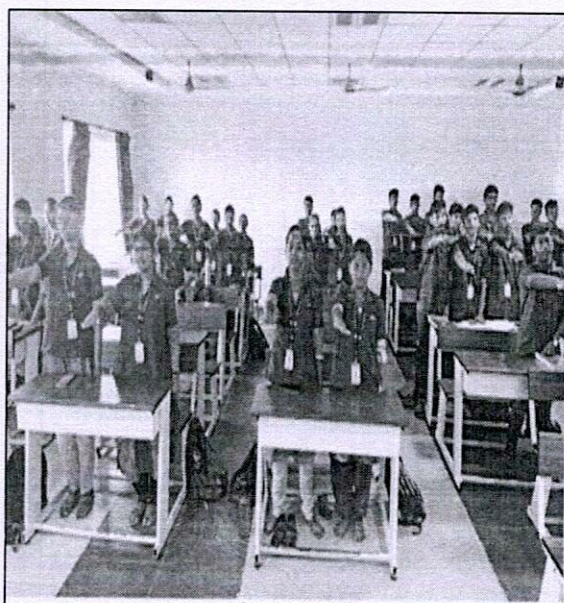
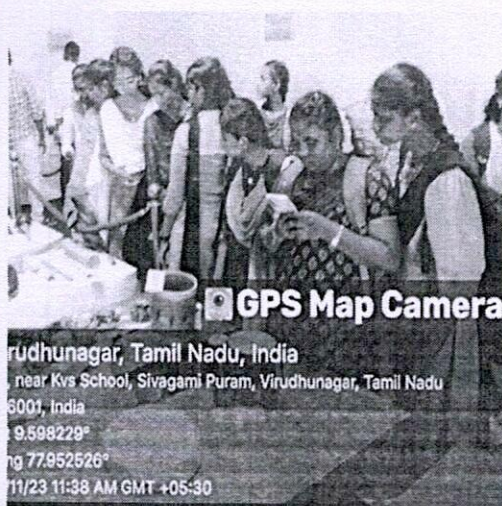
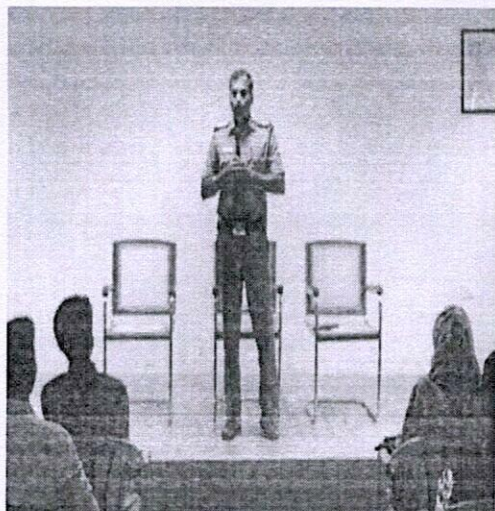
Process owner of Outreach activities presented the multiple activities, including awareness programs, plantation drives, cleanliness campaigns, skill development workshops, and civic engagement initiatives. The participation of CSE students in these activities was emphasized, demonstrating their commitment to social responsibility and community welfare

The list of Outreach activities is listed in table 1

Table 1: List of Outreach activities

1.	01.06.2023	Special lecture on Save Energy
2.	01.06.2023	Tree Plantation & Cleanliness drive
3.	02.06.2023	Webinar on Alternatives to Synthetic Plastics
4.	05.06.2023	World Environmental Day - Awareness Rally
5.	18.06.2023	International Day of Yoga Celebrations – 2023

6.	26.06.2023	Awareness Rally on International Day Against Drug Abuse and Illicit Trafficking
7.	09.07.2023	Orphanage Visit
8.	11.07.2023	NEP ki Samajh - Short Video Competition
9.	11.08.2023	Drug Free Tamil Nadu - Pledge Taking Programme
10.	21.08.2023 &24.08.2023	Lecture for UHV on Right Feelings & Right Understandings
11.	19.09.2023	Orientation Programme on NSS & YRC for First Year Students
12.	03.10.2023	Disposal of Wastes - Special Campaign 3.0
13.	06.10.2023	Special Lecture on Role of Students for Holistic Social
14.	13.10.2023	Palm Tree Plantation Drive
15.	16.11.2023	Literacy Activity – Visit for Book Exhibition
16.	12.02.2024	Orientation for NSS Volunteers & Awareness Rally
17.	13.02.2024	Temple Cleaning
18.	15.02.2024	Swachh bharat mission and Tree Plantation
19.	19.02.2024	Awareness Rally on Power of Vote
20.	01.04.2024	Orientation Program on Mera Pehla Vote Desh Ke Liye
21.	06.04.2024	Special Lecture for NSS Volunteers at Camp sites
22.	15.02.2024	Swachh bharat mission and Tree Plantation
23.	19.02.2024	Hospital Cleaning and Heritage Building Restoration Initiative
24.	01.04.2024	Yoga Training for School Students
25.	06.04.2024	Awareness Rally on Power of Vote
26.	15.02.2024	Special Lecture on Health & Hygiene
27.	19.02.2024	Aari Work Training
28.	03.04.2024	Orientation Program on Mera Pehla Vote Desh Ke Liye
29.	04.04.2024	Coffee With Collector
30.	06.04.2024	Vote is Not for Sale- Pledge Taking Event



Alumni interactions

Presented by Sakthi Priya G

Alumni interactions play a vital role in bridging the gap between academic learning and professional growth. These engagements provide students with valuable insights into industry trends, career pathways, and real-world challenges. By sharing their experiences, alumni serve as mentors and motivators, inspiring current students to achieve their goals and excel in their chosen fields. The department conducted a series of alumni interaction sessions to provide insights and strategies for job placement to the final-year students. The key highlights of these interactions are outlined below:

1. Crafting Your Future with Ramco Systems

- **Speaker:** Mr. M. Vijaya Aadhithya (Batch 2019–2023), Analyst Programmer, Ramco Systems, Chennai
- **Target Audience:** IV CSE
- **Outcome:** 9 students successfully placed in Ramco Systems.

