RAMCO INSTITUTE OF TECHNOLOGY

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Accredited by NAAC & An ISO 9001: 2015 Certified Institution
NBA Accredited UG Programs: CSE, EEE, ECE and MECH

Department of Electrical and Electronics Engineering

Academic Year 2020 – 2021

Minutes of Meeting – 3rd Program Assessment & Quality Improvement Committee (PA&QIC)

Date of Meeting : 07.08.2021 (Saturday)
Time of Meeting : 9:30 AM to 2:30 PM
Reference : RIT/EEE/PA&QIC/03
Google Meet Link : https://meet.google.com/iqx-xoxa-zdu

Members Present:

Sl. No.	Name of the Faculty Member	Designation	PAQIC
1.	Dr. S. Kannan	Professor / EEE	Convener
2.	Dr. K. Karthikeyan	Associate Professor / EEE	Member
3.	Mr. D. Karthik Prabhu	AP(SG) / EEE	Member
4.	Mr. N. Ganesh	AP (SG) / EEE	Member
5.	Mrs. C. Subha	AP (SG) / Civil	Member
6.	Dr. M. Gomathynayagam	Associate Professor / CSE	Member
7.	Mrs. G. Gnanapriya	AP (SG) / ECE	Member
8.	Mr. J. Jerold John Britto	AP(SG) / Mechanical	Member
9.	Dr. T. Vigneshwari	AP (SG) / Physics	Member
10.	Mr. E. Thangam	AP (SG) / EEE	Representative
11.	Mr. S. Meenakshi Sundaravel	AP (SG) / EEE	Representative
12.	Mr. A. Arun Kumar	AP / EEE	Representative
13.	Mr. A. S. Vigneshwar	AP / EEE	Representative
14.	Mrs. S. Jeyanthi	AP / EEE	Representative
15.	Ms. S. Sharmila Kumari	AP / EEE	Representative
16.	Mrs. G. Sivapriya	AP / EEE	Representative
17.	Mr. A. Guna	AP / EEE	Representative

The agenda of the meeting

1. Review of Previous meeting – 2nd PA&QIC
2. Result analysis of 2019-2020 Even Semester & 2020-2021 Odd Semester
3. Program Curriculum and Teaching and Learning Process
4. Attainment of COs, POs, PSOs with program effectiveness (2019-2020)
5. Institute – Industry Interactions and its impact
6. Training and Placement Progress & Career Guidance Cell activities
7. Professional Societies and Technical Association: Participants and its inference
8. Internship & In-Plant Training
9. EDC, IIC and NISP Progress
10. Faculty participations / performance
11. Laboratory utilization with respect to OBE
12. Alumni Association Interactions
13. Continuous Improvements
14. Stakeholders Feedback and analysis: Students/Parents/Alumni/Recruiters
15. Any other matters

1. REVIEW OF PREVIOUS MEETING (2ND PA&QIC)

Presenter: Dr. K. Karthikeyan, ASCP/EEE

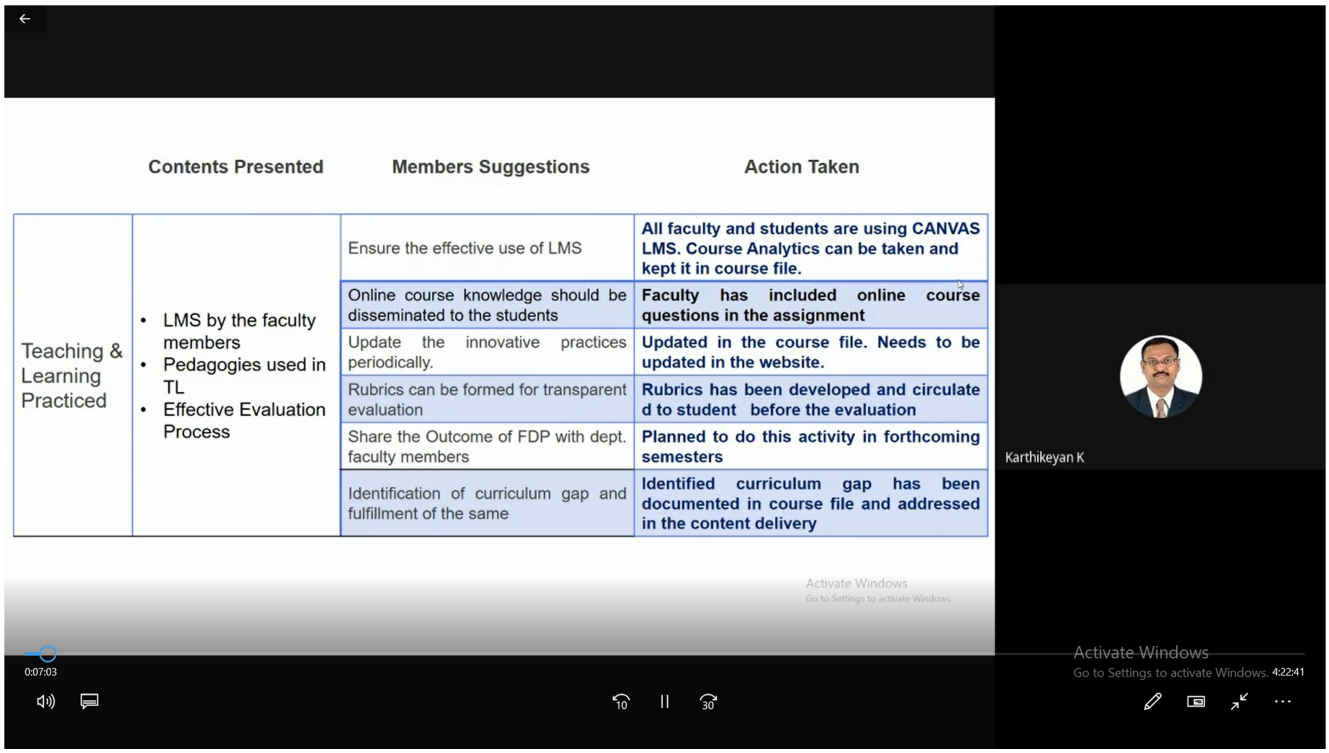
The contents discussed during the 2nd PAQIC meeting, suggestions given by the members and actions taken for those suggestions are presented under the following various headings.

- Teaching & Learning Practiced
- Result Analysis
- Assessment Methods, Attainment of CO, PO, PSO
- Virtual Lab Utilization
- Training & Placement
- Internship and IPT
- Professional Societies and Association
- Faculty Participation
- Project Proposal/ Research Publication
- Additional Lab
- EDC, IIC and Patents
- Quality improvement
- Stakeholder feedback

Suggestions given by the members

- In the actions taken by the department, wherever possible quantitative data can be provided.
- Each and every criteria presentation, the quantitative data has been provided.
- In addition to summary, some additional information can be given.
- The outcome of the FDP attended by the faculty can be shared with the other faculty members and students.

- The virtual laboratory has been applied for the two courses, but not has been selected and hence it has not been developed.



