



RAMCO INSTITUTE OF TECHNOLOGY

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NBA Accredited UG Programs: CSE, EEE, ECE and MECH

**Department of Computer Science and Engineering
Academic Year 2021 –2022 (Even)**

Minutes and Report on

**Program Assessment and Quality Improvement Committee (PAQIC)
Meeting-V
Assessment Period: March 2022to June 2022**

02.08.2022

Venue: CSE Seminar Hall



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Department of Computer Science and Engineering
Academic Year 2021 – 2022(Even Semester)

Date: 27.07.2022

Circular

The 5th Program Assessment and Quality Improvement Committee meeting to review the progress of 2021-2022 (Even Semester) was planned to be conducted on 28.07.2022 (Thursday) from 10.00 AM to 01.00 PM at CSE Seminar Hall. The 5th PAQIC meeting has been postponed since the faculty members and PAQIC members are involved in Anna University Central Valuation in Madurai. The date will be intimated later through mail.

All PA&QIC Members and Faculty Members are invited to attend the meeting.


Faculty Co-ordinator


HOD


Vice-Principal


Principal
2022

Copy to:

1. All PA&QIC Members and Faculty Members through Mail
2. File



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Department of Computer Science and Engineering
Academic Year 2021 – 2022(Even Semester)

Ref.: RIT/CSE/PA&QIC/05

Date:20.07.2022

Circular

The 5th Program Assessment and Quality Improvement Committee meeting to review the progress of 2021-2022 (Even Semester) is planned on **28.07.2022 (Thursday)** from **10.00 AM to 01.00 PM** at CSE Seminar Hall. All PA&QIC Members and Faculty Members are invited to attend the meeting. The agenda for the meeting is listed below:

Sl.No.	Topics to Present	Faculty In-charge	Time
1.	Welcome Address	Dr.M.Gomathy	10.00-10.10
2.	Review of Previous Meeting (3 rd PA&QIC)	Nayagam	AM
3.	Teach Learning Process:		
	a. Review of Curriculum Gap identification and the implementation of Content Beyond the syllabus	Mrs.P.Jothi Thilaga, AP/CSE & Dr.I. Gethzi Ahila Poornima, AP/CSE	10.10-10.15 AM
	b. Action taken for Bright Students and Slow learners	Mrs.M.Swarnasudha, AP(SG)/CSE	10.15-10.20 AM
	c. Curriculum Feedback Analysis and Action Taken	Mrs.P.Jothi Thilaga, AP/CSE	10.20-10.25 AM
	d. New Initiatives and innovative methods practiced and its implications (if any)	Mrs.M.Swarnasudha, AP(SG)/CSE	10.25-10-30 AM
	e. Quality of Students Project (Project to Paper/Patents if any)	Dr.M.Gomathy Nayagam & Mrs.B.Vijayalakshmi	10.30-10.35 AM
4.	Review the impact of Internship and Industry Training, and Analysis of Institute Industry Interaction	Mr.K.Vignesh Saravanan, AP/CSE	10.35-10.45 AM
5.	Attainment of COs, POs and PSOs with program effectiveness.	Mr.C.A.Yogaraja, Ap/CSE	10.45-10.55 AM
6.	Professional Societies Activities (New Professional Societies initiatives if any)	Dr.R.Venkatesh, AP(SG)/CSE	10.55-11.05 AM
7.	Outcome Analysis of Students Participation (including State/ National Level contest also), Online Courses and students achievements	Mrs.S.Manjula, AP/CSE & Dr.V.Anusuya, ASP/CSE	11.05-11.15 AM
8.	Training and Placement Statistics-Analysis	Mrs.M.Swarnasudha, AP(SG)/CSE	11.15-11.25 AM
9.	Outcome Analysis of Alumni Interaction.	Ms.G.Sakthipriya, AP/CSE	11.25-11.35 AM
10.	Outcome Analysis of Faculty	Ms.P.Jothithilaga,	11.35-11.45

	Participations, completion of Online Courses and achievement's.	AP/CSE & Dr.V.Anusya, ASP/CSE	AM
11.	Outcome analysis of Faculty Innovative practices and Faculty performance analysis Outcome analysis of adjunct faculty Research and Development Activities- Review a. No. of Publications (SCI, Scopus) b. Books and Books Chapters c. Ph.D. Guided/Awarded d. Funded Project Received e. Product Laboratory/Working Models/Research Laboratories Developed.	Mrs.B.Vijayalaskhmi, AP(SG)/CSE	11.45-11.55 AM
12.	Entrepreneurship Development Cell Activities and Career Guidance Cell Activities	Dr.R.Venkatesh, AP(SG)/CSE and Mr.C.A.Yogaraja, AP/CSE	11.55 AM - 12.05 Noon
13.	Continuous Improvement: a. Academic Audit and its action taken b. Improvement of Placements, Higher Studies and Entrepreneurship c. Quality of Students admitted.	Dr.M.Gomathy Nayagam, ASP/CSE	12.05- 12.15 PM
14.	Budget allocation and Utilization (2021-2022)	Dr.V.Anusuya, ASP/CSE	12.15-12.25 PM
15.	Feedback and Suggestions from Committee Members	-	12.25-12.35 PM
16.	Any other matters	-	12.35-12.45 PM
17.	Vote of Thanks	Ms.G.Sakthipriya, AP/CSE	12.45-12.55 PM

A.J. Anusuya
Faculty Co-ordinator 20/7/22

K. S. Srinivasan
HOD 20/7/22

B. Srinivasan
Vice-Principal

M. Srinivasan
Principal 20/7/22

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MINUTES OF MEETING



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Department of Computer Science and Engineering

Ref:RIT/Academics/CSE/PAQIC/2021-2022/02

Date:02.08.2022

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

The convener conducted a meeting with the Department PA & QIC Members on 02.08.2022 at 10.00 AM at CSE Seminar Hall and discussed the following points.

Members Present

No	DAC members	Designation and Company
1	Dr K Vijayalakshmi	Professor and Head Department of CSE Ramco Institute of Technology, Rajapalayam
2	Dr.M.GomathyNayagam	Associate Professor Department of CSE Ramco Institute of Technology, Rajapalayam
3	Dr R Venkatesh	Assistant Professor(SG) Department of CSE Ramco Institute of Technology, Rajapalayam
4	Mrs.M.SwarnaSudha	Assistant Professor(SG) Department of CSE Ramco Institute of Technology, Rajapalayam
6	Dr.P Suresh Kumar	Associate Professor Department of Mechanical Engineering, Ramco Institute of Technology,Rajapalayam
7	Mr.T.Chockalingam	Assistant Professor (SG) Department of Civil Ramco Institute of Technology,Rajapalayam
8	Mr.E.Thangam	Assistant Professor (SG) Department of EEE Ramco Institute of Technology, Rajapalayam



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SL.No.	Points to Discuss	Target Date	Responsibility
1.	Dr.M.GomathyNayagam, Assoc. Prof./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 (4th PA& QIC)- the queries were raised in last meeting for the Curriculum gap and its impact analysis, Bright and slow learners identification and its corresponding action, publishing more research papers in journals, inter disciplinary project by the final year students, share the knowledge of government opportunities to the students were discussed with action taken to the panel members by Dr.M.GomathyNayagam. The details are given in the sl.no. 1 of the detailed report.The review of curriculum gap identification process and conducted content beyond the syllabus to bridge the gap of the curriculum were discussed by Dr.IGethziAhilaPoornima, AP/CSE. The details are given in the sl.no. 2 in the detailed report.The action taken for bright and slow learners were discussed by Mrs.M.SwarnaSudha, AP(SG)/CSE. The details are given in the sl.no. 3 in the detailed report.The curriculum feedback analysis and the corresponding action take was discussed by Ms.P.JothiThilaga, AP/CSE. The details are given in the sl.no. 4 in the detailed report.The quality of students projects, the conversion status of students project to paper publication & patents and the suggestion were presented by Mrs.B.Vijayalakshmi, AP(SG)/CSE. The details are given in the sl.no. 4 in the detailed report.The review the impact of Internship	Continuous	HOD and All Faculties



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

	<p>sl.no.12 of the detailed report</p> <ul style="list-style-type: none"> The details of R&D activities and continuous improvements in Academic audit process, Improvements in placements, higher studies, entrepreneurships were presented by Ms.B.Vijayalakshmi, AP(SG)/CSE. The detailed R& activities and publications counts are given in sl.no13 of detailed report. The activities of EDC and Career Guidance Cell were presented by Mr.C.A.Yogaraja, AP/CSE and Dr.R.Venkatesh, AP(SG)/CSE. It is given in sl.no.13. The details of continuous improvement in POs & PSOs attainment, improvement in academic audit process, improvements in placement & higher studies, entrepreneurship and improvements in admissions were discussed by the Dr.M.GomathyNayagam, Associate Professor/CSE. The detailed reports in sl.no. 14. 		
3.	Meeting has been declared open for inviting suggestions for enhance the program assessment	-	-
4.	<p>Dr.P.Sureshkumar suggested that,</p> <p>Review of Curriculum Gap Identification:</p> <ul style="list-style-type: none"> Suggested to include the suggestions of the academicians, industry persons and alumni and the corresponding actions and its outcome to be shown in table. <p>Curriculum Feedback Analysis and Action Taken</p> <ul style="list-style-type: none"> Insisted to collect feedback from students after conducted content beyond syllabus and do analysis <p>Quality of Students Project (Project to Paper/ Patents if any)</p> <ul style="list-style-type: none"> Need to increase the publications, citations, patent and consultancy work. Apply copyright for the Power point presentation prepared for our courses by including the sources as references. <p>Review the impact of Internship and Industry Training, and Analysis of Institute Industry</p>	Continuous	HOD and All Faculties



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Department of Computer Science and Engineering

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

	<p>& Industry training and the suggestion for were presented by Mrs.K.VigneshSaravanan, AP/CSE. The details are given in the sl.no. 5 in the detailed report.</p> <ul style="list-style-type: none">• Mr.C.A.Yogaraja presented attainment of COs, POs and PSOs for 2020-2021. The details of CO, PO and PSO attainments are discussed in sl.no.6 of the detailed report.• Mr.K.VigneshSaravanan, AP/CSE presented the activities carried out by the Professional Societies IE(I)-CSE, CSI and RIT-Clustra and the initiatives taken for establishing new professional societies ACM and current member details. The more information about the professional activities and its PO& PSO mapping are givne in the sl.no. 7 of detailed report.• The details of students participation in district, state, national levels and their achievements are presented by Mrs.S.Manjula, AP/CSE. The sl.no.8 in detailed report shown the more information about student participation in district, state and national level and their achievements.• Analysis of training and placement statics of 2021-2022 were presented by Mrs.M.SwarnaSudha, AP(SG)/CSE and which is discussed in sl.no 9. Of the detailed report.• An outcome analysis of Alumni interactions were discussed by Ms.G.SakthiPriya, AP/CSE. It is given in the sl.no.10 of the detailed report.• Dr.V.Anusuya, Assoc. Prof/CSE presented the details of online courses completed by both students and faculty members. The sl.no11 of detailed report shown the online course details.• The details of innovative practices handled by the faulty members and the visibility analysis of faculty performance appraisal were presented by Mrs.B.Vijayalakshmi, AP(SG)/CSE. The detailed report is in		
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	<p>Interaction</p> <ul style="list-style-type: none"> • Visit all the MOUs signed companies and try for Internships / Placements • Increase more interactions with the MOUs signed companies and try for consultancy works. • The committee provided input to improve the number of MOUs signed <p>Attainment of COs, POs and PSOs with program effectiveness</p> <ul style="list-style-type: none"> • Curricular, extra-curricular activities can be mapped with POs/PSOs and it can be assessed <p>Professional Societies Activities</p> <ul style="list-style-type: none"> • The committee provided input to students and faculty need to attend the Industry Webinar. • The committee asked to relate the Event to PO <p>Outcome Analysis of R&D Activities:</p> <ul style="list-style-type: none"> • Need to increase the publications, citations, patent and consultancy work. • Apply copyright for the Power point presentation prepared for our courses by including the sources as references. <p>Continuous Improvement</p> <ul style="list-style-type: none"> • The panel members suggested to verify the various performance indicators mentioned in AICTE for assessing POs. • Also they suggested to improve the minimum salary package of the students will be placed in various reputed IT industry for the current batch <p>Mr. T.Chockalingam suggested that,</p> <p>Curriculum Feedback Analysis and Action Taken</p> <ul style="list-style-type: none"> • Insisted to specify the outcome of the content beyond syllabus conducted <p>Quality of Students Project (Project to Paper/Patents if any)</p> <ul style="list-style-type: none"> • Domain wise project attainment can also be prepared. 		
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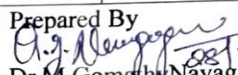
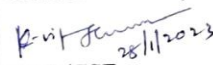

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	<p>Professional Societies Activities</p> <ul style="list-style-type: none"> The committee provided input to the students article need to send IE, CSI newsletter publications <p>Outcome Analysis of Students Online Courses</p> <ul style="list-style-type: none"> The Members suggested doing domain-specific courses in NPTEL <p>Outcome Analysis of Faculty Participation</p> <ul style="list-style-type: none"> Insisted to complete NPTEL Courses <p>Outcome Analysis of Entrepreneurship Cell and Career Guidance Cell Activities</p> <ul style="list-style-type: none"> Department Entrepreneurs can be improved <p>Mr.B.Kannan suggested that,</p> <p>Quality of Students Project (Project to Paper/Patents if any)</p> <ul style="list-style-type: none"> Project analysis can also be done for the Mini project and it can also be mapped and included for outcome attainment <p>Professional Societies Activities</p> <ul style="list-style-type: none"> The committee provided input to improve the students outside participation (Other College and Other State). <p>Outcome Analysis of Students Participation</p> <ul style="list-style-type: none"> Suggested to give appreciation amount for the student's accomplishments Recommended to organize intra college coding contest <p>Outcome Analysis of Entrepreneurship Cell and Career Guidance Cell Activities</p> <ul style="list-style-type: none"> More number activities and students can be participated 		
5.	The meeting ended with vote of thanks delivered by Dr. I Gethzi Ahila Poornima, AP/CSE	-	-
Prepared By  Dr. M. Gomathy Nayagam, Assoc. Prof./CSE	Recommended by  HOD/CSE	Approved by  Principal	



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Department of Computer Science and Engineering

Attendance

Ref:RIT/Academics/CSE/PAQIC/05

Date:02.08.2022

No	Members	Designation	Signature
1	Dr K Vijayalakshmi	Professor and Head Department of CSE Ramco Institute of Technology Rajapalayam	 2/8/2022
2	Dr.M.Gomathy Nayagam	Associate Professor Department of CSE Ramco Institute of Technology Rajapalayam	 2/8/2022
3	Dr R Venkatesh	Assistant Professor(SG) Department of CSE Ramco Institute of Technology Rajapalayam	
4	Mrs.M.Swarna Sudha	Assistant Professor(SG) Department of CSE Ramco Institute of Technology Rajapalayam	 2/8/2022
5	Mr B Kannan	Assistant Professor (SG) Department of ECE Ramco Institute of Technology Rajapalayam	 02/08/2022
6	Dr.P Suresh Kumar	Associate Professor Department of Mechanical Engineering, Ramco Institute of Technology, Rajapalayam	 2/8/2022
7	Mr.T.Chockalingam	Assistant Professor Department of Civil Ramco Institute of Technology Rajapalayam	 2/8/2022
8	Mr.E.Thangam	Assistant Professor (SG) Department of EEE Ramco Institute of Technology Rajapalayam	
9	Dr. R. Naganathan	Assistant Professor Department of English Ramco Institute of Technology Rajapalayam	 2/8/22