2. Secure Your Spot at Solartis

- **Speakers:**
 - Mr. Surya (Batch 2017–2021)

- Mr. Siva Kumar (Batch 2020–2024), Associate Quality Analyst, Solartis, Madurai
 - **Target Audience:** IV CSE
 - **Outcome:** 1 student placed at Solartis.
- 3. **Grab Your Job @ TCS**
 - **Speakers:**
 - Ms. Shanthi Priya (Batch 2018–2022), Product Engineer, Digitate, TCS
 - Ms. Sri Dharshini (Batch 2018–2022), DevOps and Automation Engineer, TCS
 - **Target Audience:** IV CSE
 - **Outcome:** 4 students placed, including:
 - **TCS Digital:** 2 students
 - **TCS Ninja:** 2 students
- 4. **CTS Success Blueprint**
 - **Speakers:**
 - Ms. Dharsana (Batch 2019–2023)
 - Ms. Lavanaya Devi (Batch 2019–2023), Developer, CTS
 - **Target Audience:** IV CSE
 - **Outcome:** Insights provided for excelling in Cognizant Technology Solutions (CTS) placements.
- 5. **Tips for Successfully Joining Lavendal**
 - **Speakers:**
 - Ms. Gayathri Devi
 - Mr. Gopiy
 - Mr. Paranthaman
 - Mr. Siva Kumar
 - Mr. Harsha
 - Mr. Sathya Narayanan (Batch 2020–2024), Junior Configuration Engineer, Lavendal Consulting
 - **Target Audience:** IV CSE
 - **Outcome:** Practical strategies for securing positions at Lavendal Consulting were shared.
- 6. **Land Your Job at Centizen**
 - **Speakers:**
 - Mr. Santhosh (Batch 2016–2020)
 - Mr. Jayarama Sankaramoorthy (Batch 2019–2023), Software Developer, Centizen
 - **Target Audience:** IV CSE
 - **Outcome:** Students were guided on the skills and competencies needed to excel at Centizen.

Technical Session: Thriving in Tech

A technical session titled "**Thriving in Tech**" was conducted to inspire and guide students on excelling in the technology field. The session was delivered by **Mr. Ijaas Ahamad (Batch 2020–2024)**, Member Technical Staff at ZOHO Corporation, Chennai, on **24th August 2024**, at **10:00 AM**.

Key Discussion Points:

- **Importance of Problem-Solving Skills**
- **Coding Platforms to Get Practiced**
- **Choosing a Domain**

- **Importance of Self-Learning**

Impact of the Session:

The session received an excellent response, with students gaining valuable insights into preparing for a successful career in the tech industry. It served as a motivational platform, inspiring participants to take proactive steps towards their professional growth.

Guest Lecture: Campus to Corporate

As part of the academic enrichment initiatives, a guest lecture titled "**Campus to Corporate**" was organized for **IV CSE students** under the subject **Human Resource Management**. The session was conducted by **Ms. Deva Dharshini (Batch 2014–2018)**, HR Executive at Intronosft.

Key Highlights of the Lecture:

- **Role of HRM in Transitioning to Corporate Life**
- **HR Practices and Corporate Culture:**
- **Adapting to Professional Environments Effectively**

Impact of the Session:

This interactive session provided valuable insights into the corporate world, preparing students for future professional challenges. It also inspired them to develop the necessary soft skills and knowledge for excelling in their careers.

Feedback Analysis

Stakeholder Feedback Presented During the Meeting:

- Students
- Faculty Members
- Alumni
- Parents
- Resource Person
- Recruiter
- Students suggested the inclusion of quiz-like events to enhance their problem-solving abilities and design contests to foster creativity and skill development. In response, we organized interactive quizzes, design sprints, and skill-based competitions to boost engagement and critical thinking.
- Faculty members emphasized the importance of operating systems in high-performance computing (HPC) systems and recommended sessions on HPC. They also highlighted the growing demand for roles in data analysis, AI, and machine learning (ML). As a result, we arranged workshops and guest lectures to address these areas, including sessions on HPC, AI, ML, and data analysis, to equip students with the necessary skills for emerging job opportunities.
- Alumni suggested offering more courses on coding neural networks and data science to prepare students for the ever-evolving tech landscape. To meet this demand, we invited alumni for talks and discussions about career pathways in data science, AI, and neural networks, while also exploring new course offerings in these domains.
- Facilities feedback highlighted the need for better infrastructure, including additional webcams, headphones, updated computer systems, and cybersecurity software. We responded by procuring new equipment, upgrading systems, and installing specialized software to enhance the student experience, especially for placement drives.

Performance appraisal

Presented by Dr B.Vijayalakshmi

The implementation and effectiveness for the performance appraisal system for the academic year 2023-2024 was presented and is given in the table 5.7

Table 5.7 Performance Appraisal Effectiveness

S. No.	Name of the faculty Member	Remarks (2023-2024)	Effectiveness (during 2024-2025)
1.	Dr. K Vijayalakshmi	<ul style="list-style-type: none"> Initiate industry project and sponsored research & Consultancy 	<ul style="list-style-type: none"> Industry Project- Raja Nursery, Gowri House, Magnion Patent- Filed & Published SCI Journal paper
2.	Dr. R. Venkatesh	<ul style="list-style-type: none"> Funded project proposal, patent Journal Publication Get Research supervisor recognition 	<ul style="list-style-type: none"> Published paper in SCI & Scopus indexed Journal Funded project applied-TNSCST- S&T Attended ATAL FDP
3.	Dr.M.Swarna Sudha	<ul style="list-style-type: none"> Funded project proposal, Journal Publication Improve Industry interaction Get Research supervisor recognition 	<ul style="list-style-type: none"> Published paper in Scopus Journal, Book chapter Funded project applied-TNSCST- S&T Attended ATAL FDP
4.	Mrs.B.Vijayalakshmi	<ul style="list-style-type: none"> Research Completion Paper publication in Journal Initiate R & D activity File patent & industry supported project 	<ul style="list-style-type: none"> Ph.D Awarded. Published paper in Scopus Journal Industry Project- Raja Nursery (Mobile app development) Attended ATAL FDP
5.	Ms.P.Jothi Thilaga	<ul style="list-style-type: none"> Paper publication in Journal To complete Industry certification Research & Development activity 	<ul style="list-style-type: none"> Completed Industry certification(Wipro) Published paper in Scopus Journal, Book chapter Attended ATAL FDP
6.	Ms.S.Manjula	<ul style="list-style-type: none"> Paper publication in Journal Research & Development activity File patent & industry supported project 	<ul style="list-style-type: none"> Received TNSCST Funded project (Rs.7,500) Published paper in SCI, Scopus Journal, Book chapter Attended ATAL FDP
7.	Mr.C.A.Yogaraja	<ul style="list-style-type: none"> Research & Development activity 	<ul style="list-style-type: none"> Ph.D Awarded. Published paper in Scopus