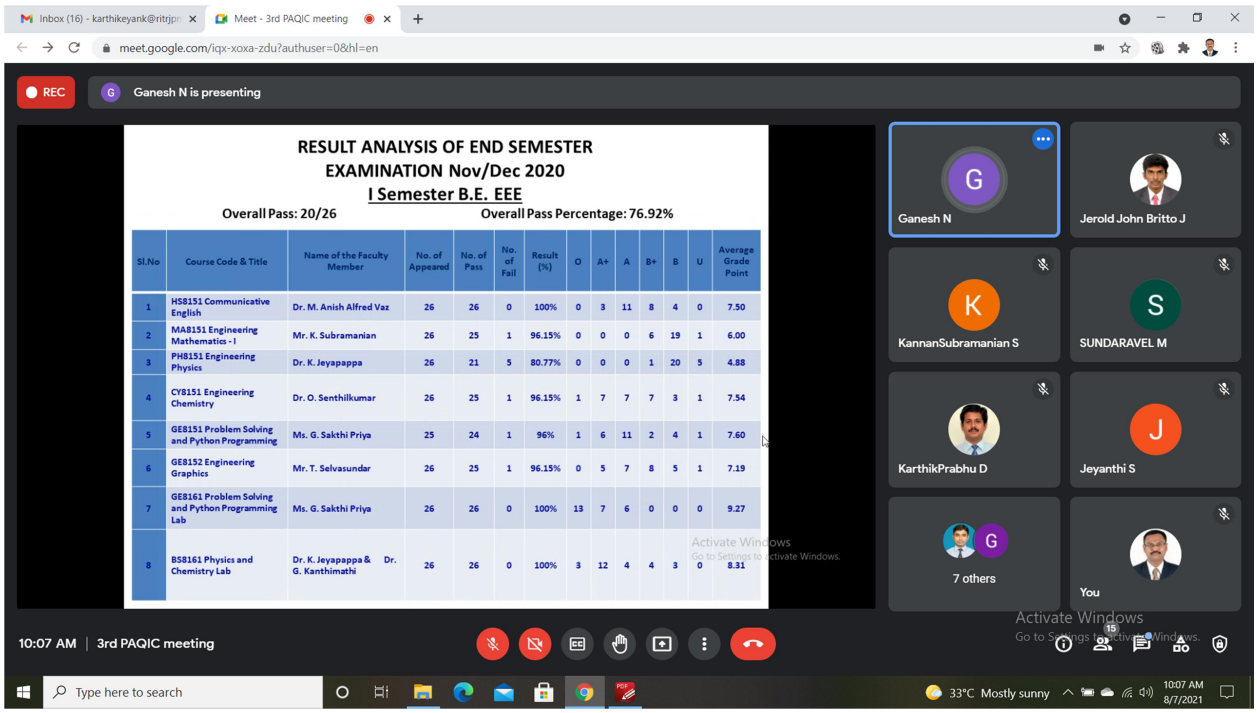
2. RESULT ANALYSIS OF 2019-2020 EVEN SEMESTER AND 2020-2021 ODD SEMESTER

Presenter: Mr. N. Ganesh, AP(SG)/EEE

- Presented the Grade Analysis of End Semester Examination 2019 – 2020 Even Sem II Semester, IV Semester and VI Semester B.E. EEE.
- Presented the Grade Analysis of End Semester Examination 2020 – 2021 Odd Sem I Semester, III Semester and V Semester and VII Semester B.E. EEE.
- Presented the reasons/remarks for the low pass percentage in the different subjects and also the overall pass percentage of the respective class.

Suggestions from the members:

- Members suggested planning corrective actions to improve the Average Grade Point (AGP) for the subjects with low pass percentage (less than 90 percent).
- Members suggested that the corrective action plan will help to attain the target level of Program Outcomes(POs) for those subjects with low pass percentage.
- Members asked about method of obtaining the reasons/remarks from the students.
- Members were explained in detail the process of obtaining the reasons/remarks from the individual students.



Sl.No	Course Code & Title	Name of the Faculty Member	No. of Appeared	No. of Pass	No. of Fail	Result (%)	O	A+	A	B+	B	U	Average Grade Point
1	HS8151 Communicative English	Dr. M. Anish Alfred Vaz	26	26	0	100%	0	3	11	8	4	0	7.50
2	MA8151 Engineering Mathematics - I	Mr. K. Subramanian	26	25	1	96.15%	0	0	0	6	19	1	6.00
3	PH8151 Engineering Physics	Dr. K. Jeyapappa	26	21	5	80.77%	0	0	0	1	20	5	4.88
4	CY8151 Engineering Chemistry	Dr. O. Senthilkumar	26	25	1	96.15%	1	7	7	7	3	1	7.54
5	GE8151 Problem Solving and Python Programming	Ms. G. Sakthi Priya	25	24	1	96%	1	6	11	2	4	1	7.60
6	GE8152 Engineering Graphics	Mr. T. Selvasundar	26	25	1	96.15%	0	5	7	8	5	1	7.19
7	GE8161 Problem Solving and Python Programming Lab	Ms. G. Sakthi Priya	26	26	0	100%	13	7	6	0	0	0	9.27
8	BS8161 Physics and Chemistry Lab	Dr. K. Jeyapappa & Dr. G. Kanthimathi	26	26	0	100%	3	12	4	4	3	0	8.31

3. PROGRAM CURICULUM, TEACHING AND LEARNING PROCESS

Presenter: Mrs. S. Jeyanthi, AP/EEE

Curriculum Gap Identification:

- The curriculum gap identification process was explained. For the same the department courses were divided in to three broad domains and domain coordinators were nominated.
- The domain wise meeting was conducted by the domain in charges and the faculty members were allotted with courses to identify the curriculum gap.
- The identified gaps were submitted to Anna University. The gap identification was course specific as well as curriculum specific.
- The sample of the identified curriculum gaps sent to Anna University has been presented in the slides.
- The curriculum gaps were sent to University Centre for Academic Courses in following aspects: (i) Addition of curricular content (ii) References to be included in the existing curriculum as well as for the proposed curriculum (iii) Rearrangement of courses in the curriculum to meet pre-requisites and (iv) Suggestion of new courses to cater the needs of industrial demands.

Content beyond Syllabus:

- It was decided in all the domain meetings to address the curriculum gap identified by planning content beyond syllabus in the respective courses and the same has to be mapped with corresponding POs, PSOs.
- The sample content beyond syllabus conducted by the faculty member for AY2020-21 has been presented in the meeting.
- The Anna University approved value added course on “Industrial Automation using PLC and SCADA” has been planned for our students to bridge the curricular gap identified.

Innovative Practices followed:

- The innovative practices followed in different courses were presented. Few sample practices are usage of virtual laboratory, Think-pair-share, Experiential learning and self-learning Assignments, and Industrial problem statement Assignment.

Actions taken for slow and bright learners:

- It was presented that the special classes have been conducted for the slow learners and the bright learners are encouraged to pursue online courses.

Feedback form for teaching and learning process:

- The sample feedback form for the faculty has been presented in the meeting.

Question paper quality improvement:

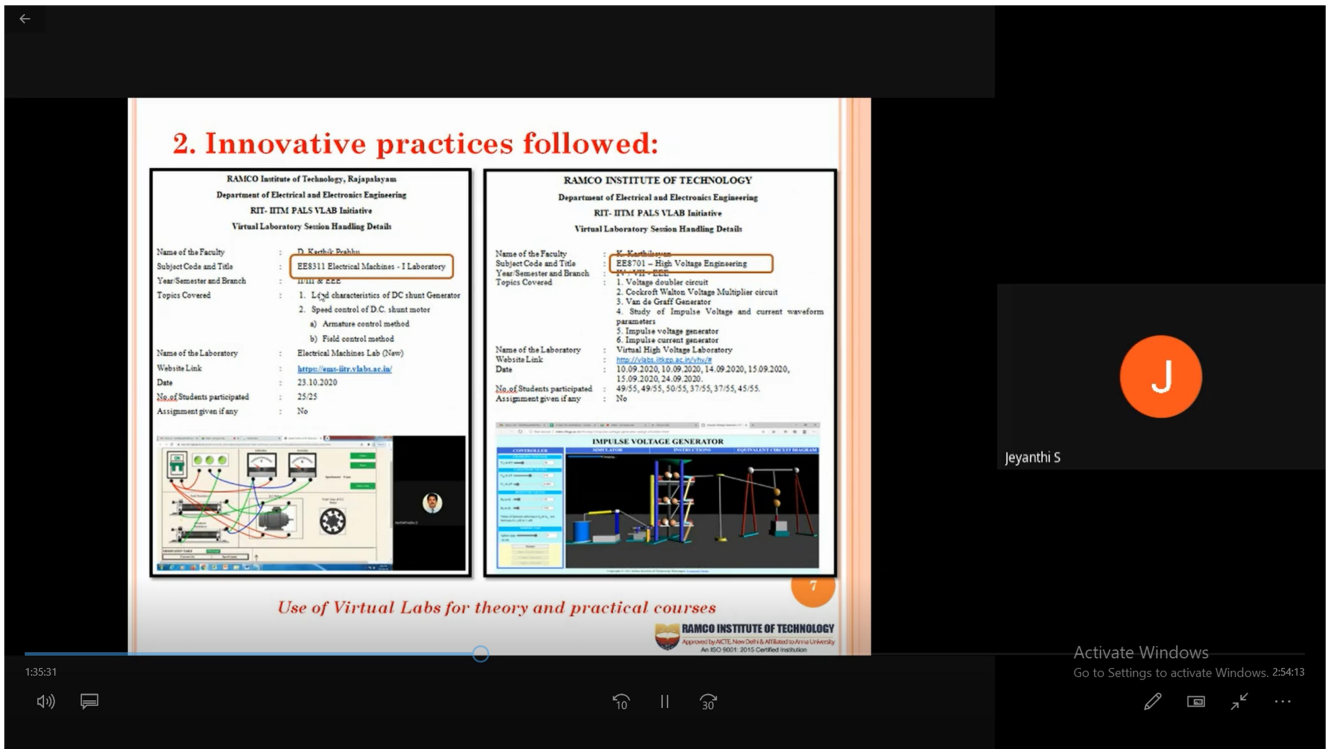
- It was presented that the quality of question papers for internal assessment tests are verified in two levels: (i) internal review by the Head of the department for all the subjects and (ii) centralized review by the external experts for few random subjects.
- The samples of suggestions given for the improving the quality of the question paper has been presented in the meeting.

Project review and assessment:

- The project assessment criteria and review process has been presented in the meeting.