REPORT



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Department of Computer Science and Engineering

Academic Year 2021-2022 (Even Semester)

Minutes of Meeting- 5th 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** : 02.08.2022 & 10.00 AM to 01.00 PM
- Reference** : RIT/CSE/PA&QIC/05
- 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.Gomathy Nayagam	Associate Professor/CSE	Member
3.	Mrs.M.Swarna Sudha	Assistant Professor/CSE	Member
4.	Mr.T.Chockalingam	Assistant Professor/ Civil	Member
5.	Mr B Kannan	Assistant Professor (SG)/ ECE	Member
6.	Dr.P Suresh Kumar	Associate Professor / Mechanical	Member
7.	Dr. R. Naganathan	Assistant Professor/ English	Member
8.	Dr.V.Anusuya	Associate Professor/ CSE	Representative

9.	Mrs.B.Vijayalakshmi	Assistant Professor(SG)/CSE	Representative
10.	Ms.P.Jothi Thilaga	Assistant Professor/CSE	Representative
11.	Ms.S.Manjula	Assistant Professor/CSE	Representative
12.	Mr.C.A.Yogaraja	Assistant Professor/CSE	Representative
13.	Mr.K.Vignesh Saravanan	Assistant Professor/CSE	Representative
14.	Ms.G.Sakthi Priya	Assistant Professor/CSE	Representative
15.	Dr.S.Erana Veerappa Dinesh	Assistant Professor/CSE	Representative
16.	Dr.K.Vivekrabnson	Assistant Professor/CSE	Representative
17.	Ms.G.Sankari	Assistant Professor/CSE	Representative
18.	Ms.Shruthi Thangaraj	Assistant Professor/CSE	Representative

Leave/ On-duty:

Sl.No.	Name of the Faculty Members	Designation	PAQIC	Leave/ On-duty
1.	Dr R Venkatesh	Assistant Professor(SG)/CSE	Member	Leave
2.	Mr.E.Thangam	Assistant Professor (SG)/EEE	Member	Leave
3.	Mrs.N.Nithya	Assistant Professor/CSE	Representative	Leave

Dr.M.Gomathy Nayagam, Associate Professor/CSE, welcomed all the members of PA&QIC and briefed the vision, mission of the department and meeting agenda. The following are the agenda of 5th PA&QIC Meeting

Meeting Agenda:

Sl.No	Topics to Present	Faculty In-charge	Time
1.	Welcome Address	Dr.M.GomathyNayagam	10.00-10.10 AM
2.	Review of Previous Meeting (4 th PA&QIC)		
3.	Teach Learning Process:		

	a. Review of Curriculum Gap identification and the implementation of Content Beyond the syllabus	Mrs.P.Jothi Thilaga, AP/CSE & Dr.I.Gethzi Ahila Poornima, AP/CSE	10.10-10.15 AM
	b. Action taken for Bright Students and Slow learners	Mrs.M.Swarnasudha, AP(SG)/CSE	10.15-10.20 AM
	c. Curriculum Feedback Analysis and Action Taken	Mrs.P.Jothi Thilaga, AP/CSE	10.20-10.25 AM
	d. New Initiatives and innovative methods practiced and its implications (if any)	Mrs.M.Swarnasudha, AP(SG)/CSE	10.25-10-30 AM
	e. Quality of Students Project (Project to Paper/Patents if any)	Dr.M.Gomathy Nayagam & Mrs.B.Vijayalakshmi	10.30-10.35 AM
4.	Review the impact of Internship and Industry Training, and Analysis of Institute Industry Interaction	Mr.K.VigneshSaravanan , AP/CSE	10.35-10.45 AM
5.	Attainment of COs, POs and PSOs with program effectiveness.	Mr.C.A.Yogaraja, Ap/CSE	10.45-10.55 AM
6.	Professional Societies Activities (New Professional Societies initiatives if any)	Dr.R.Venkatesh, AP(SG)/CSE	10.55-11.05 AM
7.	Outcome Analysis of Students Participation (including State/ National Level contest also), Online Courses and students achievements	Mrs.S.Manjula, AP/CSE & Dr.V.Anusuya, ASP/CSE	11.05-11.15 AM
8.	Training and Placement Statistics- Analysis	Mrs.M.Swarnasudha, AP(SG)/CSE	11.15-11.25 AM
9.	Outcome Analysis of Alumni Interaction.	Ms.G.Sakthipriya, AP/CSE	11.25-11.35 AM
10.	Outcome Analysis of Faculty Participations, completion of Online Courses and achievements.	Ms.P.Jothithilaga, AP/CSE & Dr.V.Anusya, ASP/CSE	11.35-11.45 AM
11.	Outcome analysis of Faculty Innovative practices and Faculty performance analysis Outcome analysis of adjunct faculty Research and Development Activities- Review a. No. of Publications (SCI, Scopus) b. Books and Books Chapters c. Ph.D. Guided/Awarded d. Funded Project Received e. Product Laboratory/Working Models/Research Laboratories Developed.	Mrs.B.Vijayalaskhmi, AP(SG)/CSE	11.45-11.55 AM
12.	Entrepreneurship Development Cell Activities and Career Guidance Cell	Dr.R.Venkatesh, AP(SG)/CSE and	11.55 AM - 12.05 Noon

	Activities	Mr.C.A.Yogaraja, AP/CSE	
13.	Continuous Improvement: a. Academic Audit and its action taken b. Improvement of Placements, Higher Studies and Entrepreneurship c. Quality of Students admitted.	Dr.M.GomathyNayagam , ASP/CSE	12.05- 12.15 PM
14.	Budget allocation and Utilization (2021-2022)	Dr.V.Anusuya, ASP/CSE	12.15-12.25 PM
15.	Feedback and Suggestions from Committee Members	-	12.25-12.35 PM
16.	Any other matters	-	12.35-12.45 PM
17.	Vote of Thanks	Dr.I.Gethzi Ahila Poornima, AP/CSE	12.45-12.55 PM

1. Review of Previous Meeting (4th PA&QIC)

Dr.M.Gomathy Nayagam, Associate Professor presented the progress and the corresponding action taken for the suggestion given in the 4th PA&QIC meeting held on 25.02.2022. The action taken was briefed which is shown in the following Table.1. by him and the same was presented in detail by the corresponding process owner.

Table.1. Suggestion given in 4th PQ&QIC Meeting and its Corresponding Action Taken

Suggestions	Action Taken
Present the action taken for the curriculum gap and its impact.	Will present in Criteria 2 by Mrs.P.Jothi Thilaga, AP/CSE & Dr.I. Gethzi Ahila Poornima, AP/CSE
Action taken for Bright Students and Slow learners: Students' self-learning measurement and outcome to be included GATE question test to be conduct for testing the subject knowledge of the students Alumni feedback to be included in conduct of GATE	Will present in Criteria 2 by Mrs.M.Swarnasudha, AP(SG)/CSE
To publish more journal from students project.	Published 07 publication
Introduce at least 1 or 2 inter disciplinary final projects.	NA
Provide the knowledge of Government opportunities to the students	Organized 1 program through Dept. Career Guidance Cell (Student orientation program on Govt. Job Opportunities for Engineering Students- will present in RIT-Clustra and

The following Fig.1. shows the glimpses of reviewing previous PA&QIC meeting presentation.



Fig. 1. Glimpses of reviewing previous PA&QIC Meeting Presentation

Suggestion & comments by PA&QIC Members:

Nil

2. Teaching Learning Process

a. Review of Curriculum Gap identification and the implementation of Content Beyond the syllabus

Presenter: Dr.I.Gethzi Ahila Poornima, Assistant Professor/CSE

Briefed the following new initiative taken for identifying the Curriculum gap

- Shared the syllabus and PEOs, PSOs to the stake holders (Industry Experts/ Academicians (IITs, NITs Professors), Alumni, Faculty Members, Parents & Students and Received the feedback for identifying curriculum gap. The Fig.2. shows the sample E-mail received from the stake holders for identifying curriculum gap.

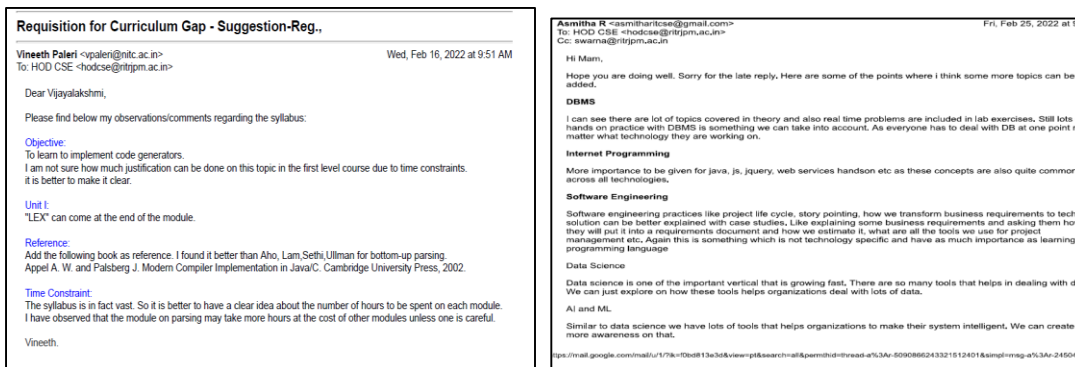


Fig.2. Sample E-mail received from Stake holders for identifying curriculum gap

- Based on the feedback received from the stakeholders, content beyond the syllabus was fixed for the various courses in 2021-2022(Even Sem). The following Table.2. shows the various content beyond syllabus suggested for the various courses by the stake holders and the corresponding actions taken. Fig.3. shows the sample glimpse of content beyond the syllabus for the course CS8601-Mobile Computing and CS8493-Operating System.

Table.2. Various Content Beyond syllabus suggested by Stakeholders

Name of the Subject	Suggestions By	Action Taken
GE8076 Professional Ethics in Engineering	Dr.S.Srinivasan Assistant Professor, IIT, Kharagpur	Conducted CBS on "Intellectual Property Rights"
CS3251 - Programming in C	Lakshmi Priya, Ramco systems, Chennai. Mukesh R, L& T Technologies	Conducted CBS on "Graphics in C and creating own header file"
CS8601 Mobile Computing	Mr.S.Balamurugan, Assistant Consultant, TCS & Dr.K.Somasundaram, Professor/ CSE, Saveetha Engineering College	Conducted a CBS on "Broadband wireless System - MIMO channel model"
CS8602 Compiler Design	VineethPaleri, Professor, Department of Computer Science and Engineering National Institute of Technology Calicut &Mr.M.Sivaguru, Senior Associate, Cognizant	Conducted CBS on "ML & Ai Based Compiler - Glow, MILR, EEL"
CS8651 Internet Programming	Mr.Nivek TN Senior Software Engineer Cognizant	Conducted the suggested

	Technology Solutions & Ms.Archuna, IT Analyst - TCS	topic as a Content Beyond Syllabus
CS8493-Operating System	Mythili Vutukuru Associate Professor Department of computer science and Engg IIT Bombay & Rathnevel Jeevaraj, Regional Manager, Marketing Automation and Platform, Grab, Malaysia	Arranged Guest Lecture on "Usage of Linux Commands in real world projects & what happens around the marketing automation industry" on 30 July 2022
CS8451 – Design and Analysis of Algorithms	Dr.C.Mala, Professor, NIT, Trichy	Conducted a content Beyond syllabus on "KMP String Matching Algorithms"
CS8494 – Software Engineering	Dr. R. Kesavamoorthy M.E., M.B.A., Ph.D. Associate Professor Department of CSE CMR Institute of Technology, Bangalore	Conducted Guest Lecture on "Agile Process – Scrum"
Mr.R.Venkatesh	CS8492 – Database Management System	Introduction to advanced databases: Multimedia databases, deductive databases.

Dr.K.Vijayalakshmi Dr.V.Anusuya &Ms.P.JothiThilaga	CS8391 Data Structures	Industrial Applications of Data Structures
Mrs.N.Nithya	CS8392 Object Oriented Programming	Java Spring Boot Micro services
Mrs.M.SwarnaSudha	CS8591 Computer Networks	Sub netting and Routing
Mrs.B.Vijayalakshmi &Dr. I. GethziAhilaPoornima	CS8392 Object Oriented Programming	Java Collections



Fig.3. Sample glimpses of content beyond the syllabus for the course CS8601-Mobile Computing and CS8493-Operating System.

Suggestion & comments by PA&QIC Members:

- Members suggested that the corresponding action taken for the suggestion given by the various stake holders presented in the table format.

b. Action taken for Bright Students and Slow learners

Presenter:Mrs.M.Swarna Sudha, AP(SG)/CSE

Shared the standard, systematic and transparent procedures for the quality implementation of the Teaching Learning process with following criteria's:

- Identify the approaches to distinguish bright and slow learners
- Get feedback from students about the self-learning
- Self-learning should be encouraged from the first year onwards

Action taken for Advanced learners:

- Get the opportunity to work on a project in the industry.
- Participate in national interdisciplinary projects.

- Professional societies encouraged students to organize and participate in technical events.
- Act as Resource person & coordinators for conduct of professional societies' activities
- Contest Training programs will be conducted for students to improve the coding ability
- Pursue online course from various eminent foreign universities like MIT, Oxford etc.,
- Pursue Internship at various reputed industries.

The following Fig.4. ,5,6,7, shows the advanced learners get the opportunity to work on a project in the industry like Raja Nursery Industry Project, GeonLogix Industry Projects, participation in National Level inter-disciplinary projects-self driving car and encouraged the students to organize and participate in the various technical events professional societies.