		<ul style="list-style-type: none"> Journal Publication & Patent Research Completion 	<ul style="list-style-type: none"> Journal Funded project applied-TNSCST-ST Attended ATAL FDP
8.	Mr.K.Vignesh Saravanan	<ul style="list-style-type: none"> Research & Development activity Journal Publication & Patent Research Completion 	<ul style="list-style-type: none"> Synopsis submitted Published paper in SCI, Scopus Journal
9.	Ms.G.Sakthi Priya	<ul style="list-style-type: none"> Participation in FDP/SDP/STTP Paper publication in Journal and Conference Research & Development activity 	<ul style="list-style-type: none"> Completed Confirmation-Ph.D Published Scopus Journal Paper Applied funded project in MSME Attended ATAL FDP
10.	Dr.I.Gethzi Ahila Poornima	<ul style="list-style-type: none"> Paper publication in Journal Initiate R & D activity File patent & industry supported project Get Research supervisor recognition 	<ul style="list-style-type: none"> Filed Patent Published paper in SCI, Scopus Journal, Book chapter Funded project applied-TNSCST- S&T
11.	Mrs.K.Jeyageetha	<ul style="list-style-type: none"> Participation in FDP/SDP/STTP Paper publication in Journal and Conference 	<ul style="list-style-type: none"> Attended ATAL FDP
12.	Mrs.T.Shruthi	<ul style="list-style-type: none"> Participation in FDP/SDP/STTP Paper publication in Journal and Conference 	<ul style="list-style-type: none"> Published paper in Scopus journal
13.	Mrs.K.Jeyakarthika	<ul style="list-style-type: none"> Participation in FDP/SDP/STTP Paper publication in Journal and Conference 	<ul style="list-style-type: none"> Published paper in Scopus journal Attended ATAL FDP
14.	Mrs.S.Vijaya Amala Devi	<ul style="list-style-type: none"> Participation in FDP/SDP/STTP Paper publication in Journal and Conference 	<ul style="list-style-type: none"> Attended FDP
15.	Mrs.A.Sofia Thanga Mary	<ul style="list-style-type: none"> Participation in FDP/SDP/STTP Paper publication in Journal and Conference 	<ul style="list-style-type: none"> Attended FDP
16.	Mrs.M.Dhivya	<ul style="list-style-type: none"> Participation in FDP/SDP/STTP Paper publication in 	<ul style="list-style-type: none"> Completed Industry certification(Wipro)

17. Outcome-Based Curriculum

2.1 Review of Curriculum Gap identification and the implementation of Content Beyond the syllabus

Review of Curriculum Gap Identification and the implementation of CBS

Presenter: Dr.I.Gethzi Ahila Poornima, ASP/CSE

Dr.I.Gethzi Ahila Poornima presented the Content Beyond Syllabus Suggestions in Theory & Laboratory Courses (2024-2025 Odd) and Action Taken.

Consolidated Content beyond syllabus suggestion details and their corresponding actions taken is shown in Table 1

S.No	Name of the Course	Suggested by	Content Suggested	Action Taken
1.	CS3591 Computer Networks	R. BASKAR, Sub Divisional Engineer RGM TTC- Chennai, BSNL - Tamilnadu Circle.9486102892.	Point to Point Leased Line network, Internet Leased line (ILL), Multi-Protocol Label Switching (MPLS), VPI , ISDN5. Software defined WAN.	Conducted one-day seminar on 11.11.2024 (Venue : Seminar Hall Recourse Person Mr.S.Pandeeswa an, BSNL, Virudhunagar)
2.	CS3391 Object Oriented Programming	Mr.N.Dhiraj, Technical Staff Member, Zoho	Concurrency and Multithreading, Java Stream API, Java Collections, Frame Work	Conducted guest lecture on "JAVA API" on 05.10.2024. (Venue: Seminar Hall)
3.	GE3754 Human Resource Management	Devadharshini D HR Associate, Intronsoft.	Knowledge about Payroll Handling, Resignation Handling of an Employee, Emotional Balance in Critical Situations, Legal and Ethical Management, Employee Engagement Activities:	Conducted one guest lecture and an Industrial Expertise Session as partial Delivery.
4.	CS3501 Compiler Design	Dr B Indira, Assistant Professor (Sr Gr 2) School of	Students can be encouraged to practice lab sessions using the	Visualization of compilation process of a

		Computer Science and Engineering, Vellore Institute of Technology, Chennai Campus, Chennai - 600127.Tamilnadu, India.	LLVM virtual machine tool. Topics such as software pipelining and parallelism should be included as part of advanced concept learning criteria	sample C program in LLVM virtual tool – Given as <u>Assignment to A Category</u> Students. The suggested topic was taken as content beyond syllabus in class.
5.	CS3301 Data Structures	Dr.M.Poonkodi, Assistant Professor Senior Grade I, Vellore Institute of Technology, Chennai.	List of Applications of Data structures.	Taken as content beyond syllabus
6.	GE3151 Problem Solving and Python Programming	Moneka, Accenture, Chennai	Introduction to Flask:	Taken as content beyond syllabus in the class.
7.	CS3352 Foundations of Data Science	Dr S.Rajkumar, Associate Professor, School of Computer Science and Engineering (SCOPE), Vellore Institute of Technology, Vellore	Case studies: Electricity consumption Data Analysis, Analysis of changes in pollution levels, Patient Survival Analysis.	Handled in the class as content beyond syllabus.
8.	CS3353 C Programming and Data structures	Dr.Abdus Samad, Department of Ocean Engineering, IITM.	Code in C can be given as Assignments	Assignments were given to implement DS concepts in C.
9.	CCS370 UI and UX Design	G.Pandiya Rajan Assistant Professor (Senior Grade) , Department of CSE(Artificial Intelligence and Machine Learning) , KPR Institute of Engineering and Technology,	Topic such as “Voice User Interface - VUI” Introduce the principles of designing for voice-activated interfaces. It allows users to interact with devices using voice commands. It enhances accessibility,	Conducted as Content beyond the syllabus

		Coimbatore.	provides hands-free convenience, and is essential in smart assistants like Amazon Alexa and Google Assistant.	
10	CCS346 Exploratory Data Analysis	Mr.Thamizh Selvan, Engineering Manager at Circana	Topics such as Power BI and SQL should be included	Three Days Value added course was conducted on PowerBI by ICT ACT Resource Person: Ms.P.Abitha, Microsoft Certified Trainer. Date: 09.12.2024 to 11.12.2024

Table 1: Consolidated Curriculum Gap Identification and action taken (From June 2024)

- At the beginning of each semester, the syllabus and PSO & PEOs are sent to various academicians and industry
- y persons for suggestions in curriculum so as to fill the gap between the current curriculum and industry needs.
- Based on the suggestions given by the academicians and Industry persons, various actions such as conduction of guest lectures, value added courses, assignments to bright students, and content beyond syllabus (taken by course handling faculty) were taken.
- In addition to content beyond syllabus, to satisfy the industry expectations, partial delivery by the industry experts were conducted for the following courses, Human Resource Management, Software Testing & Automation and Big Data Analytics.