Suggestions given by the members

1. Curriculum gap has been identified by the faculty member as well as from the alumni feedback. The external stack holder's feedback also can be taken for identifying the curriculum feedback.
2. The domain wise and subject wise curriculum gap can be identified using Alumni, Academicians, Industrial persons, and Final year students.
3. The core industry based value added courses can be given to the students. It will help the students to get placement in core industries.
4. Separate discussion may be given on Outcome of Value added courses and Innovative practices.
5. Try to measure the outcome of slow learners after conducting special classes.
6. Modern tool usage can be implemented for all subjects.
7. Few implementation proofs after getting feedback from students can be presented
8. Online simulation tools like MATLAB Software can be used for making the students to understand the concepts.



4. ATTAINMENT OF COs, POs, PSOs WITH PROGRAM EFFECTIVENESS (2019-20)

Presenter: Mr. A. Guna, AP/EEE

The points presented in the 3rd PAQIC meeting are as follows,

a. Assessment methods practiced in the last academic year.

Direct	Indirect
Internal Assessment Test 1,2,3, Assignment Quiz, Course Exit Survey	Alumni Exit survey, Program Exit survey

b. Course Exit Survey is newly included in the Academic year 2019 – 20.
10% weightage has been given to Course Exit Survey for calculating Course outcome for the individual courses.

c. Target Setting Procedure for CO Attainment – R 2013

Batch	Target Attainment
2013-2017 ($AGPA_1$) – R13	1.5 for Theory Courses & 2 for Laboratory Courses/Projects
2014-2018 ($AGPA_2$) – R13	Maximum of $((AGPA_1 \times 0.3), 1.5)$
2015-2019 ($AGPA_3$) – R13	Maximum of $\left(\left(\frac{(AGPA_1 + AGPA_2)}{2}\right) \times 0.3, (AGPA_2 \times 0.3)\right)$

2016-2020 ($AGPA_4$) – R13	Maximum of $\left(\left(\frac{(AGPA_1 + AGPA_2 + AGPA_3)}{3}\right) \times 0.3, (AGPA_3 \times 0.3)\right)$

d. Target Setting Procedure for CO Attainment – R 2017

Batch	Target Attainment
2017-2021 ($AGPA_1$) – R17	1.8 for Theory Courses & 2 for Laboratory Courses/Projects
2018-2022 ($AGPA_2$) – R17	Maximum of $((AGPA_1 \times 0.3), 1.8)$
2019-2023 ($AGPA_3$) – R17	Maximum of $\left(\left(\frac{(AGPA_1 + AGPA_2)}{2}\right) \times 0.3, (AGPA_2 \times 0.3)\right)$
2020-2024 ($AGPA_4$) – R17	Maximum of $\left(\left(\frac{(AGPA_1 + AGPA_2 + AGPA_3)}{3}\right) \times 0.3, (AGPA_3 \times 0.3)\right)$

e. Details of not attained courses – R 2013

Batch	Details of not attained courses
2013-2017	• CY6151 Engineering Chemistry – I • HS6251 Technical English – II • MA6251 Mathematics – II • CY6251 Engineering Chemistry – II • EE6201 Circuit Theory • MA6351 Transforms and Partial Differential Equations • EE6301 Digital Logic Circuits • EE6302 Electromagnetic Theory • GE6351 Environmental Science and Engineering • EC6202 Electronic Devices and Circuits • EE6303 Linear Integrated Circuits and Applications • MA6459 Numerical Methods • EE6401 Electrical Machines – I • CS6456 Object Oriented Programming • EE6402 Transmission and Distribution • EE6403 Discrete Time Systems and Signal Processing • EE6404 Measurements and Instrumentation • EE6502 Microprocessors and Microcontrollers • EE6503 Power Electronics
2014-2018	• GE6152 Engineering Graphics • MA6351 Transforms and Partial Differential Equations • EE6301 Digital Logic Circuits

	• EE6302 Electromagnetic Theory • EC6202 Electronic Devices and Circuits • EE6303 Linear Integrated Circuits and Applications • CS6456 Object Oriented Programming
2015-2019	• GE6263 Computer Programming Laboratory • EE6311 Linear and Digital Integrated Circuits Laboratory • CS6461 Object Oriented Programming Laboratory
2016-2020	• GE6151 Computer Programming • EE6211 Electric Circuits Laboratory • EE6311 Linear and Digital Integrated Circuits Laboratory

f. Details of not attained courses – R 2017

Batch	Details of not attained courses
2017-2021 up to VI semester	• MA8353 Transforms and Partial Differential Equations • EE8391 Electromagnetic Theory • EE8301 Electrical Machines – I • EC8353 Electron Devices and Circuits
2018-2022 up to IV semester	• MA8151 Engineering Mathematics – I • PH8253 Physics for Electronics Engineering
2019-2023 up to II Semester	-

g. Details of CO-PO Mapping for the batch 2013-2017, 2014-2018, 2015-2019, 2016-2020

PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Map.	2.6	2.0	1.8	1.5	1.6	2.0	1.9	1.2	2.2	1.5	1.7	1.5

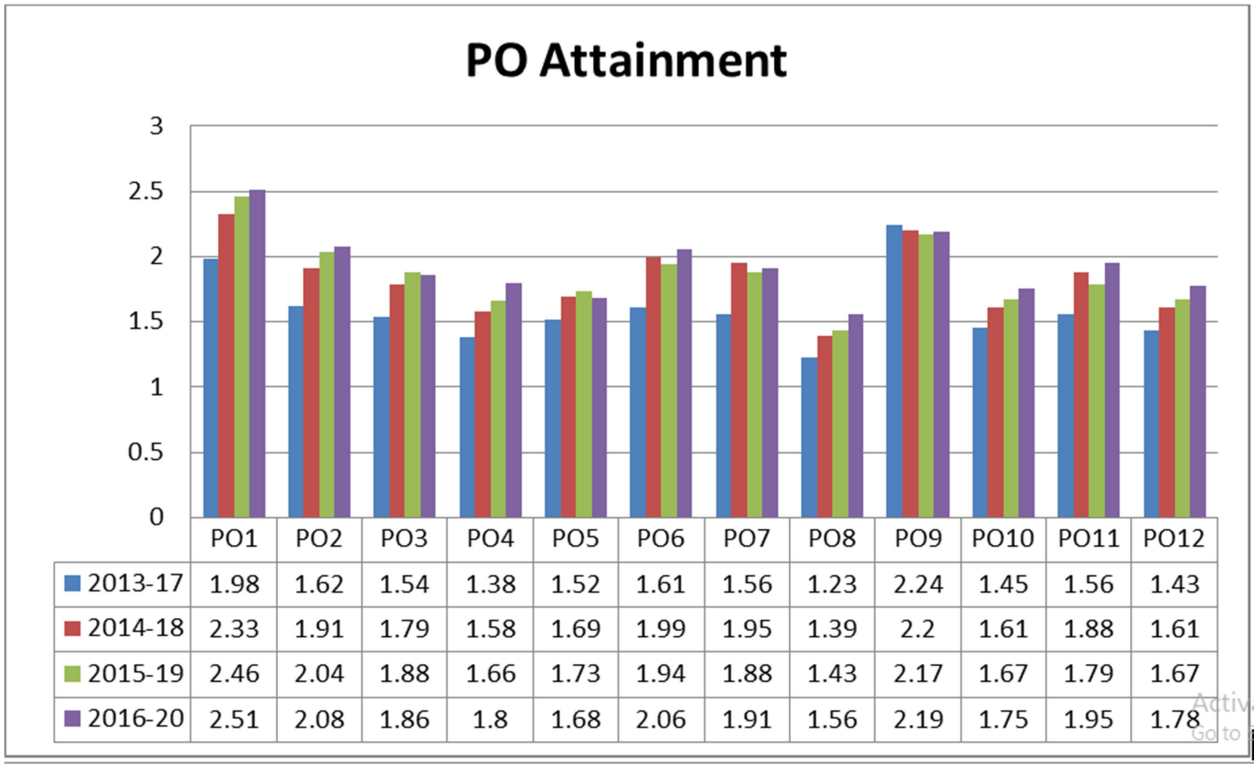
h. Details of CO-PSO Mapping for the batch 2013-2017, 2014-2018, 2015-2019, 2016-2020