Team Name	Student Name
Team I	GOPIYK J
	BOWYAAL
	KAMINI K
	BALAMURALIKRISHNA R N
Team II	DIVYAMK
	VENESHAL
Team III	SARAVANA JOTHI G
	RAJALAKSHMI R U
	SARUMATHI M

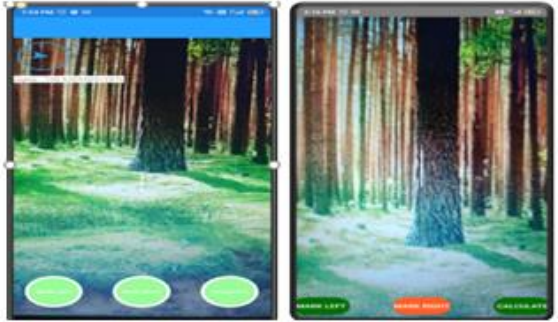


Fig.4. Get the opportunity to work on a project in the industry.-Raja Nursery Industry Project

S.no	Name of the student
1	R HARSHA, II CSE
2	M JOTHI LINGA PANDIAN, II CSE
3	S SHANMUGA PRIYA, II CSE
4	J PARANTHAMAN, II CSE
5	R HARSHA, II CSE

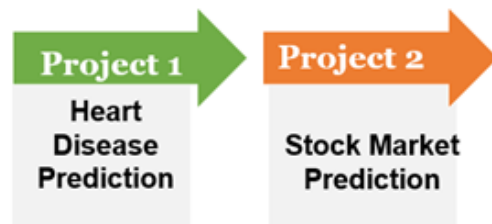


Fig.5. Participate in national interdisciplinary projects-GeonsLogix Industry Project

S.no	Name of the student
1	SARAVNAKUMAR, III CSE
2	SIVAKUMAR II CSE
3	VISWAJITH SAIRAM, III CSE
4	SATHISH KUMAR II CSE



Fig.6. Participate in national interdisciplinary projects- Self Driving Car Challenge



Fig.7. Professional societies encouraged students to organize and participate in technical events.

Contest Training will be given for students to improve the coding ability

- **K.M.Architha I CSE (11th rank), M.MakeshSelvalakshmi I (50th Rank) in NCAT - Category I and K.Muthukumar II CSE (27th rank) in NCAT - Category II, G.JayaDharsini III CSE (4th Rank) in NCAT - Category III secured All India rank in National Creativity Aptitude Test 2022 conducted by IIT Delhi.**
- **R.N.BalaMurali Krishna, II CSE won first prize with cash award of Rs.3000/- in Innovative Project contest 2K22 organized by IPC & IIC-KLN college of Engineering held on 27.05.2022.**
- **G.JayaDharshini III CSE completed Google Hash Code Qualification round and secured rank 2658(Globally) and Harsha R, Muthu Brijesh R, Muthu Kumar K, II CSE completed Google Hash Code Qualification round and secured rank 6631(Globally).**

The following Fig.8. shows the sample certificate of contest participated, sample online course certificates and internship pursued by the advanced learners.



Fig.8. Sample Certificates of Contest, online courses completed and internship participated by the Advanced Learners

The Fig.9. shows the sample case study for advanced learners.



HARSHA R

2nd year CSE student

EDUCATION

B.E CSE | Ramco Institute Of Technology
2020 – 2024
CGPA: 9.30
Currently pursuing IV semester.

H.S.C (12th) | Sri Vi Lions Matric Hr Sec School
2019 – 2020
Percentage: 77.16 % and Secured 100% marks in Computer Science

S.S.L.C (10th) | Sri Vi Lions Matric Hr Sec School
2017-2018
Percentage: 87%

ACTIVITIES

Internships and Industrial Visits:

- **Machine Learning** internship at **Geons Logix**.
- **Data Analyst** virtual internship at **EntryLevel**
- Completed **Amazon Web Services (AWS) Solutions Architect Virtual Experience Program** at **Forage**
- Attended Industrial Visit at **RAJAPALAYAM MILLS**.

Projects Accomplished:

- **Heart Disease Prediction, TCS Stock Prediction, Startup profit Prediction** projects with **Machine Learning** (in Python).
- **Student Result Management System** web application with **HTML, CSS, JS, PHP** and **MS SQL** as database.
- **Telephone Database [CLI]** in python.
- **Exam Results portal** in C.
- **A basic Encryption/Decryption GUI application** in **JAVA**.

Contests:

- participated in the **TopCoders'21** organized by **E-Box Colleges**.
- **The Global youth icon challenge** conducted by **Ureka Education Group**
- participated in the **code battle** contest conducted by **GeeksforGeeks**.
- Participated in **Google Hash Code 2022, Kick Start 2022**.
- Participated in **Uber HackTag2.0** as Team.

Workshops:

- Attended a **Workshop on Data Science and Machine Learning** from **CEG Tech Forum**.
- Completed **NEW INDIA LEARNATHON 2021** organized by **ICT ACADEMY**
- Attended a 3-day short term Training Program on **3DPRINTING TECHNOLOGY AND ITS INDUSTRIAL APPLICATION** offered by **MEDSBY HEALTHCARE AND ENGINEERING SOLUTIONS**.

Online Courses:

- Completed **SQL for Data Science** course offered by **UCDAVIS** from **Coursera**
- Completed **Python Coding** course offered by **Ureka Education Group**
- Completed **Intro to Machine Learning and Intermediate Machine Learning** from **Kaggle**
- Completed **IMAGE PROCESSING ONRAMP** offered by **MATLAB**

Fig.9. Sample Case study for Advanced Learners

Action taken for slower learners

- Special revision class will be conducted for all the slow learners.
- To make the slow learners interactive during the class several innovative practice like Peer learning, Role play Technical Connection Game, Think Pair Share Etc..
- Improvement tests were conducted for slow learners to improve their performance in the test.
- Providing self-learning materials
- Frequently varying instructional techniques in the classroom itself
- Providing peer tutoring by high ability classmates
- Increasing the number of opportunities for students to participate in class
- Mentoring by faculty mentor

Special coaching was conducted for a slow learner by splitting class into two group .Different timing was used for holsters' and Day scholars. The following Fig.10 shows schedule of the special class conducted.

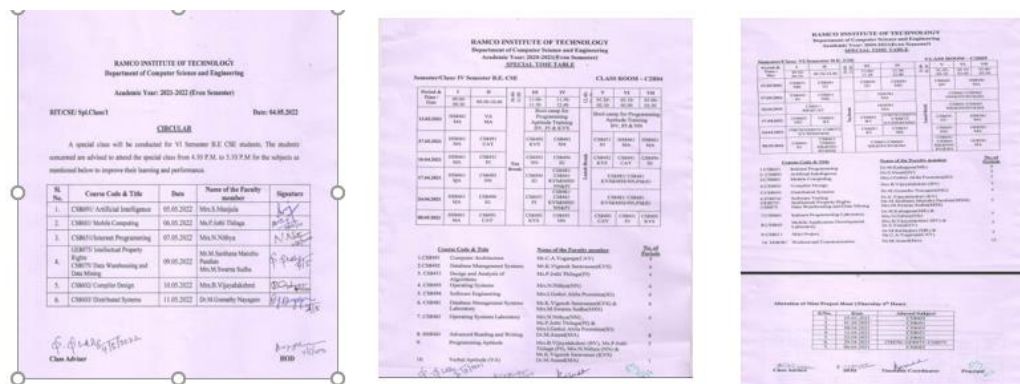


Fig.10. Special Coaching Class Schedule for Slow Learners.

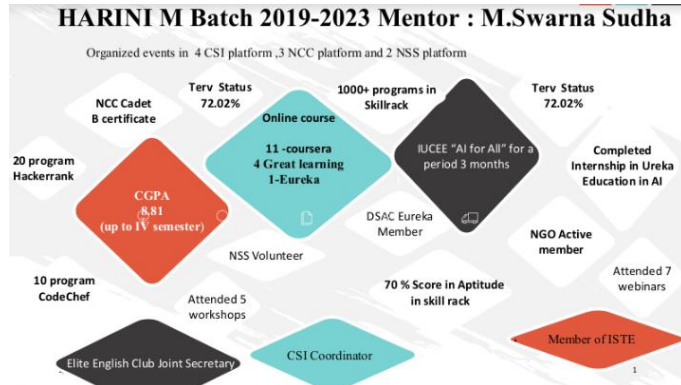
The practice of effective and meaningful teaching can benefit immensely for slow learners when teachers apply new or different innovative approaches and technologies. The following Fig.11. shows the sample peer learning.



Fig.11. Sample glimpse of Peer Learning

Mentors meet their respective students; record their details like participation in Cocurricular/Extra-curricular activities in the student mentor Book. After each assessment, the

Mentors, Class Advisors and the Head of Department counsel the identified slow learners. The sample mentor meeting glimpses are shown in Fig.12. and sample case study for the slow learner is shown in Fig.13.



RAMCO INSTITUTE OF TECHNOLOGY
Department of Computer Science and Engineering
Class Advisors for the Academic Year 2021-2022

S.No.	Year	Class and Section	Class Advisor	Student Mentor
1.	I	CSE	Ms.P.Jothi Thilaga	Dr.S.Vimal Ms.P.Jothi Thilaga
	I	AI & DS	Mrs.S.Manjula	Dr.V.Anusuya Mrs.S.Manjula
2.	II	CSE	Ms.G.Sakthi Priya	Mr.R.Venkatesh Ms.G.Sakthi Priya Dr.I.Gethzi Ahila Poornima
3.	III	CSE	Mrs.M.Swarna Sudha	Mrs.M.Swarna Sudha Mrs.N.Nithya Mr.C.A.Yogaraja
4.	IV	CSE	Mrs.B.Vijayalakshmi	Dr.M.Gomathy Nayagam Mrs.B.Vijayalakshmi Mr.K.Vignesh Saravanan

RAMCO INSTITUTE OF TECHNOLOGY
Department of Computer Science and Engineering
Academic Year: 2021-2022 (Odd Semester)
Minutes of Mentor meeting-1

Class: IV Semester, B.E. CSE **Date & Time: 27.7.2021 & 97.00 PM**

Members present:
Mentor Name: Mr.C.A.Yogaraja
Members present: (15/17)
Gethzi Ahila Poornima, Dharmana R, Dinesh Kumar M, Krishna K, Lakshmi Jayagan A, Mathuraman N, Pradeep A, Suresh R, Srinivasan K, Swathy Saravanan, Tharini K, Ulaganathan T, Vaishnavi V S, Vidhya V

Absent:
Krishna Srinivas P, Ulagan C

Minutes:

- Welcomed the students for the first mentor meeting
- Asked students about the status and details of LMS for all courses.
- Enquired about the coverage of syllabus and the understanding level of students in each subject
- Advised the students to do take class notes for all courses
- Asked students to practice the programming concepts through online or standalone compilers then and there.
- Enquired about the effectiveness of the online classes.
- Insisted the students to give more importance to tutorials and assignments.
- Advised the students to do **Lab, course and video** regularly apart from class timings.
- Informed about the assessment test and asked them to be ready in upcoming week
- Advised the students not to be absent for online class

Online Course Completed list:

Sophiana k. 953620104029@ritrajm.ac.in

- Inad AB Network Academy - Network Transformation 101
- Python Data Structures
- Introduction to Cybersecurity Tools & Cyber Attacks
- Create Your First Web App with Python and Flask

Vidhya. V 953620104045@ritrajm.ac.in

- AWS Fundamentals: Going Cloud-Native
- AI For Everyone
- AWS Fundamentals: Building Serverless Applications
- Building Digital Media using Graphic Design in Google Slides
- Introduction to HTML5

Prepared by
C.A.Yogaraja

RAMCO INSTITUTE OF TECHNOLOGY
Department of Computer Science and Engineering
Academic Year: 2021-22 (Even Semester)
SECOND YEAR STUDENT MENTOR SYSTEM

S.No.	Register Number	Name of the Student
Name of the Mentor: Dr.K.VIJAYALAKSHMI		
1.	953620104027	KUMAR M
2.	953620104050	SIVAKUMAR M
Name of the Mentor: Dr.R.VENKATESH		
3.	953620104001	AANANDA GANESAN R
4.	953620104006	BOWYAA
5.	953620104012	GOPIY K J
6.	953620104016	IJAAS AHAMAD M
7.	953620104021	JOTHI LINGA PANDIAN M
8.	953620104024	KARUNYA V
9.	953620104029	MUGESH M
10.	953620104030	MUTHU BRUJESH R
11.	953620104032	NISHA SHREE M
12.	953620104033	PARANTHAMAN J
13.	953620104034	PAVITHRA K
14.	953620104035	POOJA LAKSHMI T
15.	953620104038	RAGAVI V G
16.	953620104040	RAJALAKSHMI
17.	953620104042	SARAVANA JOTHI G
18.	953620104047	SHAKTHI S
19.	953620104049	SIVAGURUNATHAN G
20.	953620104051	SIVAKUMAR P
21.	953620104059	VINO A
22.	953620104302	ILAYA BHARATHI S
23.	953620104306	SUBRAMANI LOKESH
Name of the Mentor: Dr. I. GETHZI ABILA POORNIMA		
24.	953620104004	BALAMBURAL KRISHNA R N
25.	953620104005	BHUVANESHWARI S
26.	953620104009	DIVYA M K
27.	953620104010	GAYATHRI DEVI S
28.	953620104013	GOWTHAM KARTHIKEYAN M
29.	953620104014	HARINISRI VALLI V
30.	953620104019	JOE ALAN R S
31.	953620104022	KAMINI K
32.	953620104023	KARTHIKEYAN B
33.	953620104026	SYED ASLAM K

Fig.12. Sample Mentor Meeting Circular and minutes of meeting

Placed in Ramco systems

KRISHNA SRINIVAS

Krishnasrinivas2k1@gmail.com

+91 8667323642

TECHNICAL SKILLS

- Languagesknown : C, PYTHON, JAVA
- ScriptingLanguages : HTML, CSS, JavaScript
- Databasesknown : MySQL

ONLINE COURSES

- Introduction to Blockchain from Coursera

WEBINARS ATTENDED

- Layer 2 Scaling Solution from Consenys
- Blockchain Adoption, Management and Application from BrightTalk.

INPLANT TRAININGS & INDUSTRIAL VISITS

- Visited Rajapalayam Mills in 2019 as a part of our industrial visit.
- Visited Ramco cements in 2021
- Visited ZYPLE Software System Private Limited, Bengaluru in 2022

INTERNSHIP

- Design and Digital Marketing Intern at Dudeme Designs LLP.

PERSONAL TRAITS

- Quick learner
- Good at Interpersonal Skills



Fig.13. Sample Case study for Slow Learners

Also explained the best practice in the department

- Industrial Guest Lecture
- Online Course as a part of Subject
- Additional Experiment
- Mini Project
- Seminar
- Project Proposal
- Assignment Presentation
- Actively Participating in Contest
- Virtual Lab
- Morning presentation Aptitude Presentation

Department take steps for developing the Imparting Self Learning Skills among students

- Assignment Presentation in all courses
- Encourage the students to take Seminar

- Encourage the students to do Massive Online Open Courses Online course
- Student Centred Innovative practises followed in the class room
- Individual projects gave for the students to enhance their self-learning
- Share learning with peers and mentors.
- Encourage the students to use Learning Apps and Software
- Work through practice questions and reinforce what is learned in the classroom

Case studies of students Imparting Self Learning Skills

- Mr. Harsha from II CSE doing the Geons Logic Project by self-learning sklearn, seaborn and matplotlib
- Mr.Dhiraj from II CSE doing Lunchin project by self-learning HTML,CSS,PHP Chat blot
- Mr. JothiLingapandian from II CSE won award Hackathon IITK Cybersecurity Tools
- Ms. Jayadharshini from III CSE participate in Google Hash code global and won the rank
- .M.Architha I CSE received award certificate on 22 June 2022 IIT PALS valedictory function for securing I prize in Quiz conducted during industry speaks- Digital-Building and Scaling Enterprise grade machine learning system session on 16 Nov., 2021 organized by IIT PALS, Chennai.

c. Curriculum Feedback Analysis and Action Taken

Presenter: Ms. P. Jothi Thilaga, AP/CSE

Briefed the feedback collected from the both internal and external stakeholders (Industry experts, Academician, Students, Parents and Recruiters) periodically. Based on the feedback and suggestion from the stake holders, the following actions were taken and which is shown in the Table.3 and Table.4.the number of one credit course, guest lecture, workshop/seminars/webinars, online course and internship carried out by the students in order to fulfil the curriculum gap.