Suggestions given by the Panel Members: Nil

18.Outcome-Based Teaching Learning

2.1 Describe Processes Followed to Ensure Quality of Teaching & Learning

9.9 Quality of Learning Resources

9.12 Innovative Educational Initiatives and Implementation

2.1Academic calendar and instruction methods using pedagogical initiatives such as real-world examples, collaborative learning

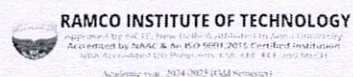
ADHERENCE TO ACADEMIC CALENDAR

The academic calendar is prepared for higher semester courses and first semester

courses for every semester as per the Anna University academic schedule. Academic calendar includes the details as shown in Table 1

Sl.No.	Details given in the academic calendar
1.	Date of commencement of the class
2.	Date of submission of Internal Assessment Test(IAT) Question Paper
3.	Date of submission of Consolidated Marks Statement of Internal Assessment Tests and displaying a copy in notice board
4.	Date for dispatch of Students Attendance and IAT performance to Parents
5.	Date for collecting Students feedback through online (mentioned both starting and ending date)
6.	Date for conducting Parents Teachers Meeting
7.	Date for Conducting Department Advisory Committee Meeting
8.	Date for Conducting IQAC and MRM meeting
9.	Tentative dates for conducting Events
10.	Dates of the commencement of the Internal Assessment Tests
11.	Commencement of Model Practical Tests
12.	Date of completion of each unit
13.	Tentative dates for University practical and theory exams
14.	Total number of working days
15.	Details of holidays

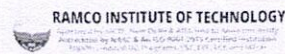
Presented the academic circulars and announcements pertaining to the Odd Semester of the academic year 2024-25, ensuring adherence to the institutional academic calendar. The data highlights key dates related to reopening, holidays, special schedules, and student-related events.



CIRCULAR
 RIT Academic/2024-2025/XXX/1.1.07.24 Working Day-02 06.05.2024

It is hereby informed that 15.07.2024 (Monday) is declared as working day for all faculty and supporting staff members due to Anna University Theory Examination.

Academic Coordinator: [Signature] GM (AI): [Signature] Vice Principal: [Signature] Principal: [Signature]



CIRCULAR
 RIT Academic/2024-2025/XXX/1.1.07.24 Working Day-02 07.05.2024

It is hereby informed that 15.07.2024 (Monday) is declared as working day for all faculty and supporting staff members. It is also to be noted that 15.07.2024 is declared as working day for all students.

It is hereby informed that 15.07.2024 (Monday) and 15.08.2024 (Monday) are the dates for the Anna University Theory Examination.

It is also to be noted that the dates for the Anna University Theory Examination are 15.07.2024 and 15.08.2024. The dates for the Anna University Theory Examination are 15.07.2024 and 15.08.2024. The dates for the Anna University Theory Examination are 15.07.2024 and 15.08.2024.

Academic Coordinator: [Signature] GM (AI): [Signature] Vice Principal: [Signature] Principal: [Signature]

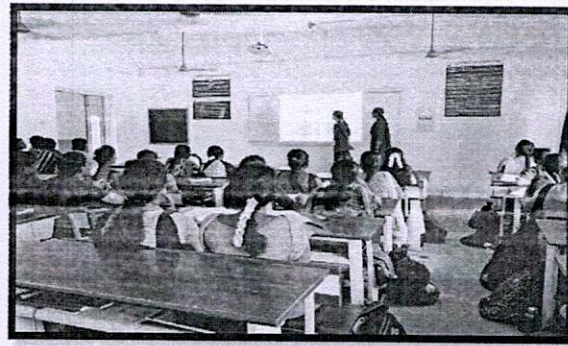
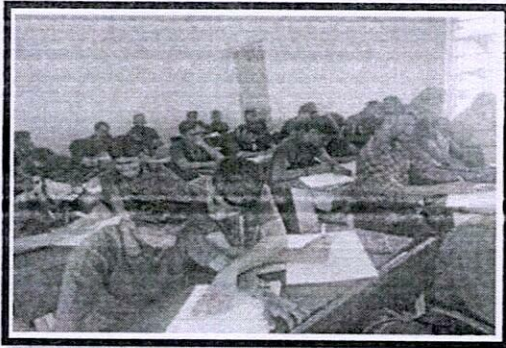
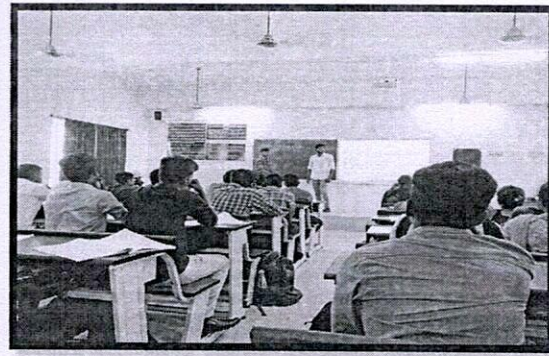
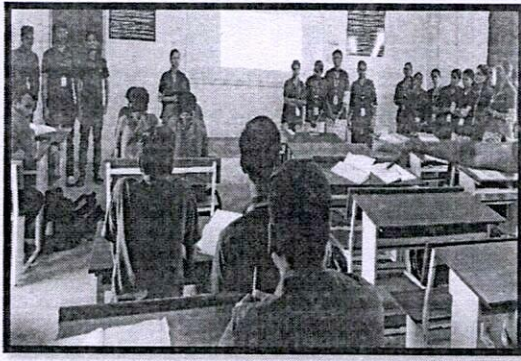
This presentation highlighted the various pedagogical initiatives employed in the current academic curriculum, with a focus on **Active Learning**, **Collaborative Learning**, and **E-Learning**. These initiatives aim to enhance student engagement, foster critical thinking, and develop problem-solving skills. The presentation showcased specific methodologies and associated tools for each learning strategy, along with examples from courses taught at [Your Institution].