PSO	PSO1	PSO2	PSO3	PSO4
Map.	2.0	1.7	1.6	1.4

i. Target Setting Procedure for PO & PSO Attainment – R 2013

Batch	PO / PSO Target
2013-2017	1.5
2014-2018	1.6
2015-2019	1.7
2016-2020	1.8

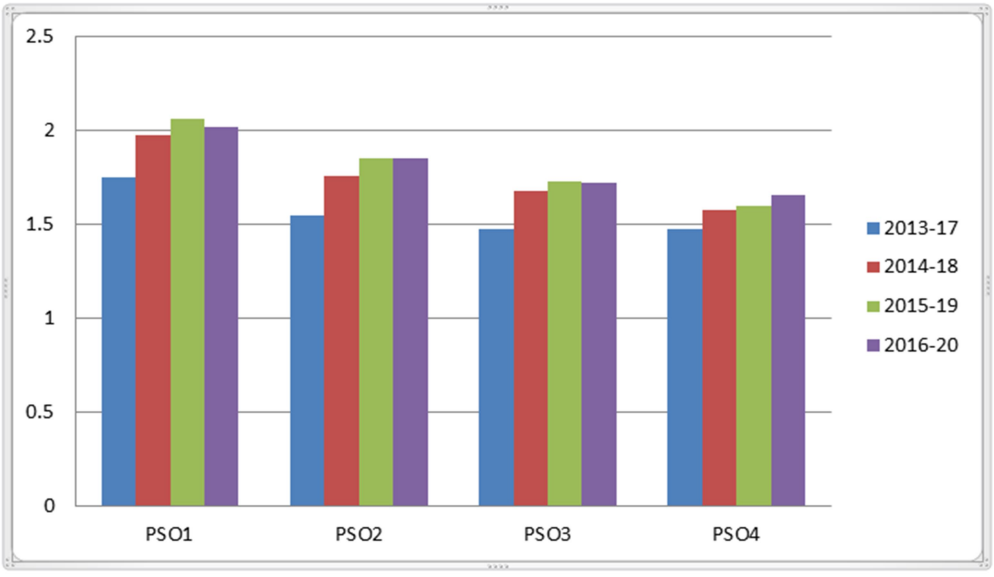
j. Details of PO Attainment

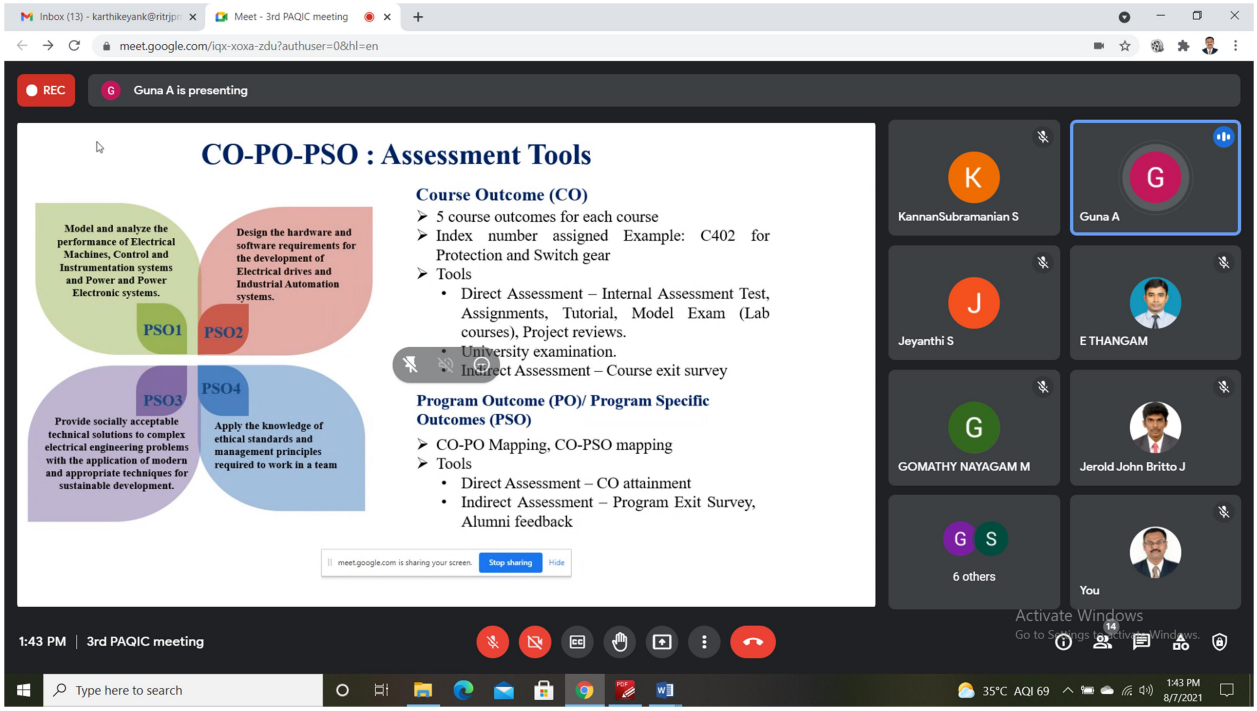


	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
2013-17	1.98	1.62	1.54	1.38	1.52	1.61	1.56	1.23	2.24	1.45	1.56	1.43
2014-18	2.33	1.91	1.79	1.58	1.69	1.99	1.95	1.39	2.2	1.61	1.88	1.61
2015-19	2.46	2.04	1.88	1.66	1.73	1.94	1.88	1.43	2.17	1.67	1.79	1.67
2016-20	2.51	2.08	1.86	1.8	1.68	2.06	1.91	1.56	2.19	1.75	1.95	1.78

k. Details of PSO Attainment

BATCH	PSO ATTAINMENT			
	PSO1	PSO2	PSO3	PSO4
2013-2017	1.75	1.55	1.48	1.48
2014-2018	1.98	1.76	1.68	1.58
2015-2019	2.06	1.85	1.73	1.60
2016-2020	2.02	1.85	1.72	1.66





5. INDUSTRY INSTITUTE INTERACTIONS AND ITS IMPACT & INTERNSHIP AND IN-PLANT TRAINING

Presenter: Mr. E. Thangam, AP (SG) / EEE

i. Industry Institute Interactions and its Impact

a) Industry Institute Interactions Lecture conducted in the academic year 2021-2022

S.No	Name of the Resource Person & Address	Program Name	Date & Duration
1.	Mr. Harisankar KSB Electrical Engineer Sidel India Pvt Ltd Gurgoan, India	Huge career opportunities for EEE Students	06.08.2021 1 hour 30 minutes
2.	Aiswarya V Analyst / Software Engineer Capgemini, Bangalore	C language Training to the students	26.07.2021, 27.07.2021, 29.07.2021 3 days
3.	Mr. S. Pon athipan Assistant System Engineer TCS, Chennai	Industry Lecture on "TCS Interview Experience and Selection Process"	25.12.2020 2 hours 30 minutes
4.	Mr. V. Roshan Assistant Manager – E&I The Ramco Cements Limited Andhrapradesh	Industry Lecture on "Energy Conservation Activities in Industry Premises"	04.10.2020 3 hours
5.	Mr. R. Muthu Vijaya Kumar Byjus, Bangalore	How to Crack Aptitude	22.12.2020 3 hours

6.	Mr. K. V. Vinoth Kumar, Contracts Manager – Fuels and Lubricants Value Chain, ExxonMobil India Private Ltd, Bangalore	Guest lecture on "Design Thinking and Innovation"	29.08.2020 (2 hours)
7.	Mr. N. Pothirasan, Director Hasan Medicare, Rajapalayam	Projects and Guidelines for MSME Project Proposal	11.10.2020 (2 hours)
8.	Mr. A. Mohamed Sameer, Senior Engineer, Plant Maintenance, Rane NSK (P) Ltd, Chennai.	Session Chair (Industry Expert) National Web Conference on Challenges and Innovation in Engineering and Technology - 2021	19.03.2021 (2 hours)
9.	Ms. K. Muthu Priya Dharshini, Byjus, Bangalore	Empower Employment training programme on How to Crack Aptitude	29.12.2020 (2 hours)
10.	Mr. R. Muthu Vijaya Kumar Byjus, Bangalore	How to Crack Aptitude	22.12.2020 3 hours
11.	Mr. R. Muthu Vijaya Kumar Byjus, Bangalore	Empower Employment training programme on How to Crack Aptitude	06.01.2021 (2 hours)
12.	Mr. V. Roshan, Assistant Manager –E&I The Ramco Cements Limited, Andhra Pradesh.	Session Chair (Industry Expert) National Web Conference on Challenges and Innovation in Engineering and Technology - 2021	19.03.2021 (2 hours)
13.	Mr. G. Chandru, System Engineer, Data Patterns India (P) Ltd, Chennai	Session Chair (Industry Expert) National Web Conference on Challenges and Innovation in Engineering and Technology - 2021	20.03.2021 (2 hours)
14.	Mr. J. Jeyavigneshkumar, Design Engineer, Ford Motor Company (P) Ltd, Chennai	Session Chair (Industry Expert) National Web Conference on Challenges and Innovation in Engineering and Technology - 2021	20.03.2021 (2 hours)
15.	Dr. N. Pothirasan, Director, Hashan Medicare, Rjpm.	Project Reviewer – External	17.03.2021, 22.02.2020 2 days
16.	Mr. Ragupathi Muthu Director, Minniyal Pvt Ltd, Krishnankoil	Project Reviewer – External	22.02.2020 1 day