Table.3. Feedbacks from stake holders and corresponding action taken

Stake holders	Feedbacks	Action Taken
Parents	<ul style="list-style-type: none"> • Communication skills training • Entrepreneurship Training 	<ul style="list-style-type: none"> • Mock Interview, Training
Recruiters/ Employers	<ul style="list-style-type: none"> • Additional Training on programming skills and communication skills • To be well trained in specific programming language • SQL • Java 	<ul style="list-style-type: none"> • Placement Training – Programming & General Aptitude, C, SQL, Java

Industry Persons/ Academician	<ul style="list-style-type: none"> • Intercollege competition • Recent trends in Cloud Computing 	<ul style="list-style-type: none"> • Guest Lecture on Google App Engine
Students	<ul style="list-style-type: none"> • Aptitude Training • Training on Programming languages – C, Java 	<ul style="list-style-type: none"> • Placement Training – Programming & General Aptitude, C, SQL, Java • Company Specific Trainings
Faculty Members	<ul style="list-style-type: none"> • Google App Engine 	<ul style="list-style-type: none"> • Guest Lecture on Google App Engine
DAC Members	<ul style="list-style-type: none"> • Develop projects using Open Source & Develop Framework projects 	<ul style="list-style-type: none"> • Five Framework (Django, Spring, Flutter) projects were completed • II & III Year students doing Projects on REST Language
Alumni	<ul style="list-style-type: none"> • Full stack development • ReactJS, AngularJS, NodeJS, Python, MongoDB, Postgresql • DevOps course • Data Science 	<ul style="list-style-type: none"> • VAC – Data science Course • VAC - MERN Stack

Table.4. Summary of Events organized for fulfilling the curriculum gap

Academic Year	One-credit Value Added Course	Guest Lectures	Workshop/ Seminars / Webinars	Online Courses done by Students	Internship
2021-2022	-	6	12	88 - Courses 70 - Students	17-Companies 90- Students

The following Fig. 14. Shows the sample glimpse of organized events



Fig.14. Sample glimpses of organized events for fulfilling the curriculum gap

The details of the events organized as given below:

- Webinar on “Introduction to ReactJS with Git and Surge” on 11.09.2021 - 100 Students participated
- Webinar on “Wings to Career Aspirations” on 16.08.2021 - 80 Students participated
- Webinar on “Fields in CS” on 26.11.2021 - 42 Students participated
- Webinar on “The Future of app industry” on 09.12.2021 - All II, III and IV year.
- CSI Chapter Inauguration Motivational Talk and Guest Lecture on “Entrepreneurship” on 24.09.2021 - 120 Students participated
- Special Lecture on “Gate Awareness Program” on 25.01.2022 - 60 Students participated
- Virtual placement talk on “Guidelines for online interview Success” on 09.07.2021 – 55 Students participated.
- Talk on “Tricks to crack EmbedUR” on 10.07.2021 – 65 Students participated
- Placement talk on “How to unlock the Zoho Drive” on 15.08.2021 – 100 Students participated.
- Placement talk on “How to tackle Zoho Drive” on 18.08.2021 – 35 Students participated.
- Technical session on “Importance of Data structures and Algorithms” on 19.09.2021 – 45 Students participated
- Placement talk on “How to grab a job in Accenture” on 09.10.2021– III CSE Students participated.
- Mock interview for 16 students of the 2019-2023 batch from 27.01.2022 to till date

Suggestion & comments by PA&QIC Members:

- Insisted to specify the outcome of the content beyond syllabus conducted.
- Insisted to collect feedback from students after conducted content beyond syllabus and do analysis.

d. Quality of Students Project (Project to Paper/Patents if any)

Presenter: Mrs.B. Vijayalakshmi, AP(SG)/CSE

Presented the quality of students project to the panel members and discussed the following inferences

- Total number of projects done by the students during the academic year 2021-2022 -35

- Out of 35 projects, 5- Industry projects (internship), 02- Product designed,
- Out of 02 product design project, 01- sponsored by TNSCST.
- Industry internship projects were offered by Kumaran Systems, Stradegi Solutions, and Vuram Technologies.
- Project guided by Adjunct faculty Dr.S.Arumugam
- Rubrics fixed for project evaluations for the each review.
- 17- Projects communicated for conference presentation and publications
- Out of 35 projects, 14% of projects are attained PSO1, 17% projects are attained PSO2, 61% projects are attained PSO3 and 8% projects are attained PSO2 & PSO3. It is shown in Fig.15. and Fig.16,

Project Outcomes (2021-2022)



Fig.15. Project Outcomes for the AY 2021-2022

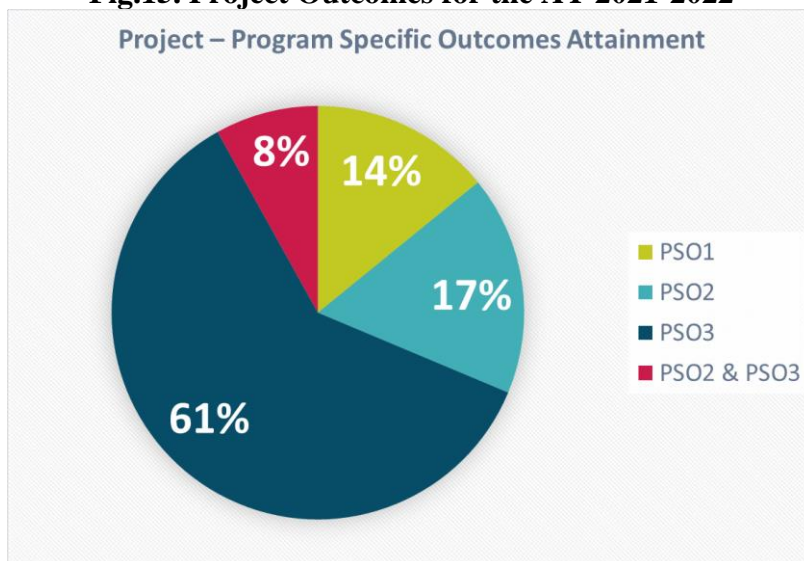


Fig.16. PSO outcome attainment analysis based on the projects

Suggestion & comments by PA&QIC Members:

- Project analysis can also be done for the Miniproject and it can also be mapped and included for outcome attainment.

- Domain wise project attainment can also be prepared.

3. Review the impact of Internship and Industry Training

Presenter: Mr.K.Vigensh Saravanan, AP/CSE

The following points were discussed about the impact analysis of internship and industry training:

- Total of 98 students completed internships in 22 companies.
- The comparative analysis of students participation in internship and in-plant training were discussed and the details are shown in Table.5.

Table.5. Comparative Analysis of Students participation in internship and in-plant training

S.No	Academic Year	No. of students benefitted	No. of Companies visited
1	2017-2018	5	2
2	2018-2019	20	7
3	2019-2020	32	18
4	2020-2021	85	34
5	2021-2022	98	22

- Comparative analysis of total no. of IPT/Internship vs placement offer for the batch 2018-2022 were discussed to panel and shown in Fig.17.

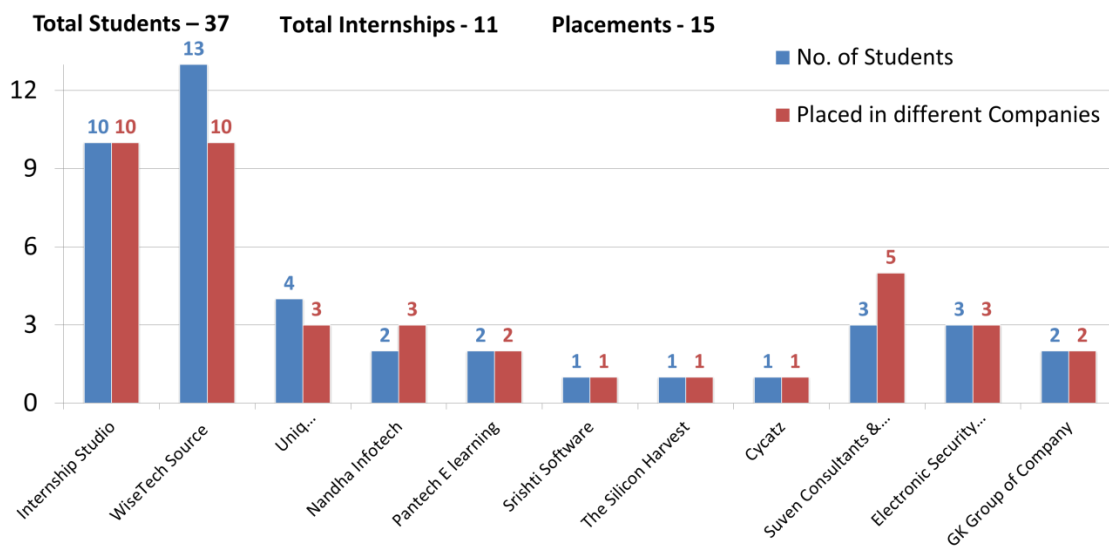


Fig.17. Impact of Internships on placement offers - Batch 2018-2022

- 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.18.

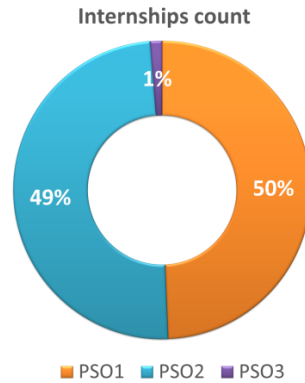


Fig.18. Analysis of the PSOs

Suggestion & comments by PA&QIC Members:

- The committee provided input to collect questionnaire/Feedback on the internship impact from students after their placements.

4. Analysis of Institute Industry Interaction

Presenter: Mr.K.Vignesh Saravanan, AP/CSE

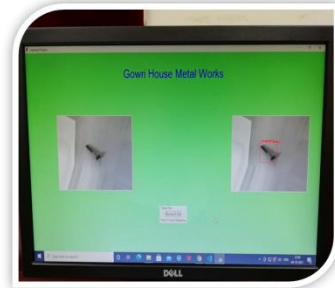
Presented the MOU signed companies by the department, industrial support laboratories established and Industry institute outcome. The industry wise details are given below:

- Outcome of the industry Gowri House Metal works shown in the Table.6. was discussed with the panel members

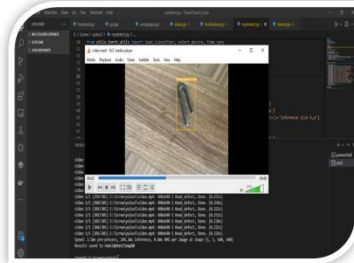
Table.6. Outcome of MOU signed Industry- GowriHouse Metal Works LLP, Rajapalayam

Sl.No.	Outcome	Status
1	05 students and 03 faculty of the CSE department is involved in the development of Automation of Product Quality Checking ApplicationProject	Completed
2.	10 students and 03 faculty of the CSE department is involved in the development of Implementation of eTPM in Screw Manufacturing Industry project	Completed
3	04 of the faculty members of CSE department are involved in the knowledge sharing on Microsoft word to the employee of Gowri House Metal works	Completed
4	04 of the faculty members of CSE department are involved in the knowledge sharing on Microsoft Excel to the employee of Gowri House Metal works	Completed

The following Fig.19. shows the glimpses of activities carried out in Gowri House Metal works



Interactions
of the
students



Screenshots of
the application
developed

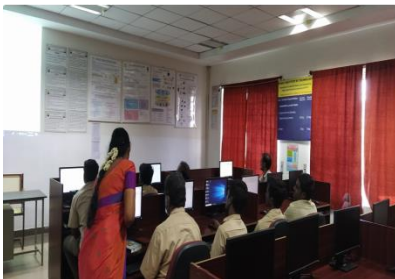
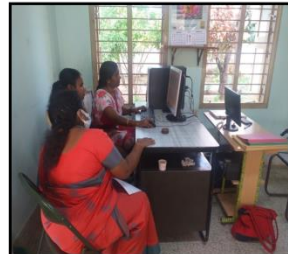


Fig.19. Glimpses of Activities carried out in GowriHouse Metal Works Ltd., Rajapalayam

- Presented the outcome of the MOU signed industry- Raja Nursery. It is shown in the Table.7 and status of the industry projects and the team details are discussed in Table.8.

Table.7. Outcome of Raja Nursery Activities

Sl.No.	Outcome	Status
1	11 students and 05 faculty of the CSE department is involved in the development of Real forest Mobile App Development	In Progress

Table.8. Status of Raja Nursery Projects

S.No	Project Title	Students Name	Status
1	App Development using Xamarin	Team I	Bark width Completed Tree volume In-progress
2	Cloud Storage & Retrieval	Team II	In-Progress
3	Bark Type Identification using AI	Team III	In-Progress
4	App to calculate bark width and tree volume	Team IV	Bark width Completed Tree volume In-progress

The following Fig.20. shows the glimpses of activities carried out in Raja Nursery Projects

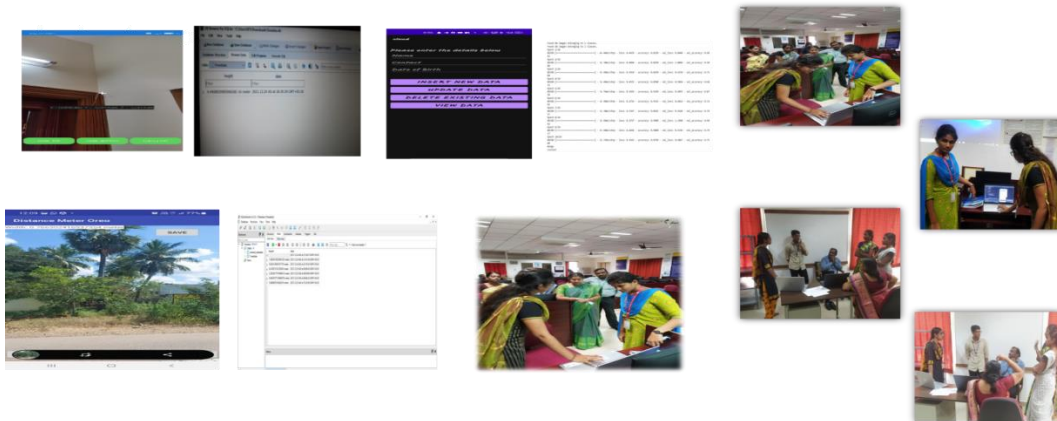


Fig.20. Glimpses of Activities carried out in Raja Nursery, Rajapalayam

- The outcome of MOU signed company Geonlogix was presented to the panel which is shown in Table.9 and Fig.21. shown its glimpses.