Active Learning Methods

Active Learning is an instructional approach that encourages students to actively participate in their learning process rather than passively receiving information. Several techniques were discussed:

1. **Role Play:**
 - **Courses:** GE3151 Problem Solving and Python Programming, CS3353 C Programming and Data Structures
 - Role play enables students to understand complex concepts by taking on specific roles in a scenario and responding to real-world situations.
2. **Crossword Puzzle:**
 - **Courses:** GE3754 Human Resource Management, CCS375 Web Technologies
 - Crossword puzzles promote problem-solving while reinforcing subject-specific terminology.
3. **Think-Pair-Share:**
 - **Courses:** CS3352 Foundations of Data Science, CS3353 C Programming and Data Structures
 - This method encourages students to think about a topic individually, discuss with a partner, and then share their findings with the class.
4. **Flash Cards:**
 - **Courses:** CS3352 Foundations of Data Science, CS3353 C Programming and Data Structures
 - Flashcards enhance memory recall and understanding of key concepts.
5. **Reflection:**
 - **Courses:** CS3352 Foundations of Data Science, CCS375 Web Technologies
 - Reflection allows students to connect learning to real-world applications and enhances critical thinking skills.

Active Learning Screenshots



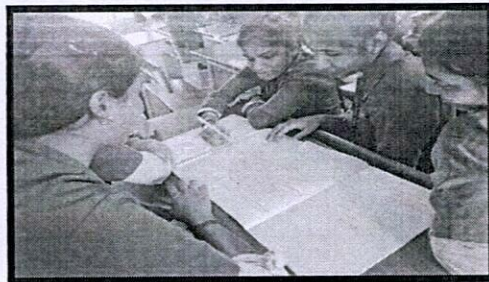
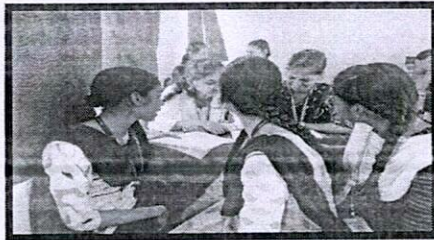
Collaborative Learning

Collaborative learning fosters teamwork, peer interaction, and shared problem-solving. Some key methods discussed include:

1. **Flipped Classroom:**
 - **Courses:** CB3491 Cryptography and Cyber Security, CS3301 Data Structures
 - In a flipped classroom, students engage with instructional content at home, while classroom time is used for collaborative problem-solving.
2. **Learning by Teaching:**
 - **Courses:** CS3352 Foundations of Data Science, CS3353 C Programming and Data Structures
 - Students teach their peers, solidifying their own understanding and enhancing communication skills.
3. **Jigsaw:**
 - **Courses:** GE3754 Human Resource Management, CB3491 Cryptography and Cyber Security
 - The Jigsaw method divides content into sections and each group is responsible for learning and teaching their section to others.
4. **Problem-based Learning:**
 - **Courses:** CS3352 Foundations of Data Science, CCS339 Cryptocurrency and Blockchain Technologies
 - Students work on solving real-world problems in teams, improving analytical and research skills.
5. **Peer Teaching:**
 - **Courses:** CS3501 Compiler Design, GE3754 Human Resource Management
 - Peer teaching promotes collaboration and enhances understanding through explanation and discussion.
6. **Collaborative Coding:**

- **Courses:** GE3754 Human Resource Management, CS3352 Foundations of Data Science
 - Students work together on coding challenges, fostering teamwork and collaborative problem-solving.
7. **Group Discussion:**
- **Courses:** CS8392 Object-Oriented Programming, CCS334 Big Data Analytics
 - Group discussions allow students to share perspectives and arrive at well-rounded conclusions

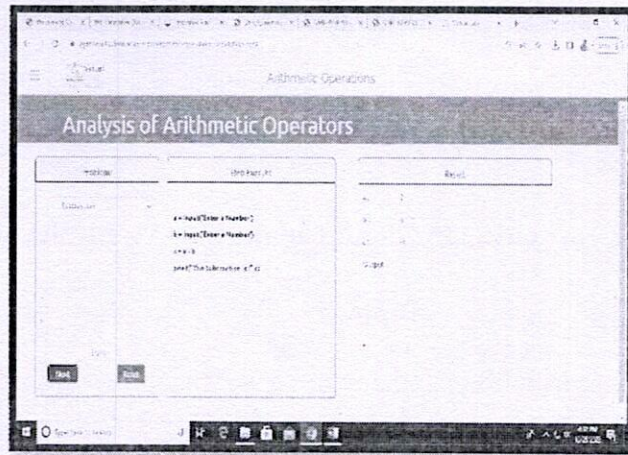
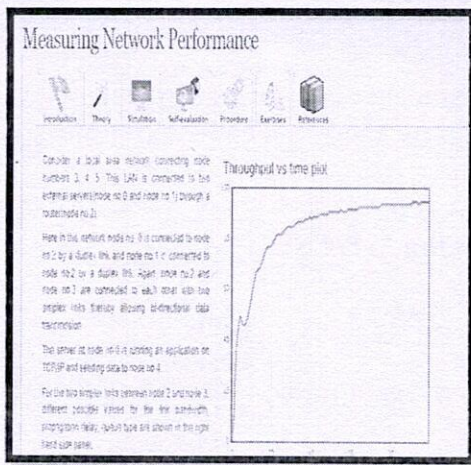
Collaborative Learning Screenshots:



E-Learning and Online Resources

E-learning tools and online resources play a vital role in supplementing classroom learning. The following links were shared as references for students:

1. Programming in C: <https://www.youtube.com/watch?v=UQ9gbay6jAs>
2. Theory of Computation: <https://www.youtube.com/watch?v=IqoGcGk2m5o>
3. Artificial Intelligence: <https://www.youtube.com/watch?v=-m3UtxKjLJI>
4. Problem Solving and Python Programming
<https://www.youtube.com/watch?v=IqoGcGk2m5o>
5. Internet Programming: <https://www.youtube.com/watch?v=zcl7xztdEwg&t=454s>
6. Compiler Design: <https://www.youtube.com/watch?v=fmu7TiXVmFw>
7. Cryptography and Network Security:
8. Mobile Computing: <https://www.youtube.com/watch?v=bvLHZbEIUOA>
9. Object-Oriented Analysis and Design
<https://www.youtube.com/watch?v=697YPojIF88>
10. Professional Ethics in Engineering:
<https://www.youtube.com/watch?v=q5IyHCxmcJQ>



Real World Example – Assignment

As part of enhancing the learning experience, students are regularly assigned real-world assignments and mini-projects that challenge them to apply theoretical concepts to practical situations. These assignments and mini-projects are designed to bridge the gap between classroom learning and industry requirements, enabling students to gain hands-on experience and prepare for real-world scenarios. The methods discussed are being applied in various subjects, including Problem Solving and Python Programming, C Programming and Data Structures, Compiler Design, and Cryptography and Cyber Security.