17.	Mr.M.Murali Kumar, Engineer, Data Patterns India Pvt., Ltd., Chennai	Webinar on the topic Digital Electronics	20.09.2020 2 hours
18.	Mr. A. Govindasamy, SMTS, AMD, Bangalore Mr.N. Pothirasan, Hashan Medicare	Webinar on "Industry Institute Interaction on Microprocessor Challenge"	30.08.2020 3 hours
19.	Mr. M.Jaganathan, Quality Assurance Engineer, Oracle India Private Limited, Bangalore	Webinar on "How to face an Interview and Technical requirement for different IT job portfolio"	23.08.2020 3 hours
20.	Mr. Senthil Ramachandran, Senior Director, Capgemini, Bangalore	Webinar on "Applied AI and Machine Learning use cases for Enterprises"	13.06.2020 2 hours
21.	M. K. Kumaresan, Network Consultant, CISCO systems, Bangalore,	Webinar on "Digital Transformation"	03.06.2020 1 hour 30 minutes
22.	Mr. P. Prem Kumar, Test Engineer, Tessolve Semiconductor Pvt Ltd, Bangalore	Webinar on "Overview of IC Fabrication Cycle and Basics of Post Silicon Validation"	08.06.2020 1 hour 30 minutes
23.	Ms. Jothi Sekaran, Senior Project Manager HP R&D, Bangalore	Software Qualification as a career	09.06.2020 2 hours
24.	Mr.Ganesh Narayanan, Accenture, Singapore	Cyber Security	11.06.2020 2 hours

b) EEE Department MoU's with 24 Industries

- Ramco Group of Textile Division, Rajapalayam
- Gowri House Metal Works, Rajapalayam
- Minniyal Private Limited, Krishnankoil
- Dynamic TEK, Chennai.
- MEDSBY Healthcare AND Engineering Solutions, Coimbatore.
- TVS training and services, Chennai.
- Ramco Cements Ltd., Chennai.
- Ramco systems Ltd., Chennai.
- Ramco Industries Ltd., Chennai.
- TCSion, Chennai.
- M.S. Chellamuthu Trust,Madurai
- Enthu Technology Solutions India Private Limited, Coimbatore
- Crystal Delta, Chennai
- Geons Logix

- Tessolve Semiconductor Pvt. Ltd., Bangalore
- NI Systems Private Limited, Bangalore
- Imarticus Learning Pvt Ltd
- Great Learning
- Aravind Herbal
- Eureka education group
- V-Invent Chemilab Private Limited, Rajapalayam
- Raja Nursery Garden, Rajapalayam.
- TRY CAE
- Skill Shark

c. Impact Analysis

S.No.	Name of the Company	Impacts
1.	Tessolve Semiconductor Pvt. Ltd., Bangalore	5 students got placed in Tessolve semiconductors Pvt Ltd, Banglore (2014-2018 – 1 student), (2015-2019 – 1 student), (2016-2020 – 1 student), (2017-2021 – 2 Students)
2.	The Ramco Cements Ltd., Chennai	10 students got placed in Ramco Cements Limited (2013-2017 – 1 student) (2014-2018 – 3 students) (2015-2019 – 3 students) (2016-2020 – 3 students)
3.	Minniyal Private Limited, Krishnankoil	8 students have completed their final projects
4.	Ramco systems Ltd., Chennai	20 students placed in Ramco Systems, Chennai (2013-2017 – 1 student) (2014-2018 – 9 student) (2015-2019 -7 students) (2016-2020 – 3 students)
5.	Ramco Group of Textile Division, Rajapalayam	5 students placed in Ramco group textile division (2013-2017 – 5 students), (2016-2020 – 1 student) Display Equipment are being used for taking demonstration classes
6.	MEDSBY Healthcare AND Engineering Solutions, Coimbatore	Students are allowed to attend the 3D printing classes in the medsby 3D printer
7.	Enthu Technology Solutions India Private Limited, Coimbatore	Industrial Visit - 55 students have underwent Industrial visit to Enthu technologies, Bangalore
8.	NI Systems Private Limited, Bangalore	CLAD Training - Intensive training is being given to the students to get CLAD certificate by NI Labview
9.	V-Invent Chemilab Private Limited, Rajapalayam	Industry Projects - we are working for a project called automatic wall painting

d. Industry Supported Laboratories

- NI Lab view Academy - Year of Establishment - 2015
- Tessolve Semiconductor Test Engineering Laboratory - Year of Establishment – 2017
- RIT MEDSBY Innovation Centre - Year of Establishment - 2019
- e-yantra Laboratory - Year of Establishment – 2019
- Rajapalayam Mills Limited supported Renewable Energy Sources Laboratory - Year of Establishment – 2020

c. Initiatives – Mentoring by Industry Alumni

Batch: 2018-2022

S. No.	Reg.No	Name of the Student	Mentor from Alumni
1.	953618105001	AJEETHA A M Ph.No: 6374313513	Mrs. T. Saahithya (2013-2017) Software Developer, TCS, Chennai Ph.No: 8870640917
2.	953618105002	ARAVINDH M Ph.No: 9360775762	Mr. M. Selvamani (2013-2017) Software testing, Amazon Services Chennai Ph.No: 9003814855
3.	953618105003	DIVYAJEYASHREE V Ph.No: 6384021047	Ms. G. Yashaswini (2016-2020) Software Engineer, Aspire Systems (India) Pvt Ltd, Chennai Ph.No: 8838784471
4.	953618105004	GOVINDARAJ M Ph.No: 7305367833	Mr. M. Selvamani (2013-2017) Software testing, Amazon Services Chennai Ph.No: 9003814855
5.	953618105005	HARIHARAN G Ph No: 8300326101	Mr. Mohankumar K (2013-2017) Software Engineer, Techmahindra, Bangalore Ph.No: 7418902531
6.	953618105006	HARI RAM M Ph.No: 7550384625	Mr. A. Athmanathan (2013-2017) Software Integration Engineer Stellantis Pvt. Ltd, Chennai Ph.No: 9443821677
7.	953618105007	HEMANTH N Ph.No: 9344608885	Mr. Mohankumar K (2013-2017) Software Engineer, Techmahindra, Bangalore Ph.No: 7418902531
8.	953618105008	JEYA KRISHNA B Ph.No: 9360021962	Mr. M. Thangavelpandi (2014-2018) Assistant Manager, The Ramco Cements Limited, Andhra Pradesh. Ph.No: 8760594306
9.	953618105009	JEYASRI NIVETHA R Ph.No: 6381154922	Ms. G. Yashaswini (2016-2020) Software Engineer, Aspire Systems (India) Pvt Ltd, Chennai Ph.No: 8838784471
10.	953618105010	KEERTHANA S Ph.No: 6383319294	Ms. G. Yashaswini (2016-2020) Software Engineer, Aspire Systems (India) Pvt Ltd, Chennai Ph.No: 8838784471
11.	953618105011	KRITHIKA P Ph.No: 6382455629	Mrs. T. Saahithya (2013-2017) Software Developer, TCS, Chennai Ph.No: 8870640917
12.	953618105012	LAKSHMI M Ph.No: 6369066714	Ms. Aishwarya (2016-2020) Analyst/ Software Engineer Cape Gemini Ph.No: 9940692772
13.	953618105013	MANI KANDAN S Ph.No: 7339596261	Mr. A. Mohamed Sameer (2014-2018) Senior Engineer, Plant Maintenance, Rane NSK (P) Ltd, Chennai.

			Ph.No: 9944191668
14.	953618105014	MOHAMED HAJI ALI M Ph.No: 9003650213	Mr. J. Jeyavigneshkumar (2014-2018) Design Engineer, Ford Motor Company (P) Ltd, Chennai Ph.No: 9514332534
15.	953618105015	MUTHU KRISHNAN S Ph.No: 9629727605	Mr. V. Roshan, (2014-2018) Assistant Manager –E&I The Ramco Cements Limited, Andhra Pradesh. Ph.No: 9655789167
16.	953618105016	MUTHU RANI M M	Ms. A. Harishmaa, (2015-19) Infosys, Chennai Ph.No: 7904968458
17.	953618105017	NANDA KUMAR B	Mr. R. A. Nijanthan Raja, (2015-19) TCS, Bangaluru Ph.No:8489262026
18.	953618105018	RAJAKEERTHANA J	Ms. A. Harishmaa, (2015-19) Infosys, Chennai Ph.No: 7904968458
19.	953618105019	RAKESHKANNAN R	Mr. M. Muralikumar, (2013-2017) Data Patterns, Chennai Ph.No: 9715605917
20.	953618105020	ROHINI M I	Ms. G. Muthulakshmi, (2015-19) TCS, Chennai Ph.No: 9943722031
21.	953618105022	SATHYA K	Mr. S. Pon Athiban, (2015-19) TCS, Chennai Ph.No: 8056829040
22.	953618105023	SENTHILKUMAR S	Mr. M. Muralikumar, Data Patterns, Chennai (2013-2017 batch)
23.	953618105024	SOLAI PRIYADHARSHINI A	Ms. G. Muthulakshmi, (2015-19) TCS, Chennai Ph.No: 9943722031
24.	953618105025	SRI VARSHINI T	Ms. R. Vasumathi, (2015-19) Studying M.E. in PSG Tech, Coimbatore Ph.No: 9025971602
25.	953618105026	UGESH V R	Mr. S. Pon Athiban, (2015-19) TCS, Chennai Ph.No: 8056829040
26.	953618105027	VISHNURAM P	Mr. V. Roshan, (2014-2018) Ramco Cements, Andrapradesh, Ph.No: 9655789167
27.	953618105301	MUTHUGANESAN S	Mr. R. Radhkrishnan, (2014-2018) Voltech Engineering, Chennai Ph.No: 8220108788
28.	953618105302	RAJ KUMAR R	Dr. Prem Kumar, Power System Consultant, Gulf country, Mr. R. Radhkrishnan, (2014-2018), Voltech Engineering, Chennai Ph.No: 8220108788