Table.9. Outcome of Genonlogix Company

Sl.No.	Outcome	Status
1	06 students and 03 faculty of the CSE department is involved in the development of Heart Disease Prediction - Data Science Project	Completed
2	02 students and 03 faculty of the CSE department is involved in the development of TCS Stock Market Prediction	Completed
3	02 students and 03 faculty of the CSE department is involved in the development of Rule based Chatbot using RASA frameworks	Completed
4	02 students and 03 faculty of the CSE department is involved in the development of Time Series forecasting of data	In-progress

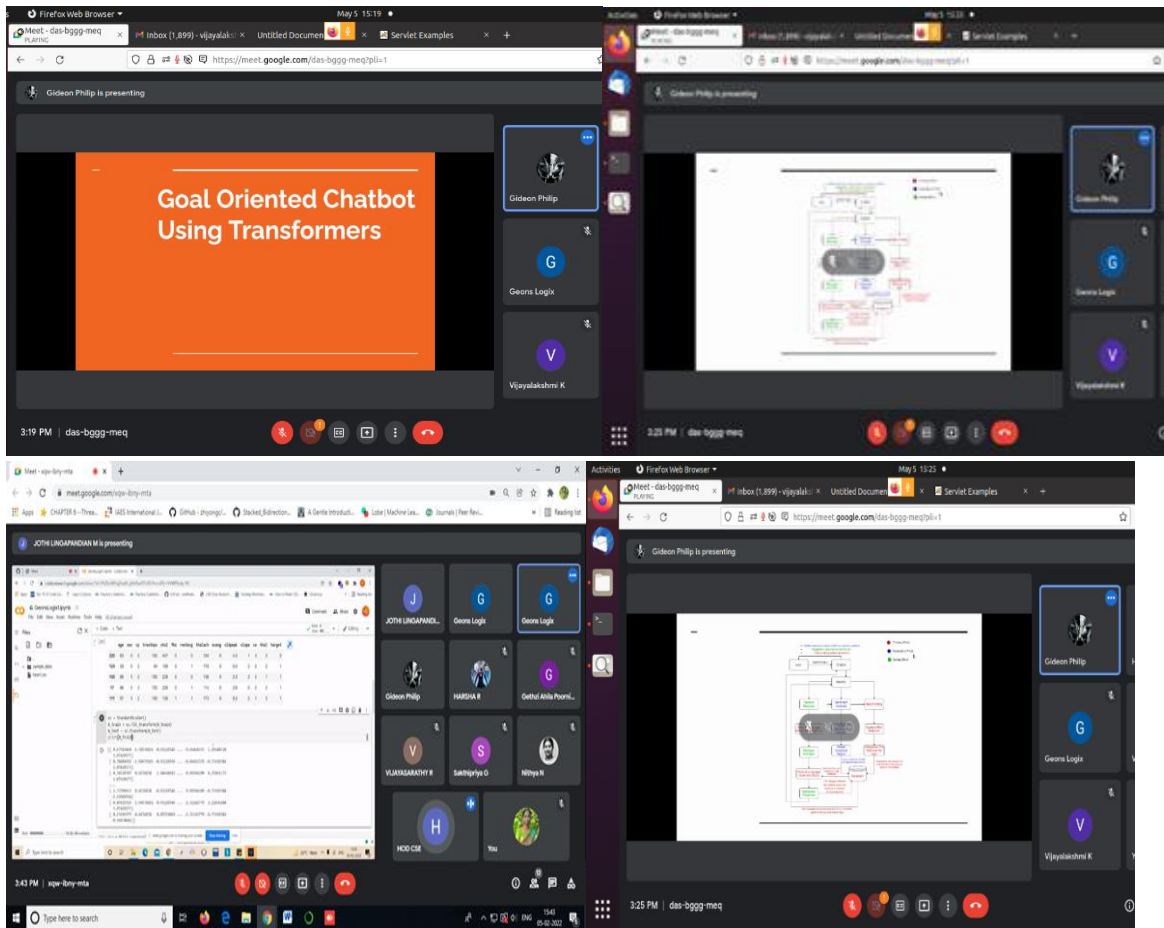


Fig.21. Glimpses of Activities carried out in GeonLogix, Madurai

- SAE India Southern section project outcomes are discussed with the panel members. The Table.10. shows the outcome status of SAE India project and Fig.22. shown the glimpses of the SAE projects

Table.10. Outcome of SAE India

Sl.No.	Outcome	Status
1	<ul style="list-style-type: none"> • 04 Students and 01 faculty of the CSE department involved in the development of Self Driving Autonomous Car • 04 Students participated in Self-Driving car Challenge event conducted by SAEINDIA Southern Section • All the four students attended self-driving car challenge workshop conducted by SAEINDIA for one week in Chennai by southern section. • Our students have below rank 5000 in Kattis Platform and Student ViswajithSairam of III year CSE is the team leader of Team A collect the status of the all the team members submit the report to SAEINDIA. 	Completed



Fig.22. Glimpses of SAEIndia Southern Section Project Activities

- Presented about the status of Redhat Academy and its details are shown in Table 11 and Fig.23.
 - 2- Faculty members (Dr.M.Gomathy Nayagam and Dr.R.Venkatesh) completed the International Certification RHCSA
 - Gave the Linux System Administration training to the II CSE Students

Table.11. Details of Redhat Academy

Sl.No.	Name of the Company	Title of the Training	Faculty Member	Proposed Training Date
1	RedHat Academy (Vectra Technosoft Pvt.Ltd., Chennai)	Red Hat Certified System Administrator -RHCSA	Dr.M.GomathyNayagam, ASCP/CSE Dr.R.Venkatesh, AP(SG)/CSE	28.02.2022 to 05.03.2022

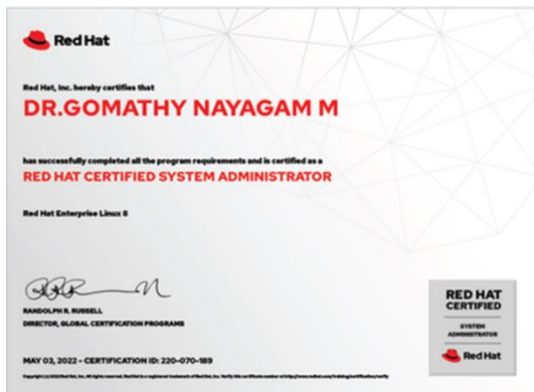


Fig.23. International Certification RHCSA of Faculty Members

- Outcome of the Imarticus Pvt. Ltd. was discussed and the details are shown in the Fig.24.

S.No	Imarticus Online courses	No. of Students
1	Python Programming Certification	17
2	Graphics Design 101	1



Fig.24.Outcome of Imarticus Pvt. Ltd.

- The faculty members were applied the funded project to the government agencies with the help of MOU signed company Enthu Technology were presented by the Mr.K.Vignesh Saravanan
- Presented the internship+ consultancy project offered by MOU signed company DudeMe design. The details are given in the Fig.25.

Name of the Student	Name of the Company	Title
Dinesh Kumar M	Dude Me Designs	Graphics Designing
Krishna Srinivas P	Dude Me Designs	Graphics Designing

Fig.25. Outcome of Dudeme Desing Internship and Consultancy

- Total of 15 courses are completed by students and faculty members and still 29 courses are in progress in Infosys Springboard through Infosys MOU signed.

Suggestion & comments by PA&QIC Members:

- The committee provided input to improve the number of MOUs signed.
- Increase more interactions with the MOUs signed companies and try for consultancy works.
- Visit all the MOUs signed companies and try for Internships / Placements

5. Attainment of COs, POs and PSOs with program effectiveness.

Presenter: Mr.C.A.Yogaraja

The following points were discussed about the attainment of Cos, Pos and PSOs:

- 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 programmewere presented.
- The target fixation and attainment level for the batches 2016 – 2020, 2017 – 2021 were explained.
- CO attainments for all the academic year of all the courses were discussed.
- 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 2017-2021 passed out batch were discussed and which is shown in Table.12.

Table.12. CO Attainment Status

CODE	TITLE	TARGET	ATTAINMENT	STATUS
CS8073	C# and .Net Programming		3	Attained
GE8073	Fundamentals of Nano Science			
CS8079	Human Computer Interaction	2.39	3	Attained
CS8711	Cloud Computing Laboratory	2.92	3	Attained
CS8791	Cloud Computing	2.5	3	Attained
CS8792	Cryptography and Network Security	2.65	2.53	Not Attained
GE8077	Total Quality Management	2.16		
IT8761	Security Laboratory	2.72	3	Attained
MG8591	Principles of Management	2.41	3	
OCE751	Environmental and Social Impact assessment	2.4	3	Attained
OCH752	Energy Technology	2.54	2.84	Attained

CODE	TITLE	TARGET	ATTAINMENT	STATUS
CS8501	Theory of Computation	2.01	3	Attained
CS8581	Networks Laboratory	2.75		
CS8582	Object Oriented Analysis and Design laboratory	2.75	3	Attained
CS8591	Computer Networks	2.21	3	Attained

CS8592	Object Oriented Analysis and Design	2.16	2.87	Attained
EC8681	Micro Processors and Microcontrollers Laboratory	2.72	3	Attained
EC8691	Microprocessors and Microcontrollers	1.92	2.68	Attained
MA8551	Algebra and Number Theory	2.19		
OCE551	Air Pollution and Control Engineering	2.51	3	Attained
OME551	Energy Conservation and Management	2.19	2.92	Attained
OMF551	Product Design and Development	2.1		

CODE	TITLE	TARGET	ATTAINMENT	STATUS
MA8351	Discrete Mathematics	2.14		
CS8351	Digital Principles and System Design	2.15	2.76	Attained
CS8391	Data Structures	1.80		
CS8392	Object Oriented Programming	1.93		
EC8395	Communication Engineering	1.89	2.04	Attained
CS8381	Data Structures Laboratory	2.68		
CS8383	Object Oriented Programming Laboratory	2.70	3	Attained
CS8382	Digital Systems Laboratory	2.67	3	Attained
HS8381	Interpersonal Skills/ Listening & Speaking	2.59	3	Attained

Suggestion & comments by PA&QIC Members:

- Curricular, extra-curricular activities can be mapped with POs/PSOs and it can be assessed

6. Professional Societies Activities (New Professional Societies initiatives if any)

Presenter: Mr.K.Vignesh Saravanan, AP/CSE

- Summary of the professional societies (RIT-Clustra, RIT-CSI, RIT-IE(I)-CSE, ACM, IEEE) were discussed to the panel members. The following details were discussed.
 - Total no. of events organized by RIT-Clustra- 09 and no. of students participated - 404
 - Total no. of events organized by RIT-CSI- 08 and no. of students participated – 389
 - Total no. of events organized by RIT-IE(I)-CSE- 13 and no. of students participated- 513
- The following Table.13. shows the membership details of professional societies and Fig. 26. shows the glimpses of professional society activities.

Table.13. Membership details of Professional Societies



Consolidated Department Memberships

SI. No.	Name of the Professional Society / Association	Number of Student Members	Number of Faculty Members
1.	RIT - CLUSTRA	230	13 +1 (Adjunct Faculty)
2.	CSI	72	05+02 yet to apply
3.	IE(I) CSE	52	02 + (04 yet to apply)
4.	ACM	Yet to apply	01 + (02 yet to apply)
5.	IEEE	Yet to apply	01 + (01 yet to apply)



RIT-CSI Glimpses of Event Organized



Clustra - Glimpses of Event Organized



IE(I) CSE Glimpses of Event Organized



Fig.26. Glimpses of Professional Society's Activities

Suggestion & comments by PA&QIC Members:

- The committee provided input to students and faculty need to attend the Industry Webinar.
- The committee asked to relate the Event to PO.
- The committee provided input to the students article need to send IE, CSI newsletter publications.
- The committee provided input to improve the students outside participation (Other College and Other State).

7. Outcome Analysis of Students Participation (including State/ National Level contest also), Online Courses and students achievements

Presenter:Mrs.S.Manjula, AP/CSE

- Total of 422 participation was presented. The Table.14. shows the year wise students participation details

Table.14. Year wise Total Student Participation Count

Year	Total Participation Count
I	51
II	295
III	71
IV	5

- Presented a detailed involvement of students' participation in International, National and State level. The following International level, National level, State level contests participated by the students are discussed
- International Level Contest participated by the students
 - Google Code Qualification round
 - Cambridge Business English Certificate
- National Level Contest Participated by the students
 - National Creativity Aptitude Test 2022
 - HCL HACK IITK - Cybersecurity Hackathon organized by IIT Kanpur
 - Essay Competition organized by CSIR- Central Leather Research Institute
 - Innovative India Coding Championship
- State Level Contest Participated by the Students
 - Smart India Hackathon 2022
 - Sathyabama Institute of Science and Technology
 - Chennai Institute of Technology
 - Kalasalingam Academy of Research and Education
 - KLN college of Engineering
 - SRM Institute of Science and Technology
 - IIT PALS, Chennai

- Highlighted the student's involvement in various events and also classified the events such as workshops, webinars, guest lectures, presentation, quiz, technical events, and coding contests.
- Students' accomplishments are also included in the presentation by the date-wise. The details about the students accomplishments are:
 - ✓ All India rank in **National Creativity Aptitude Test 2022** conducted by IIT Delhi.
 - ✓ M.Jothilingapandian and M.Gowthamkarthikeyan won **Jury Award for Promising Solution** with **cash prize Rs.25,000 in HCL HACK IITK - Cybersecurity Hackathon** organized by IIT Kanpur from 17.09.2021 to 29.01.2022.
 - ✓ R.N.Bala Murali Krishna, II CSE won **first prize with cash award of Rs.3000/-** in Innovative Project contest 2K22 organized by IPC & IIC-KLN college of Engineering held on 27.05.2022.
 - ✓ M.Gomathi Lakshmi, I CSE won the **Consolation First Prize in an Essay Competition** organized by CSIR- Central Leather Research Institute on 31.03.2022.
 - ✓ Qualified Cambridge English **Qualification-Business English Certificate (BEC) at the Vantage and Preliminary level**
 - ✓ Smart India Hackathon 2022 grand finale- II CSE , V-CAN Project
 - ✓ Final round of self-driving car challenge 2021 SAEINDIA Southern Section (SAESIS) held at SRM Institute of Science and Technology
 - ✓ K,M,Architha I CSE received award certificate on 22.06.2022 from IIT PALS valedictory function for securing I prize in Quiz
 - ✓ Google Hash Code Qualification round
 - G.JayaDharshini III CSE- secured rank 2658 (Globally)
 - Harsha R, Muthu Brijesh R, Muthu Kumar K, II CSE-secured rank 6631(Globally).
 - ✓ Muthu Brijesh R, II CSE -4 Stars in Hacker rank in python, c, c++
 - ✓ K.M.Architha, R.Shobika, I CSE, Harsha R, II CSE completed Certificate course on problem solving (Basic) in Hacker rank
 - ✓ **Debate- முத்தமிழ்மாமன்றம்**
 - M.K.Divya - II CSE
 - A.Esakki Raja - IV CSE
 - G.Lakshmi Priya-II CSE
 - Sathya Narayanan-II CSE
 - Dinesh Kumar - III CSE
 - ✓ K.Muthukumar, II CSE won **I prize in Quiz** ISTE Tamil Nadu section engineering students convention
 - ✓ 42 students from II CSE completed **SQL in Hacker rank**
 - ✓ M.U.Haridharshana, I CSE - **Best Cadet in NCC camp** conducted from 14.05.2022 to 23.05.2022.
 - ✓ 18 contests were attended by the students of various years and 16 students were qualified the first round.