Real World Example – Assignment Screenshot

RAMCO INSTITUTE OF TECHNOLOGY
Department of Computer Science and Engineering
Academic Year: 2024 - 2025 (Odd Semester)
MINI PROJECT
Degree, Semester & Branch: 1 Semester, B.E. Computer Science and Engineering
Course Code & Title: CSE3111 & Python Scripting and Python Programming Lab
Name of the Faculty member: Dr. C. A. Venkatesh

1. Student Management System
Develop a student management system where student details (name, ID, marks in multiple subjects) are stored in a dictionary. Implement functionality for adding, deleting, and updating student records, calculating average marks, and generating a report card with grades.

2. Expense Tracker with Data Visualization
Create an expense tracking application that takes user input for daily expenses and stores them in a list of dictionaries. Generate monthly summaries, categorize expenses (food, utilities, rent), and visualize the data using bar charts and pie charts.

3. Library Management System
Build a library management system using dictionaries and files. Implement features for adding, issuing, and returning books. Use file handling to store the list of available books and issued books, and include error handling for invalid inputs.

4. Weather Data Analyser
Develop a program that reads a file containing historical weather data (temperature, humidity, rainfall), lists data and calculates to perform operations like finding average temperature, finding days and plotting weather trends using a simple graph.

5. Inventory Management System
Create an inventory management system for a small store using lists and dictionaries. Allow adding, removing, and updating products. Implement functionality for tracking inventory levels, low stock alerts, and generating sales reports.

6. Travel Planner with Budget Optimization
Design a travel planner that takes user input for travel destinations, estimated costs, and duration. Use a dictionary to store destination details and calculate the total travel budget. Display a summary of all planned trips with the total budget.

RAMCO INSTITUTE OF TECHNOLOGY
Department of Computer Science and Engineering
Academic Year: 2024 - 2025 (Odd Semester)
Degree, Semester & Branch: B.E. CSE
Course Code & Title: CSE3111 & Python Scripting and Python Programming Lab
Name of the Faculty member: Dr. C. A. Venkatesh

MINI PROJECTS ALLOCATION

Student Name	Topic/Project to be used
Team of 2 members (one member and one ship an application)	<ul style="list-style-type: none"> Python TUPLE Japaner automata Automata Interpreter Google Colab Package: NumPy, Pandas, Matplotlib, Seaborn.

List of Mini-Project Titles

1. Inverse Index Prediction
2. Sparse Tree Prediction
3. Inverse Tree Prediction
4. G.M Mean Prediction
5. Product Distance Prediction
6. L2 Norm Distance Prediction
7. Point Cloud Prediction
8. Graphs Graph Prediction
9. Graphs Distance Prediction
10. Graphs Quality Prediction
11. Graphs Quality Prediction
12. Graphs Quality Prediction
13. Graphs Quality Prediction
14. Graphs Quality Prediction
15. Graphs Quality Prediction
16. Graphs Quality Prediction
17. Graphs Quality Prediction
18. Graphs Quality Prediction
19. Graphs Quality Prediction
20. Graphs Quality Prediction
21. Graphs Quality Prediction
22. Graphs Quality Prediction

RAMCO INSTITUTE OF TECHNOLOGY
Department of Computer Science and Engineering
Academic Year: 2024 - 2025 (Even Semester)
MINI PROJECT
Degree, Semester & Branch: 1 Semester, B.E. Computer Science and Engineering
Course Code & Title: CSE3112 Digital Marketing
Name of the Faculty member with Department & Department: Dr. R. V. Venkatesh, ANP / SE

1. Student Management System
Develop a student management system where student details (name, ID, marks in multiple subjects) are stored in a dictionary. Implement functionality for adding, deleting, and updating student records, calculating average marks, and generating a report card with grades.

2. Expense Tracker with Data Visualization
Create an expense tracking application that takes user input for daily expenses and stores them in a list of dictionaries. Generate monthly summaries, categorize expenses (food, utilities, rent), and visualize the data using bar charts and pie charts.

3. Library Management System
Build a library management system using dictionaries and files. Implement features for adding, issuing, and returning books. Use file handling to store the list of available books and issued books, and include error handling for invalid inputs.

4. Weather Data Analyser
Develop a program that reads a file containing historical weather data (temperature, humidity, rainfall), lists data and calculates to perform operations like finding average temperature, finding days and plotting weather trends using a simple graph.

5. Inventory Management System
Create an inventory management system for a small store using lists and dictionaries. Allow adding, removing, and updating products. Implement functionality for tracking inventory levels, low stock alerts, and generating sales reports.

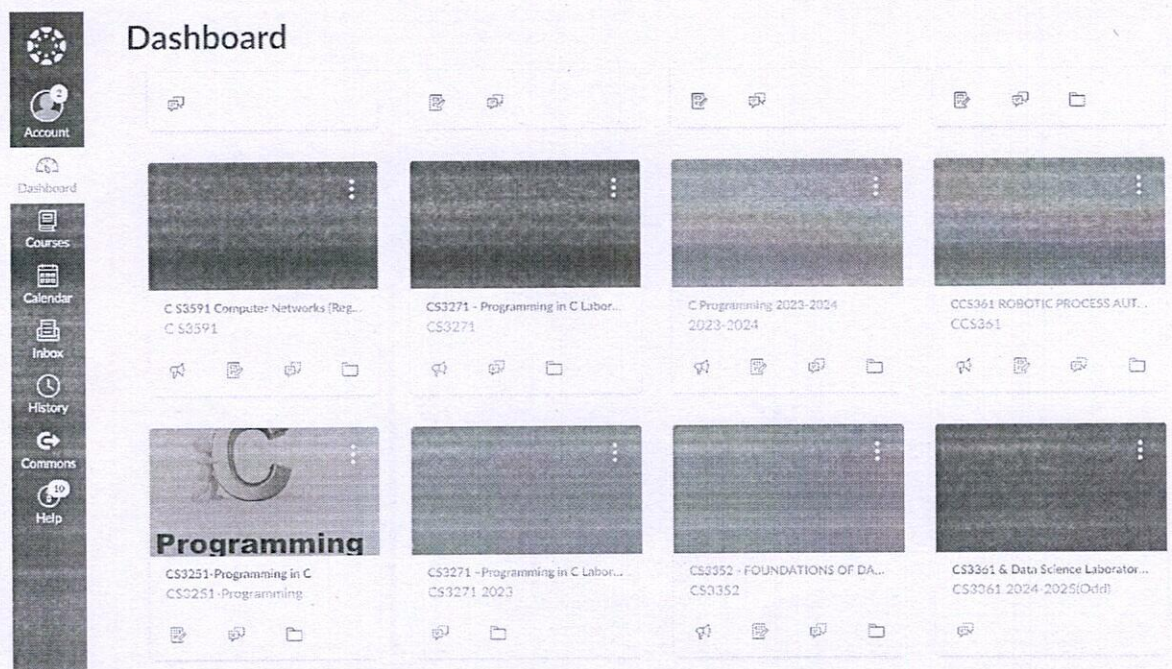
6. Travel Planner with Budget Optimization
Design a travel planner that takes user input for travel destinations, estimated costs, and duration. Use a dictionary to store destination details and calculate the total travel budget. Display a summary of all planned trips with the total budget.