29.	953618105303	VINODH S	Mr. R. Dinesh Kumar, (2014-2018) Shiyam Infotech, Chennai Ph.No: 6383397953

ii. Industrial Training / Internship

As per Anna University Regulation 2017, Clause 4.5

a. The students may undergo Industrial training for a period as specified in the Curriculum during summer / winter vacation. In this case the training has to be undergone continuously for the entire period.

b. The students may undergo Internship at Research organization / University (after due approval from the Department Consultative Committee) for the period prescribed in the curriculum during summer / winter vacation, in lieu of Industrial training.

a. Department Consultative Committee Members

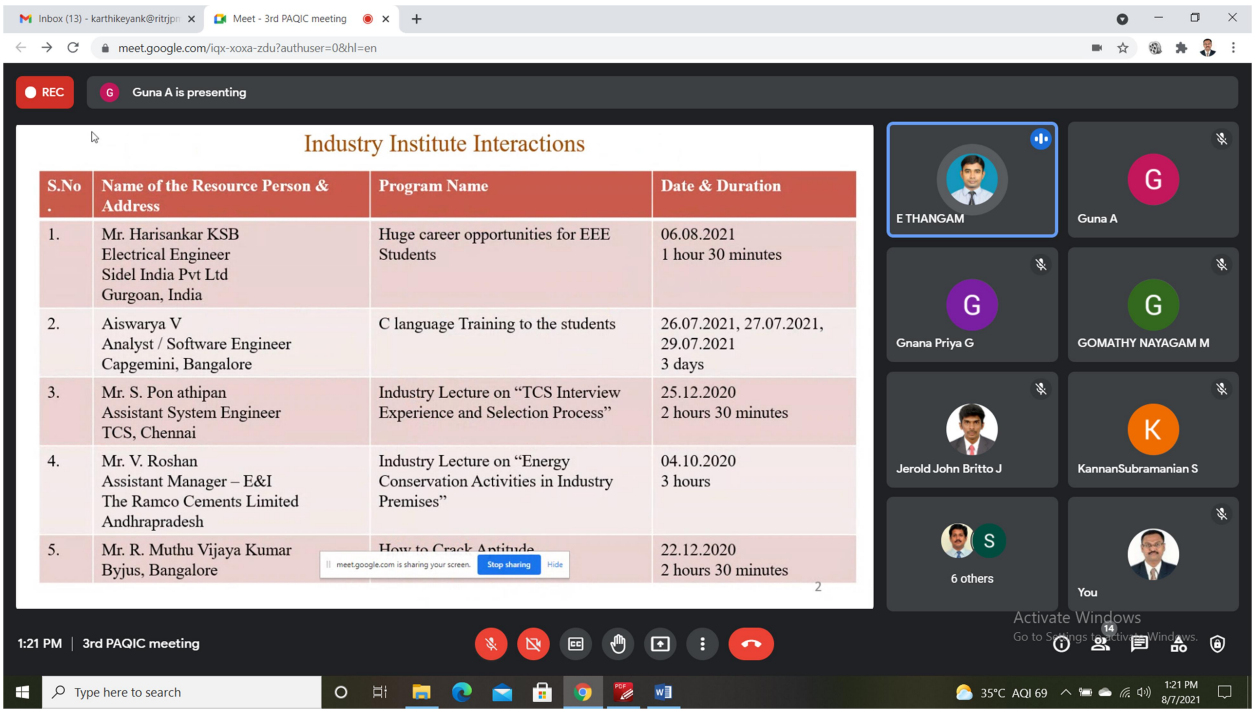
S.No	Name of the Faculty member	Designation	Position
1.	Dr.S. Kannan, Ph.D.	Professor and Head (EEE)	Head
2.	Dr. K. Karthikeyan, Ph.D.	Associate Professor/EEE	Member
3.	Mr. D. Karthik Prabhu, M.E	Assistant Professor (Sr.Gr) / EEE	Member
4.	Mr. E. Thangam, , M.E	Assistant Professor (Sr.Gr) / EEE	IPT & Internship In-charge
5.	Mr. S . Meenakshi Sundaravel, M.E	Assistant Professor (Sr.Gr) / EEE	Member

b. Industrial Training / Internship Progress as on 2020-2021 Academic Year

Sl. No	Batch	Class Strength	No of Students Underwent Industrial Training	No of Students satisfied the University requirement*
1.	2017-2021	55	55	55
2.	2018-2022	29	28	12
3.	2019-2023	33	05	05
* - As per university requirement, all the students shall undergo a minimum of 2 weeks Industrial Training				

Suggestions given by the members

- Improve the participants of the students in Internship.
- The students can be encouraged to do internship in MoU signed companies.
- The number of virtual internship opportunities are available and the students can be encouraged to do such virtual internship.
- The RIT power house can be approached for one-week Internship for our students.
- Mentors are requested to encourage their students to do Internship.



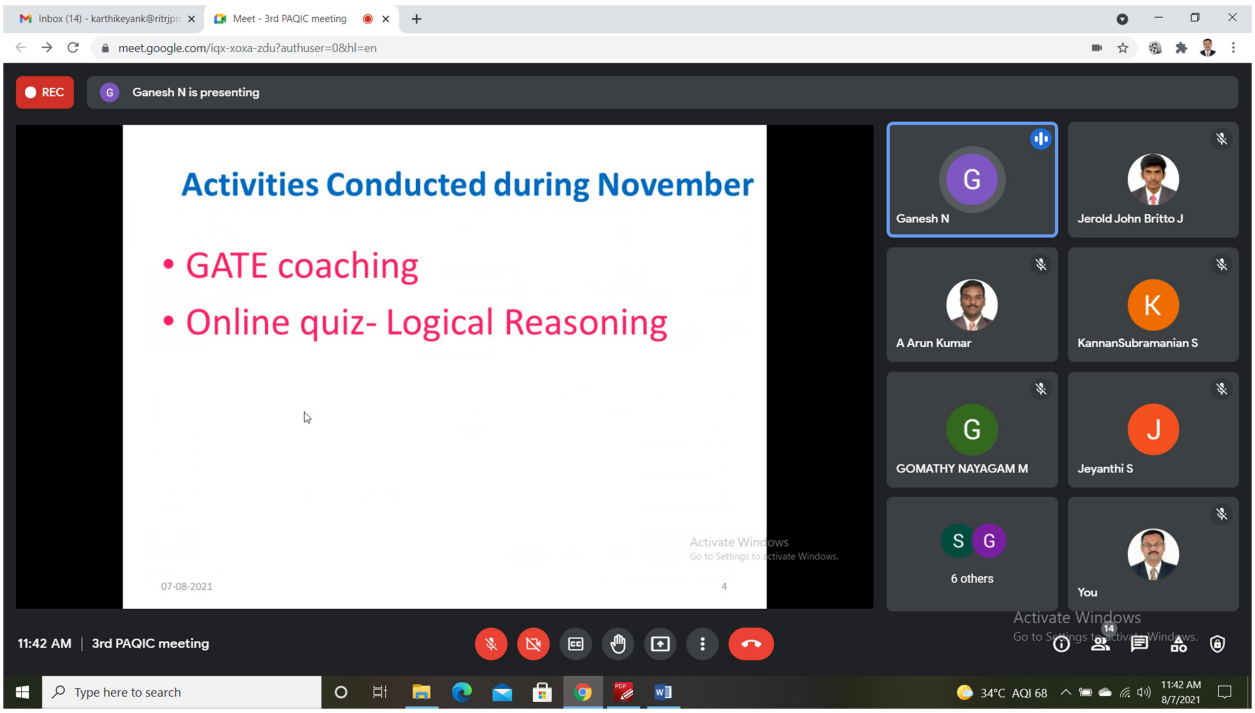
6. CAREER GUIDANCE CELL

Presenter: Mr. N. Ganesh, AP(SG)/EEE

- Presented the Quality Objectives of Career Guidance Cell (CGC), members of CGC, activities conducted such as GATE coaching, Online quiz- Logical Reasoning, an Awareness program titled "How to Face TNPSC Group 1 Exam", a webinar titled "Design Thinking – An Interdisciplinary Domain" and a webinar titled "Huge Opportunities and Emerging Newer Scope for all Core Branch Talented Engineers in India".
- Explained the reasons for the programs which were planned but not conducted such as webinar on "Diversified Career Opportunities in Government and Private sectors" and Japanese Language Training for the students.