Fig.27. Glimpses of Students' Achievements

Suggestion & comments by PA&QIC Members:

- Suggested to give appreciation amount for the student's accomplishments
- Recommended to organize intra college coding contest

8. Training and Placement Statistics- Analysis**Presenter:** Mrs.M.Swarna Sudha, AP(SG)/CSE

- The placement statistics for the last academic year has been presented. The percentage of placed student during the academic year 2021-2022 is 94.84%.
- She has also presented the industrial sector wise placement details and companies visited for on campus recruitment.
- Highest CTC: 9 LPA, Average CTC:3.79 LPA
- 33 students were placed with more than 3 LPA
- The details of placement training given to the students. The details are given below in Table.15. and Fig.28. shows the glimpses of placement training program:

Table.15. The details of Placement Training

S.No	Type of Training	Dates	Conducted Faculties	Students attended
1.	General Training Program	25.07 2022 to 28.07.2022	Top Fresher's	Unplaced Students
2	Mock Group Discussion	16 .05.2022 14 .05.2022 13 .05.2022	Mrs.M.Swarna Sudha, Mrs.N.Nithya, Mr.Yogaraja C Dr. M. Anand Associate professor/English	Kaar Technology eligible students
3	General Training Program -	05.08.2021 to 14.08.2021	Top Fresher's	III year students Batch 2019-2023
4	Company specific Training Program Ajira Technology Drive	11.06.2022 & 12.06.2022	Top Fresher's	III year students Batch 2019-2023
5.	Ramco Systems - Internal Training	19.05. 2022 To 21.05.2022	Dr.R Venkatesh Ms.MSwarna Sudha Ms.N Nithya , Ms. B.Vijayalakshmi & Mr. Vignesh Saravanan,	III year students Batch 2019-2023
7	Embed UR - Internal Training	10.05 2022 To 18.05 2022	Ms. Swarna Sudha Ms. Nithya , Ms. Vijayalakshmi B & Mr. Vignesh Saravanan	III year students Batch 2019-2023

8	Trilogy Innovations Externl Training - Virtual	09.05.2022 To 14.05.2022	Top Fresher's	III year students Batch 2019-2023
9.	Company Specific Training Kaar Technology	02.05 2022 To 06.05 2022	Top Fresher's	III year students Batch 2019-2023
10	Company Specific Training	26.04.2022 To 28.04.2022	Top Fresher's	III year students Batch 2019-2023
11	Skill Enhancement Training	09.04 2022	Top Fresher's	I year students Batch 2021-2025
12	Accenture Company Specific Training	29.03 2022	Top Fresher's	IV year students Batch 2018-2022
13	Company Specific Training Kaar Technology	02.05 2022 To 06.05 2022	Top Fresher's	III year students Batch 2019-2023
14	Company Specific Training	26.04.2022 To 28.04.2022	Top Fresher's	III year students Batch 2019-2023
15.	Capgemini Drive Company Specific Training	13-12-2021 To 18-12-2021	Top Fresher'	IV year students Batch 2018-2022
16	Company Specific training Wipro mock interview	15.10.2021 & 16.10.2021	Ms.M. SwarnaSuda Ms. Nithya , Ms. Vijayalakshmi B & Mr. Vignesh Saravana	Wipro round 1 Selected Students 2018 batch
17	Company Specific training Data Pattern	25.10.2021 & 3.11.2021	Mrs.M.Swarna Sudha	All branches 2019 batch Data pattern first round selected students
18.	Capgemini Drive Company Specific Training	13-12-2021 To 18-12-2021	Top Fresher'	IV year students Batch 2018-2022
19	Company Specific training Wipro mock interview	15.10.2021 & 16.10.2021	Ms.M. SwarnaSuda Ms. Nithya , Ms. Vijayalakshmi B & Mr. Vignesh Saravana	Wipro round 1 Selected Students 2018 batch



Mr A. Esakkiraja of Batch 2018-2022 Placed Ramco Cements



Ms P Shanthi Priya of Batch 2018-2022 Placed TCS Digital

Fig.28.a. Aptitude Training Program

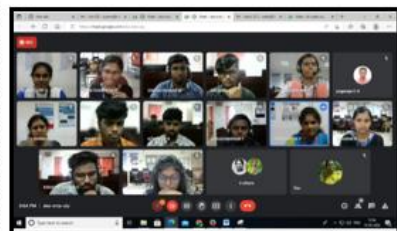


Fig.28.b. Mock GD by Internal Faculty Members



Fig.28.c. Glimpses of knowledge dissemination meeting conducted to the III year CSE students from Placed Student

9. Outcome Analysis of Alumni Interaction

Presenter: Ms.G.Sakthi Priya

The discussed the following points to the panel members

a. List of Alumni Interactions conducted in 2021-2022(Even) Semester

- Alumni as a Judge for “Project Review” for final year students
- Pre-Placement talk on “Effective test taking strategies”
- Pre-placement talk on “Strategy to get into EmbedUR”
- Motivational talk on “Crack Interview at First Attempt”
- Guest Lecture on “Scrum Agile Framework”
- Alumni as a Judge for “Paper presentation contest” for II CSE Students

b. Outcome of Alumni Meet Analysis

Batch : 2013-2017

Feedback Given :

1. Suggested to do more projects

Action Taken:

- Students doing Industry projects, projects in IIT PALS, Mini projects in curriculum
- Students are involved in Geons Logix Project, Raja Nursery Project, Gowri House Project
- **S.Suryakumar, III CSE** has participated and received appreciation Cash Prize Rs.4000/- in the project contest organized by **IITM- PALS InnoWAH Virtual Exhibition-2021** on 20.03.2021
- Mini Project are given in the subjects “Programming in C, DBMS, OS, OOP”

2. Insisted to inculcate the culture of Self-learning

Action Taken:

- Students doing online courses in Coursera, Great Learning, Edx, Udemy, etc
- HTML, CSS Course Link given to I and II Yr CSE Students.
- Weekly Test Conducted to assess their knowledge

Batch : 2014-2018

Feedback Given :

1. Conduct many group discussions for better communication skills

Action Taken:

- Group discussions are conducted frequently to improve the students communication skills
- 12 students attended GD round in Kaar Technologies placement drive
- 8 Students selected for next round

2. Suggested to learn about new technologies like Devops, MERN etc

Action Taken:

- Value Added course on **Data Science** for II and III CSE conducted by Ms.Harini S R (Batch 2016-2020), **Red Hat Linux Administration** for II CSE, **MERN Stack** for III yr CSE were conducted
- Technical sessions on **React Js** conducted by Mr.P.Vinoth Rajan (Batch 2014-2018), **Agile Scrum Framework** conducted by Ms.M.Muthu Lakshmi (Batch 2014-2018), **Java spring boot Micro services** conducted by an industry expert.

3. Suggested to make the students to participate in Inter College events

Action Taken:

- Students participation outside the college are encouraged.
- M Jothi Linga Pandian and Gowtham Karthikeyan, II CSE participated in cyber securityhackathon and won “Jury Award for promising solution” organized by IIT Kanpur
- Bala Murali Krishna R N Participated in Innovative Project contest and won Cash award Rs 3000/-
- Students from I Yr and II Yr participated in Inter College Symposium
- M.Gomathi Lakshmi, I CSE participated in Smart Phone Photography and Mobile App poster Design Sathyabama Institute of Science and Technology
- Sathish Kumar K and Siva Kumar M participated in final rounds of self driving car challenge 2021 organised by SAEINDIA Southern Section (SAESIS)

Batch : 2015-2019

Feedback Given:

- 1. Insisted to have a more programming practice which could be helpful during placements**

Action Taken:

- Training and placement hour on every Saturday is introduced and included Time Table
- Students earned ratings and stars in HackerRank
- 40 Students from II CSE completed Hacker rank certification "SQL Basic"
- Students are participating in Coding contests
 - Newton School Grand Coding Contest** - Gopiy K J, Divya M K, Harsha R, Dhiraj N, Siva Kumar M, II CSE
 - Google Hash Code Contest** - Harsha R, Muthu Brijesh R II CSE, Jeya Dhrashini III CSE
 - Innovative India Coding Championship** – 7 Students from II CSE, 10 students from I CSE
 - FlipKart runaway Contest** - Divya M K, Pavithra K, II CSE
 - Google Kick Start Contest** - 24 Students of II CSE

Innovacer Hacker Camp'22 – Sathish Kumar, II CSE

2. Suggested to give coaching for the students planning to do higher studies

Action Taken:

- Alumni Talk on Gate Expert lecture conducted

c. Alumni Suggestions on curriculum gap identification

The following Table.16. shows the details of suggestion given by the alumni for the various courses and the corresponding action taken.

Table.16. Alumni Suggestion and Action taken for the various courses

S.No	Name of the Subject	Name of the Alumni Member	Suggestion Given	Action Taken
1	Internet Programming	Mrs.Archuna V (Batch 2014-2018), IT Analyst, TCS - Australia	knowledge in any one of Single Page Application (SPA) framework	Nil
2	Machine Learning	Ms. Lakshmi priya D (Batch 2014-2018) , TCS, Chennai	R programming, Python, Scala, Shell, Keras, Tensor flow	Conducted VAC on Data Science
3	Database Management Systems	Ms. Lakshmi priya D (Batch 2014-2018) , TCS, Chennai	SSIS, SSRS, GIT, SQL in API, SQLite	Beyond University syllabus questions for each lab exercises, whichever possible are given to the students. The same is updated in the Lab manual.
4	Database Management Systems	Ms. Asmitha R (Batch 2014-2018) , Vuram Technologies, Chennai	Hands on practice with DBMS	Hands on Practice in DBMS lab and Mini Project in DBMS
5	Programming in C	Ms. Lakshmi priya D (Batch 2014-2018) , TCS, Chennai	Graphics in C	Included in content Beyond Syllabus

10. Outcome Analysis of Faculty Participations, completion of Online Courses and achievements

Presenter: Ms.P.Jothi Thilaga, AP/CSE

- Summarized the FDP/STTP, Webinar/Seminar and Workshop/ Training programme attended by the faculty members. The Table.17. shows the details.

Table.17. Summary of FDP/STTP, Webinar/Seminar and Workshop/Training Programme participated by Faculty Members

Number of Faculty Attended			
Activities	FDP/ STTP	Webinar/ Seminar	Workshop/ Training
2021-2022	Faculty - 13 Programmes - 35	Faculty – 7 Programmes - 10	Faculty - 10 Programmes - 8

- The details of courses completed by the faculty members offered by NITs and IITs were presented to the panel members. The Table.18. shows the details of the courses

Table.18. The details of IITs & NITs Courses completed by Faculty Members

Sl. No.	Faculty Name	Title / Name of the Programme	Organized by (Name of the IITs/ NITs)	Date
1	Dr.V.Anusuya	Machine Learning for Computer Vision	NIT Warangal	21.02.2022 to 04.03.2022
2	Dr.M.Gomathy Nayagam	AI & Machine Learning for IoT/EDA	NIT Patna	07.03.2022 to 19.03.2022
3	Dr.R.Venkatesh	Data Science for All	NIT Warangal	22.03.2022 to 01.04.2022
4	Mrs.M.Swarna Sudha	Machine Learning for Computer Vision	NIT Warangal	21.02.2022 to 04.03.2022
5	Mrs.B.Vijayalakshmi	Internet of Things	IIT Guwahathi	21.02.2022 to 26.02.2022
6	Mrs.N.Nithya	Internet of Things	IIT Guwahathi	21.02.2022 to 26.02.2022
7	Ms.P.Jothi Thilaga	Machine Learning for Computer Vision	NIT Warangal	21.02.2022 to 04.03.2022
8	Mrs.S.Manjula	Blockchain Technology & its Applications	NIT Patna	21.02.2022 to 28.02.2022
9	Mr.C.A.Yogaraja	AI & Machine Learning for IoT/EDA	NIT Patna	07.03.2022 to 19.03.2022
10	Mr.K.Vignesh Saravanan	Blockchain Technology & its Applications	NIT Patna	21.02.2022 to 28.02.2022
11	Ms.G.Sakthi Priya	Data Science for All	NIT Warangal	22.03.2022 to 01.04.2022
12	Dr.I.Gethzi Ahila Poornima	Cyber Security Principles and Defensive Mechanisms	NIT Warangal	21.03.2022 to 31.03.2022

- Other training programme completed by the faculty members were presented by the process owner. The details are given below:
 - Internship program in “zoho” was completed by Mrs.B.Vijayalakshmi, Mr.K.Vignesh Saravanan – Certified Zoho Trainers
 - Training Program on “Robotic Process Automation Design and Development (RPADD) Virtual Educator Readiness Session” organized by UiPath Learning

- Alliances and Certification, was done by Dr.M.Gomathy Nayagam and Mr.K.Vignesh Saravanan
- “Redhat Linux Certification” was done by Dr.M.Gomathy Nayagam & Dr.R.Venkatesh (International Redhat Linux System Administration)
- “FDP-SI UHV Online - “AICTE Incorporating Universal Human Values in Education” completed by Dr.V.Anusuya, Dr.R.Venkatesh, Mrs.B.Vijayalakshmi, Mrs.N.Nithya, Mr.C.A.Yogaraja, Mr.K.Vignesh Saravanan, and Dr.I.Gethzi Ahila Poornimah
- “5-day UHV Refresher 1 Part 1 (AICTE Incorporating Universal Human Values in Education)” completed by Mrs.B.Vijayalakshmi, Mrs.N.Nithya, and Mr.K.Vignesh Saravanan
- Mr.K.Vignesh Saravanan & Mr.C.A.Yogaraja completed a Bootcamp on “Basics of Android App Development with Kotlin” offered by L4G & Google Developer Team
- The details of Infosys springboard certification courses completed by the faculty was presented. It is shown in Table.19.