9.9 Provide details of available learning resources

The availability of these video lectures ensures that students can revisit critical topics as needed, fostering a better understanding and preparation for their academic and professional journeys.

Sample : CCS335 Cloud Computing-Mrs.K.JeyaGeetha, AP/CSE

Topic	Link
Install virtual box and create virtual machine using flavour of Linux on top of windows	https://www.youtube.com/watch?v=l-RJNGdScR4
Install C Compiler in the virtual machine created using virtual box and execute simple programs	https://www.youtube.com/watch?v=-TgIj7o89qM
Install Hadoop single node cluster	https://www.youtube.com/watch?v=IrmzGJVyRY
Run simple application like word count in Hadoop framework	https://www.youtube.com/watch?v=zditMSrmSA
File Transfer between Host and VM	https://www.youtube.com/watch?v=leGRfc_NQ_w



2.1 Encouraging fast learners, assisting slow learners etc.

The Department follows standard, systematic and transparent procedures for the quality implementation of the bright and slow learners

- Expose students to New Ideas and Areas
- To improve students' ability to apply what they learn.
- To promote Self learning
- To enhance Learn by Doing Activity
- To improve the Creative ideas of the students.
- To Increase the number of opportunities for students to participate in class

ACTION TAKEN FOR ADVANCED LEARNERS

1. Real-Time Industry Project

To enhance industry readiness, advanced learners were engaged in real-time industry projects in collaboration with leading companies. These projects provided hands-on experience in software development, data analytics, machine learning, and full-stack development.

2. International Certification

Students were encouraged and supported to obtain international certifications from platforms like Coursera, Udacity, edX, and NPTEL.

3. Contest Training

Advanced learners were provided with structured training to participate in national and international coding contests such as Google Code TCS CodeVita, and Hackathons. The training sessions covered problem-solving strategies, data structures, algorithms, and coding best practices.

4. Technology Stack Training

Students received focused training on emerging technology stacks, including:

- MERN (MongoDB, Express.js, React.js, Node.js)
- MEAN (MongoDB, Express.js, Angular, Node.js)
- Python with Data Science and AI/ML
- Java Full-Stack Development

5. Value-Added Courses

Value-added courses were offered to complement the curriculum, ensuring students gained expertise in trending domains. The courses included:

- Artificial Intelligence and Deep Learning
- Internet of Things (IoT)
- Blockchain Technology
- Cyber Security and Ethical Hacking

6. Range of Online Courses

Students were encouraged to enroll in online courses from reputed platforms, such as:

- NPTEL and SWAYAM for government-recognized certifications
- Udemy and Coursera for skill-based learning
- Kaggle and DataCamp for specialized data science and AI training

7. Internship Opportunities

Students were placed in reputed organizations for internships, gaining practical exposure in:

- Software Development and IT Services
- Data Analytics and Machine Learning
- Cloud Computing and DevOps
- Cyber Security and Networking

8. Imparting Self-Learning Skills

Advanced learners were trained in self-learning methodologies through:

- Problem-based learning approaches
- Open-source project contributions
- Research paper reading and technical blogging

9. Organizing Technical Events

Students were actively involved in organizing and participating in technical events through professional societies such as:

- IE Student Chapter
- ACM Student Chapter
- CSI Student Chapter
- Google Developer Student Club

10. Coding Practice Monitored by Mentors

A structured coding practice regime was implemented under the guidance of mentors. Students practiced:

- Daily problem-solving on LeetCode, CodeChef, and HackerRank
- Weekly competitive coding contests

Actions Taken for Slow Learners

1. **Varying Instructional Techniques** – Implementing different teaching methodologies to cater to diverse learning needs.
2. **Range of Online Courses** – Encouraging students to take up online courses to strengthen their fundamentals.
3. **Improvement Tests** – Conducting periodic tests to assess progress and provide focused remediation.
4. **Special Coaching Classes** – Arranging additional coaching sessions to provide personalized guidance.
5. **Peer Tutoring** – Assigning academically strong students to mentor slow learners for better understanding.

6. **Interactive and Innovative Practices** – Using technology, real-life examples, and hands-on activities to make learning engaging.
7. **Parental Communication** – Keeping parents informed about students' academic performance and personal progress via SMS.
8. **Group-Level Assignments** – Encouraging teamwork and collaboration through structured group assignments.

Sample of Action Planned for A, B and C Category

RAMCO INSTITUTE OF TECHNOLOGY
 Approved by AICTE, New Delhi & Affiliated to Anna University
 Accredited by NAAC & An ISO 9001:2015 Certified Institute
 NBA Accredited UG Programs: CSE, EEE, ECE and MEECT
 Department of Computer Science and Engineering
 Academic Year: 2024-2025 (O&J Semester)
 Action Planned for A, B and C Category

Course Code & Title: CCS373 & Web Technologies
 Degree, Semester & Branch: V Semester B.E.CSE 'A' & 'B'

S.No	Category	Activity Planned
1	A	Complete specialization course 1. Build Website with HTML, JavaScript, AngularJS, and React Specialization- Board Initality 2. JavaScript Programming with React, Node & MongoDB Specialization - IBM Complete Project on full stack application development (MERN or MEAN)
2	B	Complete Courses on 1. HTML, CSS - FreeCode camp - Responsive web design 2. Javascript Course - https://www.udel.com/topics/course/javascript-beginners/ Create a multi-page web application using HTML, CSS, JavaScript & PHP • Completion of Special Classes • Two mark question test (Twice in a month) • Simple Web application for a given usecase - HTML, CSS & Javascript
3	C	

Faculty Incharge: *[Signature]* HOJ: *[Signature]*

Degree, Semester & Branch: V Semester B.E. CSE
 Course Code & Title: CCS373 - Foundation of Data Science
 Name of Faculty member: Dr.M.Suresh Babu AP/CSE