Suggestions from the members:

- Members suggested giving the details of the student who have cleared State/ National/ International level examination (NET/SET/GATE/ GMAT/CAT/GRE/TOFEL/ Civil Services/ State Government Services).
- Members asked the members of Career Guidance Cell to conduct programs to support the Training and Placement Cell.
- Members asked about the functions of Career Guidance Cell (CGC).



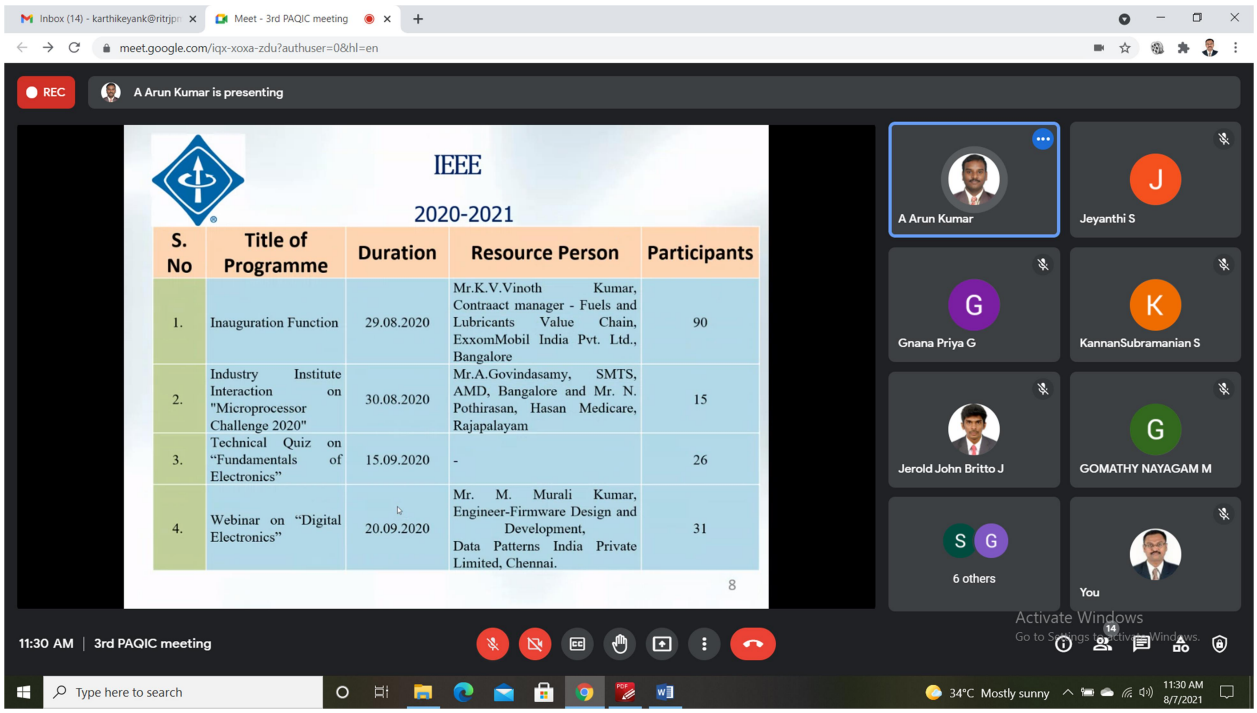
7. PROFESSIONAL SOCIETIES AND TECHNICAL ASSOCIATION: PARTICIPANTS AND ITS INFERENCE

Presenter: Mr. A. Arun Kumar, AP/EEE

- The co-curricular activities carried out during this academic year has been presented.
- The number of activities conducted by professional society IE(I) and IEEE are 29 and 12 respectively.
- The student technical association has conducted 6 events.
- The various type of activities has been conducted namely technical webinar, photographic contest, technical quiz, Industry interaction, Guest lecture, Memes contest, Workshop, Poster competition, group discussion and alumni interaction etc.
- The number of students benefitted from each society event has also been included in the slides.

Suggestion by the members

- The report has to be prepared with PO for each event so that it can be used for future PO attainment.
- The PO corresponding event can be included in the slides.
- Suggested that number of students benefited from each society should be included in final summary table.
- The college level societies for ISTE participations also can be included in the slides.
- The IUCEE, IITM PALS activities can be presented as a special case.
- Each society can plan separate events and repeated events can be avoided in the future.
- The feedback for the events given by the students can be analyzed.



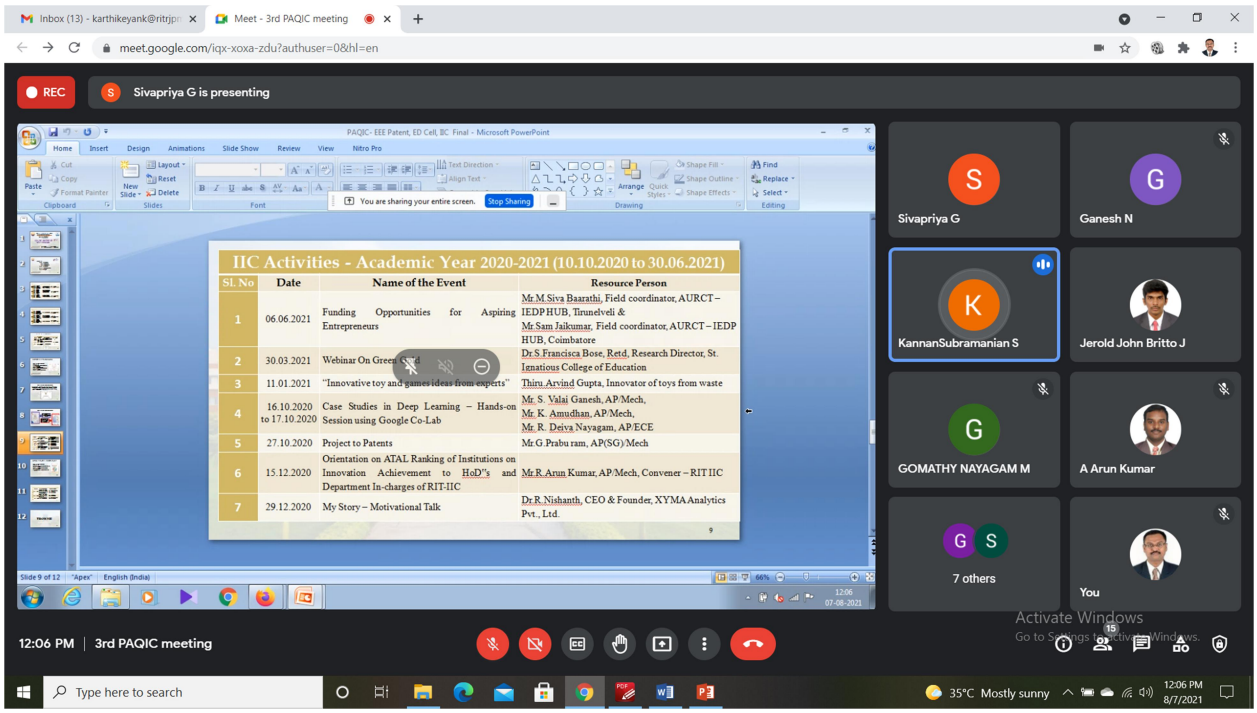
8. EDC, IIC & NISP

Presenter: Mrs. G. Sivapriya, AP/EEE

- The details of the patent filed, ED cell & Institution Innovation Council activities and NISP progress has be presented.
- One patent has been granted and five patents has been published.
- The college level ED cell activities has been presented along with our students and faculty members participation.
- The details of the faculty and student participation in IIC activities has been presented.
- The establishment of NISP and its activities are presented.

Suggestions given by the members

- The student participation in the technical contest has been included in the slides.
- The hackathon events can be included in the slides along with event results.
- Encourage students to participate in more number of activities in future.
- The department participations only can be included in the presentation; the college level participations can be avoided.
- The faculty and student participation counts can be included in the presentation.
- The outcome of the completed events can be analyzed and included in the presentation.



9. FACULTY PARTICIPATION AND PERFORMANCE

Presenter: Mr. D. Karthik Prabhu, AP(SG)/EEE

- Presented the faculty cadre ration, student faculty ratio, faculty publication and research proposal submission, patent details and awards applied details for the academic year 2020-2021
- Program participation is categorized into FDP, STTP, ATAL course, workshop, IITM PALS, IUCEE webinar, certification courses, training program and briefed the online course completion by the faculty and appearance as resource person in the events

Remarks from Members:

- Members suggested to refer the guidelines given by AICTE, NAAC and NBA for student's faculty ratio and maintain accordingly.
- Members insisted for applying awards can be improved. At least for the awards one batch can be applied for both students and faculty category.
- Members asked to include the comments received during the Faculty performance appraisal.
- Members suggested to compare the participation by the faculty members for the last two academic years for analyzing the improvement.
- Members suggested to create a simple mechanism to track the faculty participants so that all the participation will come into account.