Table.19. Details of Infosys Spring board offered courses completed by the faculty members

Sl. No.	Faculty Name	Title / Name of the Programme	Date
1	Dr.V.Anusuya	Artificial Intelligence	06.06.2022 to 10.06.2022
2	Dr.R.Venkatesh Mrs.M.Swarna Sudha	Python Programming	13.06.2022 to 17.06.2022
3	Ms.P.Jothi Thilaga Dr.I.Gethzi Ahila Poornima	Java Programming	20.06.2022 to 25.06.2022
4	Mr.K.Vignesh Saravanan Ms.G.Sakthi Priya	Angular	27.06.2022 to 02.07.2022

- The following impacts of the training attended by the faculty members were discussed.
 - Mrs.B.Vijayalakshmi & Mr.K.Vignesh Saravanan – handling *Zoho Training* to III year students of all the departments.
 - Mrs.B.Vijayalakshmi & Mr.K.Vignesh Saravanan – handling *Google contest coding practice* to contest registered students.
 - Harsha, II Year CSE participated in Google Hash code contest & scored highest ranking.
 - Mrs.B.Vijayalasm, Mrs.N.Nithya - handled *Artificial Intelligence & CNN* classes to I year students of CSE & ECE.
 - Conducting *Mock Interviews* to III year students by all the Faculty Members

- Dr.M.Gomathy Nayagam and Mr.K.Vignesh Saravanan – conducted training on “*Robotic Process Automation Design and Development*”
- Mrs.B.Vijayalakshmi and Mrs.N.Nithya - conducted a training on “*Artificial Intelligence*”
- Dr.R.Venkatesh & Dr.M.Gomathy Nayagam – handling *Redhat Linux* to II year students of CSE department as Value Added Course.
- Mrs.B.Vijayalakshmi & Mr.K.Vignesh Saravanan – handling *Data Scienceto* II year students of CSE department as Value Added Course.
- Conducted content beyond syllabus in both theory and practical courses.
- Facilitated in doing Student’s Mini projects and Final year projects.
- Conducted value added courses and one-credit courses.

Suggestion & comments by PA&QIC Members:

- Insisted to complete NPTEL courses.

11. Outcome analysis of Faculty Innovative practices and Faculty performance analysis

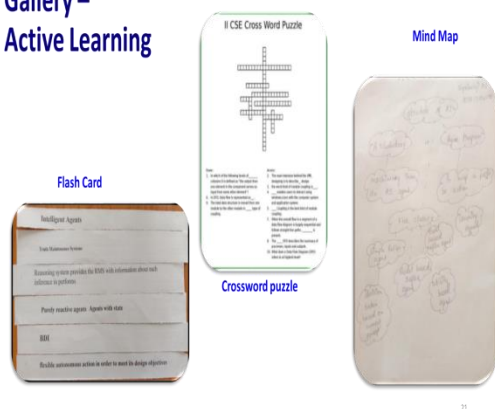
Presenter: Mrs.B.Vijayalakshmi, AP(SG)/CSE

Summarized the various active learning, Collaborative learning, E-Learning teaching methods were used in the various courses. Some of them are:

- Crossword Puzzle
- Reflection
- Concept Map
- Role Play
- Flash Card
- Retrieval Practice
- Freewrites
- Strip Sequence
- Code Finder
- Think pair Write
- One truth two lies
- Minute Paper
- Flipped Classroom
- Jigsaw,
- STAD
- Three Step Interview
- Peer Discussion
- Blended Learning
- Learning by teaching

The Fig.29. show the glimpses of active and collaborative learning conducted in various courses.

Gallery – Active Learning



Collaborative Learning



Fig.29. Glimpses of Active and Collaborative Learning

- Presented the Faculty Performance Appraisal Outcome Visibility Analysis for the academic year 2020-2021. She shared the feedback given for the individual faculty member and the actions taken by them which is shown in the Table.20.

Table.20. Faculty performance analysis for the Year 2020-2021

Sl. No.	Faculty Name	Feedback Given	Action Done
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, Geonslogix Submitted DST project proposal. Patent- Filed &Published SCI Journal paper MoU- GitHub Enterprise, RedHat Academy
2	Dr.V.Anusuya	<ul style="list-style-type: none"> Eligible for promotion Initiate industry project and sponsored research Journal Publication, Patent 	<ul style="list-style-type: none"> Promoted as Associate Professor Submitted DST project proposal. Patent Filed
3	Dr.M.GomathyNayagam	<ul style="list-style-type: none"> Eligible for promotion Initiate industry project and sponsored research Journal Publication, Patent 	<ul style="list-style-type: none"> Promoted as Associate Professor TNSCST Funded Project Granted Submitted DST project proposal. Patent- Filed &Published SCI Journal paper

			<ul style="list-style-type: none"> • International Certification-UIPath, Linux
4	Dr.R.Venkatesh	<ul style="list-style-type: none"> • Research Completion • Funded project proposal, patent • Journal Publication 	<ul style="list-style-type: none"> • Completed Ph.D • Submitted DST project proposal. • International Certification- Linux • Patent filed
5	Mrs.M.SwarnaSudha	<ul style="list-style-type: none"> • Funded project proposal • File patent Journal Publication • Initiate R& D Activity 	<ul style="list-style-type: none"> • Submitted FAER project proposal. • Participated in ATAL FDP • Published paper in SCI Journal • Filed patent
6	Mrs.B.Vijayalakshmi	<ul style="list-style-type: none"> • Paper publication in Journal • Initiate R & D activity • File patent & industry supported project 	<ul style="list-style-type: none"> • Submitted DST project proposal. • Participated in ATAL FDP • Research Paper- Communicated to the Journal • Industry Project- Raja Nursery, Geonslogix
7	Mrs.N.Nithya	<ul style="list-style-type: none"> • Paper publication in Journal • Initiate R & D activity • File patent & industry supported project 	<ul style="list-style-type: none"> • Submitted TNSCST project proposal. • Participated in ATAL FDP • Industry Project- Raja Nursery
8	Ms.P.JothiThilaga	<ul style="list-style-type: none"> • Paper publication in Journal • Research & Development activity • File patent 	<ul style="list-style-type: none"> • Participated in ATAL FDP • Filed patent • Published paper in Scopus Journal • Industry Project- Raja Nursery
9	Mrs.S.Manjula	<ul style="list-style-type: none"> • Paper publication in Journal • Research & Development activity • File patent 	<ul style="list-style-type: none"> • Participated in ATAL FDP • Filed patent
10	Mr.C.A.Yogaraja	<ul style="list-style-type: none"> • Research & Development activity • Journal Publication & Patent 	<ul style="list-style-type: none"> • Published paper in SCI Journal • Participated in ATAL FDP • Patent Filed
11	Mr.K.VigneshSaravanan	<ul style="list-style-type: none"> • Paper publication in Journal • Initiate R & D activity • File patent & industry supported project 	<ul style="list-style-type: none"> • Published paper in Scopus Journal • Patent- Published in Gazette • International Certification-UIPath • Industry Project- Raja Nursery

12	Ms.G.SakthiPriya	<ul style="list-style-type: none"> • Participation FDP/SDP/STTP in • Paper publication in Journal and Conference 	<ul style="list-style-type: none"> • Participated in ATAL FDP • Published Scopus Journal Paper • Industry Project- Geonslogix
13	Dr.I.GethziAhilaPoornima	<ul style="list-style-type: none"> • Paper publication in Journal • Initiate R & D activity • File patent & industry supported project 	<ul style="list-style-type: none"> • Submitted DST project proposal. • Participated in ATAL FDP • Industry Project-Geonslogix

12. Outcome analysis of adjunct faculty

Presenter: Mrs.B.Vijayalakshmi, AP(SG)/CSE

She presented the following points about an outcome analysis of adjunct faculty:

- The adjunct faculty member Dr.S.Arumugam gave guidance to the final year students in their project work and also review their progress.
- He assisted in converting the project into journal publication.
- He interacted with the faculty members and gave suggestions for the CRG project proposal submission.

The following Fig.30. shows the outcomes of adjunct faculty

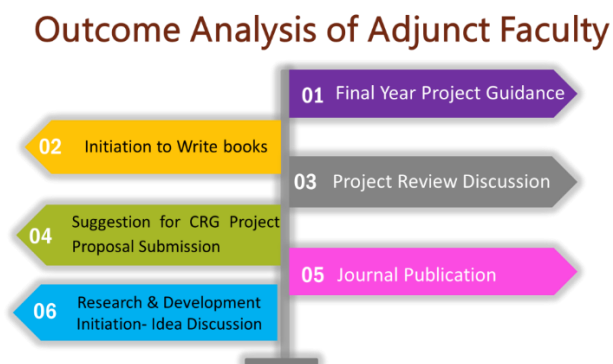


Fig.30. Outcome of Adjunct Faculty.

13. R&D Activities:

Presenter: Mrs.B.Vijayalakshmi, AP(SG)/CSE

She presented the following details to the panel members regarding the Research and Development of the program during the AY 2021-2022.

- 07- Journal Publications
- 07- Conference Publications
- Funded Project by TNSCST
- 05- Patent filed and 01- FER Received
- 15 – Funded projects proposal submitted to the govt. agencies like DST, CRG, TNSCST
- 10- Funded projects proposals are in under review
- Research lab establishment is in progress.

Suggestion & comments by PA&QIC Members:

- Need to increase the publications, citations, patent and consultancy work.

- Apply copyright for the Power point presentation prepared for our courses by including the sources as references.

14. Entrepreneurship Development Cell Activities and Career Guidance Cell Activities

Presenter: Mr.C.A.Yogaraja, AP/CSE

The following points were shared to the panel members:

- Summarized the IIC activities conducted and participated from the department
- Summarized the Department CGC activity on Gate Awareness Program conducted on 25.01.2022
- RIT IIC have secured 4 starrating for the academic year 2020 – 2021 (IIC 3.0)
- RIT is recognized in the band promising under the category “College/Institutes(Private/Self Financed) in ARIA 2021

Suggestion & comments by PA&QIC Members:

- Department Entrepreneurs can be improved
- More number activities and students can be participated

15. Continuous Improvement

Presenter: Dr.M.Gomathy Nayagam, Associate Professor/CSE

The process owner of the Criteria 7 (Continuous Improvement) has presented the following to the members:

- Presented about the overall program outcome attainment of 2017-2021 batch. The following Table.21. shows the overall PO attainment of 2017-2021.

Table.21. PO Attainment of 2017-2021

RAMCO INSTITUTE OF TECHNOLOGY															
Department of Computer Science and Engineering															
<u>OVERALL ATTAINMENT</u>															
Batch:2017-2021															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Direct PO Att	2.5	2.1	1.9	1.7	2.0	1.8	2.0	1.8	1.8	1.9	1.7	1.7	1.7	1.9	1.6
80% Direct PO Att	2.0	1.68	1.52	1.36	1.60	1.44	1.60	1.44	1.44	1.52	1.36	1.36	1.36	1.52	1.28

PES	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Alumni	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0
20% PES	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Total	2.60	2.28	2.12	1.96	2.20	2.04	2.20	2.04	2.04	2.12	1.96	1.96	1.96	2.12	1.88

- He presented the various actions taken to improve the POs and PSOs during the academic year 2021-2022 which are shown in Table.22.

Table.22. Actions taken for improving POs and PSOs during AY 2021-2022

POs	Action Taken	Couse Index
PO1 Engineering Knowledge	<ul style="list-style-type: none"> • Guest Lecture - Java Spring Boot Micro service, Java Collections, Industrial Applications of Data Structures, GoogleApp Engine, Importance of Data Structure and Algorithm, Recent Trends in Artificial Intelligence and Data Science, Computer Networks, Scrum agile framework • Workshop- ReactJS with GIT and Surge • NPTEL Vdeos • Guest lecture from Industrial expert for some specific subjects 	C102,C105,C108, C110,C114,C116, C203,C204,C206 C207,C208,C215, C302, C311,C313, , C317, C321,C403, C412, C416
PO2 Problem Analysis	<ul style="list-style-type: none"> • Guest Lecture on Industrial Applications of Data Structure. • More number of Tutorials and Assignments • Workshop- ReactJS with GIT and Surge • Conducted brainstorming session as innovative practices • Coding Contest- RIT Clustra, Technical Quiz on programming- RIT-Clustra 	
PO3 Design/ Development	<ul style="list-style-type: none"> • Guest Lecture on Java Spring Boot Micro Services, Java Collections, GoogleApp Engine • Assignment Presentation • NPTEL Video Lecture • GATE Question Discussion in subject. 	

PO4 Complex Problems	<ul style="list-style-type: none"> • Guest Lecture on Industrial Applications of Data Structure. • Workshop- ReactJS with GIT and Surge • Project Review – by industry expert members and Alumni 	C203,C206,C314, C320, C321,C416
PO5 Modern Tool Usage	<ul style="list-style-type: none"> • Guest Lecture - GoogleAppEngine, Recent Trends in Artificial Intelligence and Data Science, Java Spring Boot Micro service, Java Collections, Scrum agile framework • Workshop- ReactJS with GIT and Surge 	C203, C206, C204, C207, C313, C317, C321, C416
PO6 Engineering & Society	<ul style="list-style-type: none"> • CSI, IE(I)-CSE, RIT-Clustra Association, NSS and YRC Activities • Assignment related to social problems. • Industry Project- Mobile AppDevelopment for Raja Nursery and Automation of fault detection in Screws for Gowri Metal house. • TNSCST Sponsored Student Project. 	
PO7 Environment and Sustainability	<ul style="list-style-type: none"> • Industry Project- Mobile AppDevelopment for Raja Nursery and Automation of fault detection in Screws for Gowri Metal house. • TNSCST Sponsored Student Project. • Conducted awareness programme through NSS and YRC Activities, Women welfare cell. 	C313,C321, C407 C416
PO8 Ethics	<ul style="list-style-type: none"> • Motivated the students to became member in professional society such as CSI, IE(I) • Project to journal publication conversion • Conducted technical writing contest-RIT-CSI, Technical Paper Presentation Event on Recent Technologies by RIT-Clustra 	C203, C206, C314, C320, C321, C416
PO9 Individual and Teamwork	<ul style="list-style-type: none"> • Industry Project- Mobile AppDevelopment for Raja Nursery and Automation of fault detection in Screws for Gowri Metal house. • TNSCST Sponsored Student Project. • RIT-Clustra, CSI, IE(I) Activities: Treasure Hunt, Aptitude Tricky, Code Fiesta, Technical Connection, Group Discussion and etc 	C203, C206, C204, C207, C313, C317, C321, C416,C313, C321, C407,C416