No	Category	Count	Plan
1	A (80%)	25	<ul style="list-style-type: none"> • Assign research projects where they need to explore new data science techniques - or apply existing techniques to datasets • Making the students to do interdisciplin-ary data science to gain practical experience. • Motivate students to participate in national and international data science competitions. • Encourage students to do online course and NPTEL courses. • Appreciate and giving gifts to the top 3 scorers in the DLT (subject) rankings of the class.
2	B (10% to 80%)	25	<ul style="list-style-type: none"> • Encourage times where students and discussions to promote active learning and engagement. • Create a weekly schedule with specific topics and objectives. And monitor their progress. • Conduct assessments to measure their progress and identify areas for improvement. • Make them study and write 2 two marks questions during the first 5 minutes of the class. • Ask to study and write answer for these questions of Part B per week in his/her home and submit it every Wednesday. • Plan to conduct teaching class.
3	C (0-10%)	12	

19. 3.6. Evidence of Addressing Sustainable Development Goals (SDG) 2.7 Solving Complex Engineering Problems Incorporating Sustainability Goals

Presenter: Mrs.K.Jeyageetha, AP/CSE

The presenter presented the Evidence of Addressing Sustainable Development Goals 2024-2025.

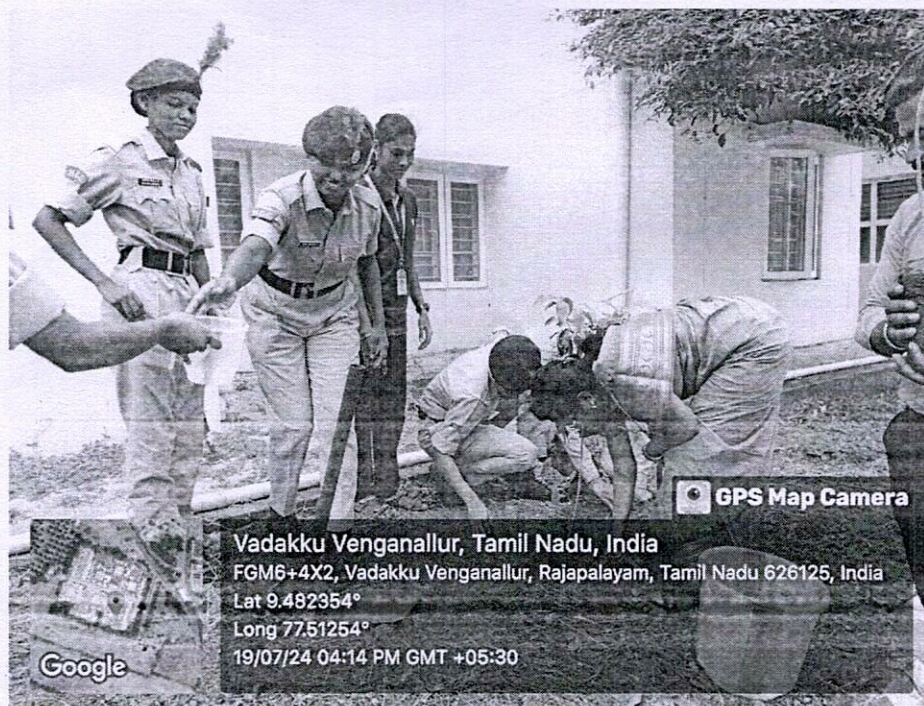
Goals:

1. No Poverty
2. Zero Hunger
3. Good Health and Well-being
4. Quality Education
5. Gender Equality
6. Clean Water and Sanitation
7. Affordable and Clean Energy
8. Decent Work and Economic Growth
9. Industry, Innovation, and Infrastructure
10. Reduced Inequalities

11. Sustainable Cities and Communities
12. Responsible Consumption and
13. Production
14. Climate Action
15. Life Below Water
16. Life on Land
17. Peace, Justice, and Strong Institutions
18. Partnerships for the Goals

Evidence of Addressing Sustainable Development Goals:

1. The library has been enhanced to provide quality education and support infrastructure development for inclusive learning.
Mapped SDGs:
 - SDG 4: Quality Education – Enhances access to quality educational resources.
 - SDG 9: Industry, Innovation, and Infrastructure – Strengthens infrastructure for sustainable development.
2. A decision was made to donate food to children in an orphanage and provide them with free health consultations, aligning with SDG 2: Zero Hunger by addressing food security and SDG 3: Good Health and Well-being by ensuring access to essential healthcare services.
3. Haridharshana M U, final-year CSE student, participated in a parade aimed at raising awareness about the dangers of drug use, aligning with the Sustainable Development Goals, particularly SDG 3: Good Health and Well-being, SDG 4: Quality Education, and SDG 16: Peace, Justice, and Strong Institutions.
4. Head of the Department Computer Science and Engineering, along with NCC cadets, planted trees on World Environment Day 2024, demonstrating a commitment to environmental conservation and aligning with SDG 13: Climate Action by taking proactive steps to combat climate change.



Capstone Project:

Title	Mapped SDG
Automated sensor model for poultry litter gas emissions management	Clean Water and Sanitation (SDG 6)
Multi Person Pose Estimation and Part Segmentation	Good Health and Well-Being (SDG 3)
Dynamic question generation based on user performance in adaptive exam	Quality Education (SDG 4)
LPG gas level and leakage detector	Affordable and Clean Energy (SDG 7)
Knowledge base for products	Industry, Innovation, and Infrastructure (SDG 9)
Optimize water management in piped and micro irrigation with AI to predict crop water needs, automated values and boost yield	Clean Water and Sanitation (SDG 6)
3D multiperson action recognition using machine learning technique	Good Health and Well-Being (SDG 3)
A Comprehensive system for image and video based pothole detection, damage level analysis with comparative	Sustainable Cities and Communities (SDG 11)
A Machine learning driven ERP Model for optimizing cooked food supply	Zero Hunger (SDG 2)
AQI insights and comparative study of PM 2.5 forecasting using machine learning and deep learning algorithms	Climate Action (SDG 13)
Resume parsing with ranking system	Decent Work and Economic Growth (SDG 8)

Fatigue state detection in mass gathering	Good Health and Well-Being (SDG 3)
Multimodal analysis of youtube content: Automated toxicity classification for audio transcripts and comments	Peace, Justice, and Strong Institutions (SDG 16)

Suggestions Given by Panel Members:

During the meeting, the panel members asked to collect NSS, NCC, NBO related data's.