<p>PO10</p> <p>Communication</p>	<ul style="list-style-type: none"> • Professional Societies, Associations activities • Presentation Assignment • Morning Presentation by Students (08.50 am to 09.00 am) • Activities through English Elite Club • Motivated the students to clear the Cambridge Business English Certificate (BEC) at the preliminary level and Vantage level • Industry project presentation. 	
<p>PO11</p> <p>Project Management and Finance</p>	<ul style="list-style-type: none"> • Industry Project- Mobile AppDevelopment for Raja Nursery and Automation of fault detection in Screws for Gowri Metal house. • Project Contest during Science day celebration • Applying Student project proposal to various funding agencies like TNSCST, FAER and TCS Techtastic - Display the innovator in you 	
<p>PO12</p> <p>Life- Long Learning</p>	<ul style="list-style-type: none"> • Conducted Various Industrial Guest Lecture like Fields in CS, Webinar on Wings to Career Aspiration • Conducted VAC • Motivated the students to complete the courses through Great Learning, Udemy, Microsoft, Cisco Networking Academy Infosys Springboard and etc in the following recent and emerging technologies : • Machine Learning • Android Application Development • Cyber Security Essentials and etc. 	<p>C203, C206, C314, C320, C321, C416</p>
<p>PSO1</p> <p>Software Development using Mobile Technologies</p>	<ul style="list-style-type: none"> • Workshop- ReactJS with GIT and Surge • Guest Lecture on GoogleApp engine • Mini Project • Online Courses 	<p>C203, C206, C204, C207, C313, C317, C321, C416,C313, C321, C407,C416</p>
<p>PSO2</p> <p>Appreciable Knowledge of IOT, Cloud and Cyber</p>	<ul style="list-style-type: none"> • Guest Lecture on GoogleApp engine • Conducted Various Industrial Guest Lecture like Fields in CS, Webinar on Wings to Career Aspiration • Mini and Final Year Project Project 	

Security	<ul style="list-style-type: none"> • Online Courses 	
PSO3 Proficiency in AI, Bigdata Analytics	<ul style="list-style-type: none"> • Guest Lecture on Recent Trends in Artificial Intelligence and Data Science, Computer Networks • Conducted Various Industrial Guest Lecture like Fields in CS • Mini and Final year Projects • Online Courses 	C203, C206, C204, C207, C313, C317, C321, C416 C313, C321, C407 C416

- In order to improve the attainment calculation of each POs and PSOs, the process owner suggested the various performance indicator tools used with the sample of PO12. The members suggested that to identify the performance indicator with AICTE prescribed and also they suggested to get the common suggestions from college level also.
- The process owner conveyed about the ISO audit-19 report is not yet received and the department academic audit is planned on 13.08.2022 to the panel members.
- Presented about the improvement in placement over the AY s: 2019-2020 to 2021-2022. Over the academic year, the percentage of paced students are growing from 89.61 for the AY 2019-2020, 93.18% for the AY 2020-2021 and 94.87% for the AY 2021-2022. The following Fig.31. Shows the % of placed students details

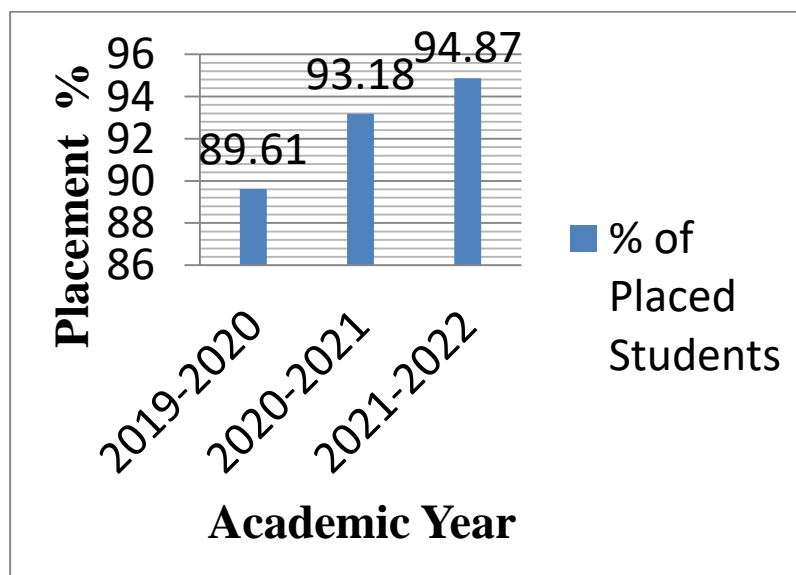


Fig.31. Percentage of Students placed against students opted for Placement

- Also, he discussed the Academic year wise minimum, maximum and average salary package of student placed in various reputed companies. The Minimum salary of the students placed in all three AY are 1.8 LPA, Maximum salary I 4.62 LP for the AY 2019-2020, 5 LPA for the AY 2020-2021 and 9 LPA for the AY 2021-2022 & Average salary of placed students over the AY are 2.98 LPA for the AY 2019-2020, 3.09 LPA for the AY 2020-2021 and 3.79 LPA for the AY 2021-2022. It shows the improvement in the placement with respect to the salary package analysis of the placed students in the Program. The Fig.32. shows the academic year wise Minimum, Maximum and average salary package of the placed students. The members suggested that to try to improve the minimum salary package of the students.

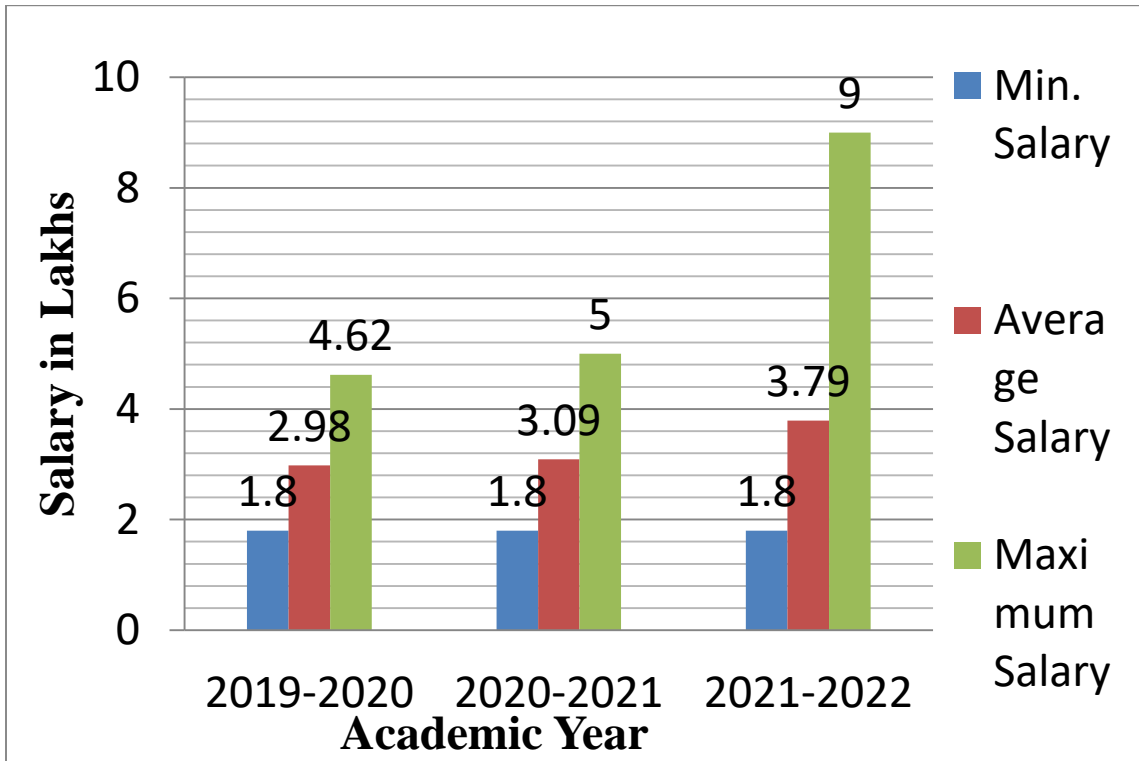


Fig.32. Academic Year wise Min, Max. and Average Salary Analysis

- Also, he presented about the improvement in placement with respect to academic year wise above 3 LPA salary package and core vs non-core placement details. For the AY 2019-2020, the number of students placed with above 3 LPA as 2 and the number of students placed in Core Company as 36, For the AY 2020-2021, the number of students placed with above 3LPA as 27 and the number of students placed in core company as 32 & for the AY 2021-2022, the number is 33 and the number of students placed in core

company as 33. The Fig.33. and Fig.34. shows the academic year wise 3 LPA package analysis of placed students and core vs non-core placement analysis.

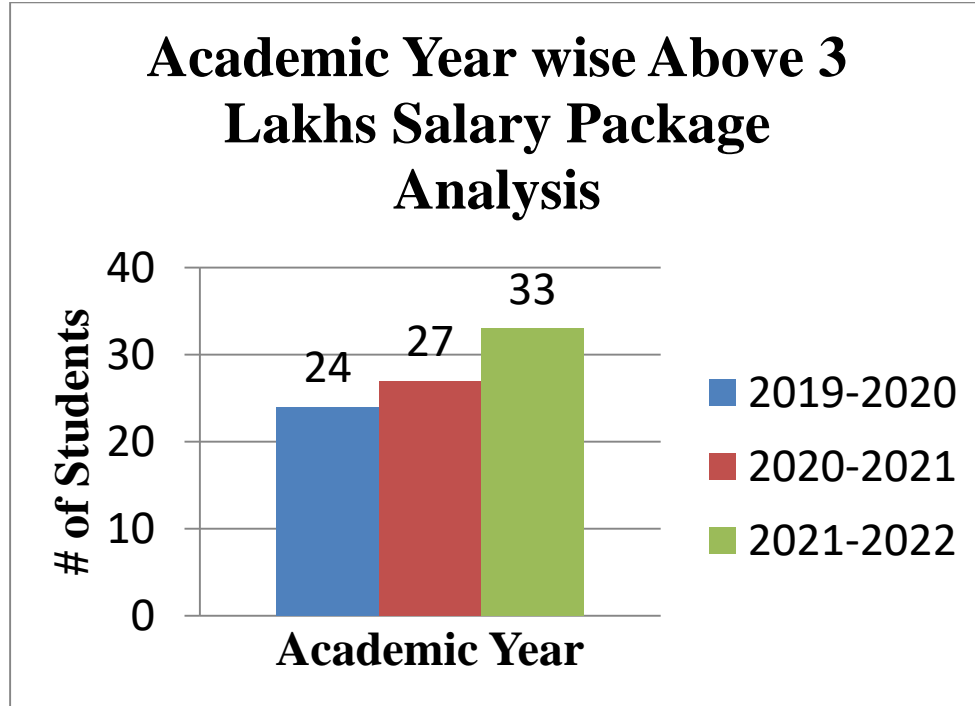


Fig.33.Academic Year wise Above 3 Lakhs Salary Package Analysis

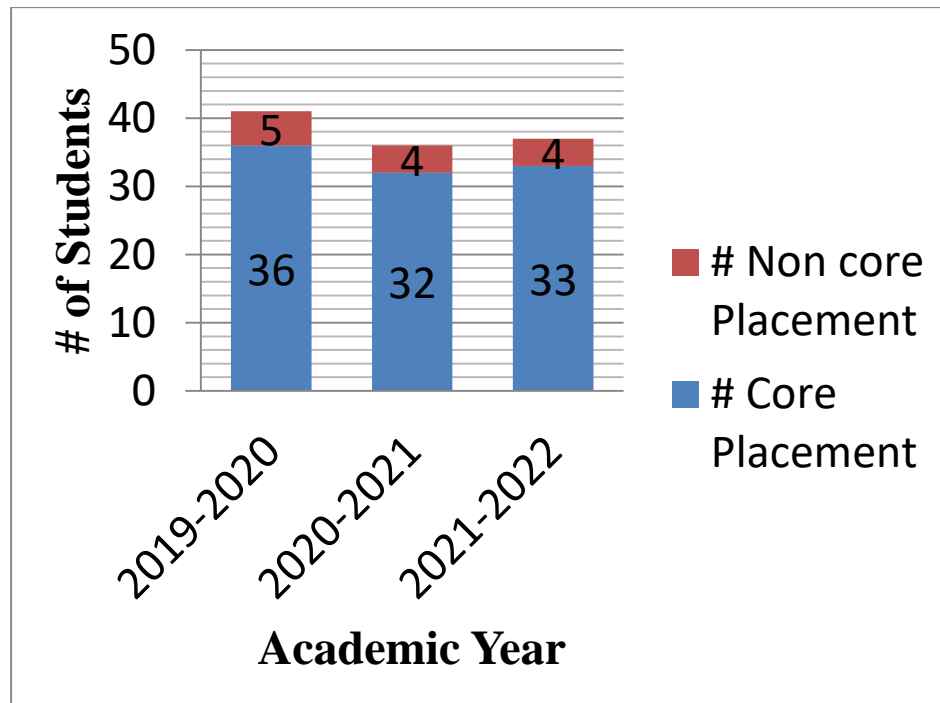


Fig.34.Core VsNon Core Placement Analysis

- Over the academic year number of students pursuing higher studies also improved which is presented. For the Ay 2019-2020, the no. of students got admission for pursuing higher study is 03, for the AY 2020-2021, the no. of students got admission for pursuing higher study is 03 and for the AY 2021-2022, the no. of students got admission for pursuing higher study is 06. The following Table.23. shows the details of the student pursuing higher studies over the academic year.

Table.23. Details of Academic year wise students pursuing Higher Studies

Academic Year	Sl.No.	Name of the Students with Batch Details	Pursuing Course Details	Details of pursuing Higher studies Institute by the Students
2019-2020	1	Padmavathi B (Batch 2015-19)	M.E. CSE	Anna University Chennai
	2	Krishna Kumar N(Batch: 2014-18)	M.S. Data Science	The University of Texas , Dallas
	3	Vyshalirajeswari G V(Batch: 2014-18)	MBA	Firebird Institute of Research in Management
2020-2021	1	Arivarasan K(Batch: 2013-17)	M.Tech. CSE	IIT (ISM), Dhanbad
	2	Ganesh Venkat(Batch: 2013-17)	M.S.(CSE)	Illinois University
	3	LaghuvarapuPavan Sri Harsha(Batch: 2016-20)	M.Tech. IT	Gannon University, Pennsylvania
2021-2022	1	Madhushree J(Batch:2017-2021)	M.E (Biometrics & Cyber Security)	PSG College of Technology
	2	Yogesh Loganath M(Batch:2017-2021)	MBA	Jansons School of Business, Coimbatore
	3	Priyadharsini K(Batch:2017-	MBA	Alagappa University

		2021)		
	4	Sandhiya S(Batch:2017-2021)	MBA	Alagappa University
	5	Rames Kriushnan S(Batch 2016-2020)	M.E	Riga Technical University, Latvia
	6	Kata Bharat(Batch 2016-2020)	MBA	BITS School of Management ,Mumbai

- The presented the action taken for the improvement of admission in program. Also he discussed about the academic year wise number of students admitted in the programme. The following Table.24. shows the academic year wise opening and closing score of regular and lateral entry students admitted in the program.

Table.24. Academic year wise opening and closing scores of regular and lateral entry students admitted in the program.

Item		2021-22	2020-21	2019-20
		AY	AY	AY
Regular students	<i>Opening score</i>	192	183.5	179.5
	<i>Closing score</i>	137.5	92.5	88
Lateral Entry students	<i>No. of students admitted</i>	06	02	00
	<i>Opening score</i>	90.96%	98.18%	-
	<i>Closing score</i>	64.8%	71.29%	-

Suggestion & comments by PA&QIC Members:

- The panel members suggested to verify the various performance indicators mentioned in AICTE for assessing POs.
- Also they suggested to improve the minimum salary package of the students will be placed in various reputed IT industry for the current batch.