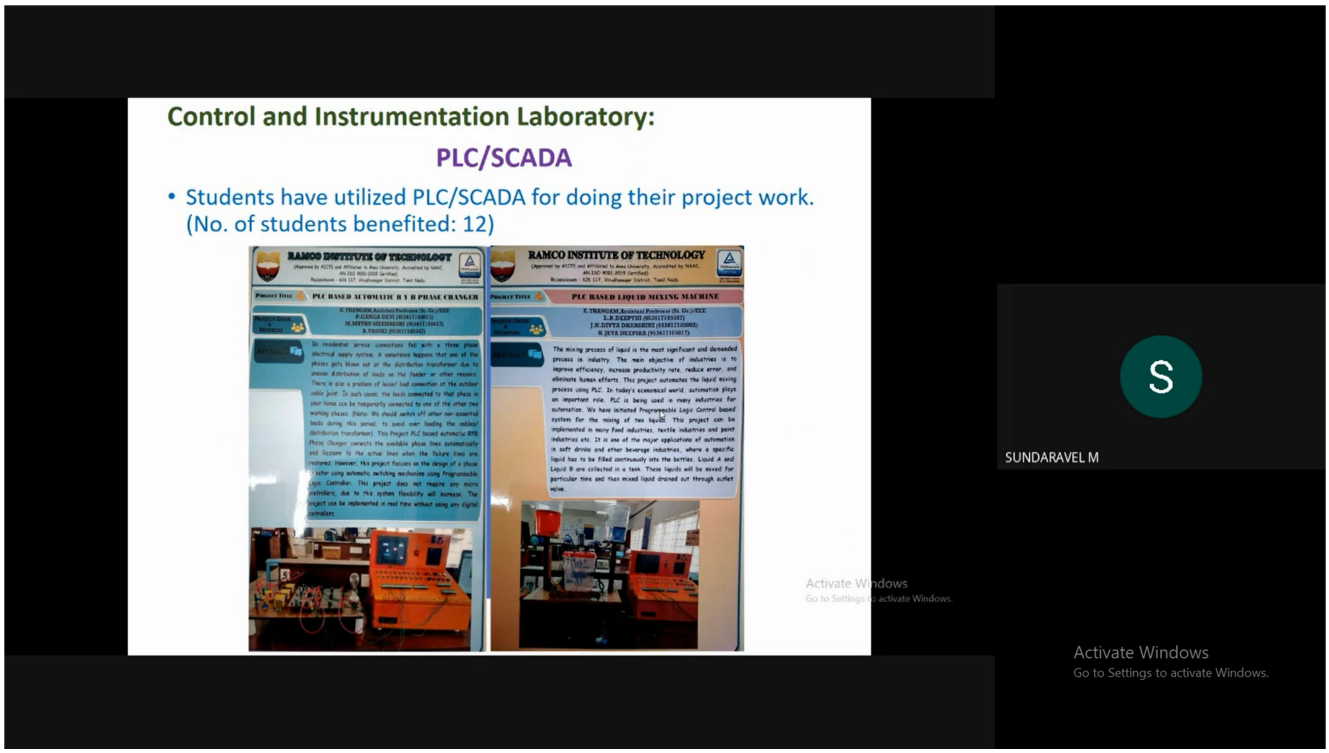
10. LABORATORY UTILIZATION BASED ON OBE

Presenter: Mr. S. Meenakshi Sundaravel, AP(SG)/EEE

- Students have utilized PLC/SCADA for doing their project work. (No. of students benefited: 12)
- Received approval for Rs. 2 Lakhs to procure 10 numbers of PLC (Siemens made) for providing industrial training to the students.
- NI LabVIEW Training program with Internship, Project and CLAD certification have been conducted for Final year students of EEE, ECE and Mechanical from 22.02.2021 to 14.05.2021.
- Training has been given to 10 Students in LGLiteATE kit at Tessolve Semiconductor Test Engineering Laboratory and out of which 2 students got placed in Tessolve Semiconductor Industry, Bengaluru.
- Power Quality Analyser have been utilized while conducting regular practical classes.
- Arduino boards, Raspberry Pi boards and various sensors and tools have been utilized by the students for doing their Mini and Major project works.

Suggestions by the Expert Members

- The PO mapping for the laboratory utilization can be done.
- The record for the laboratory utilization can be created.



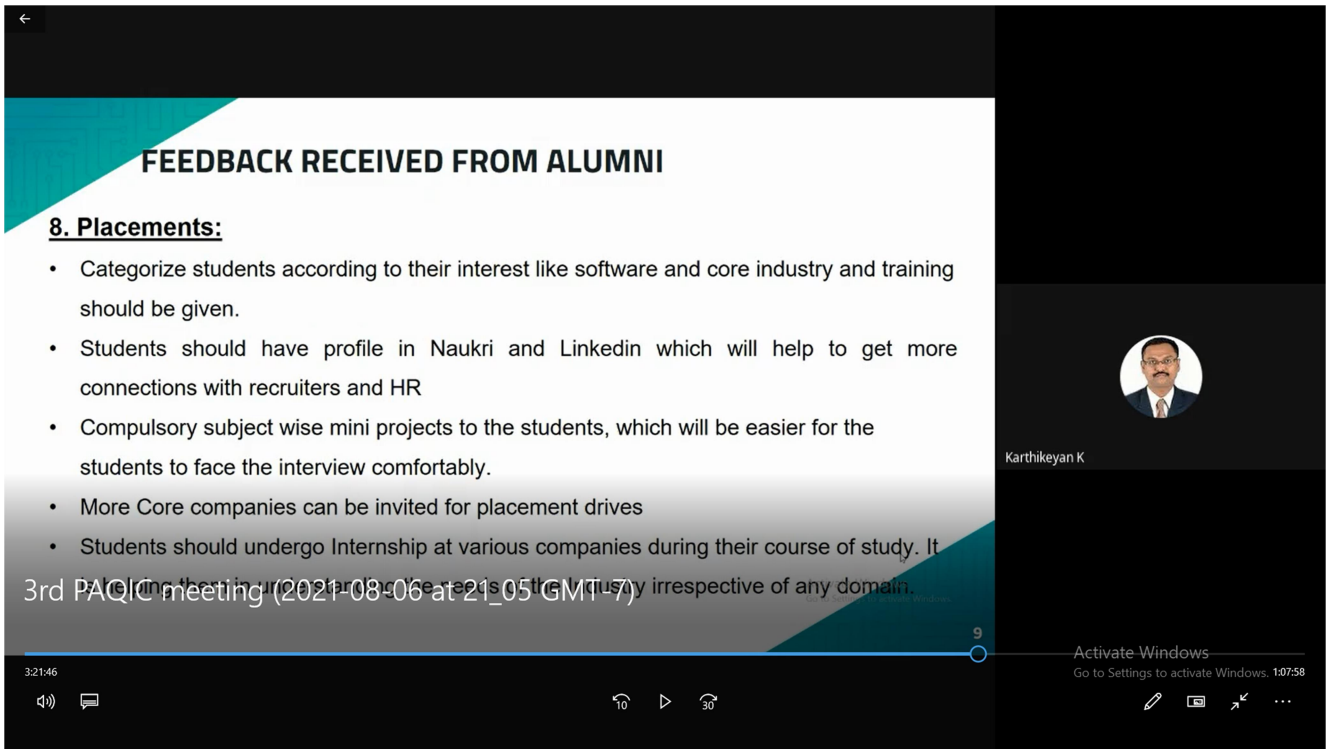
11. ALUMNI ASSOCIATION INTERACTIONS

Presenter: Dr. K. Karthikeyan, ASCP / EEE

- Presented the summary list of alumni interactions happened in the academic year 2020-21. There were totally 12 number of alumni interactions in various categories such as technical webinar sessions, industry lectures, quantitative aptitude sessions and conference session chairs.
- Presented the list of alumni meet planned and conducted during the academic year 2020-21. For first four passed out batches (2013-17, 2014-18, 2015-19 & 2016-20), the alumni meet had been conducted.
- The feedback provided by the alumni during those four alumni meet has been discussed in detail under various improvement areas namely additional courses, awareness programs for higher studies, career guidance, entrepreneurship and foreign languages, placement training, software training, aptitude training, and conducting webinar for thrust areas.
- The support provided by the alumni for various departmental activities are discussed and it is appreciated.
- The efforts taken by the alumni association at college level has been disseminated to the members.

Suggestions by PAQIC members:

- Enhance the frequency of Alumni meet and alumni interactions.
- Track the current status of the alumni periodically and maintain the proper database.
- Share the content discussed with the Alumni to all the current students and faculty members.



12. **CONTINUOUS IMPROVEMENT**
Presenter: Mr. A. S. Vigneshwar, AP/EEE

- Presented the academic audit process and actions taken thereof during the period of assessment: from 26.09.2020 to 17.07.2021 and presented external audit (Annual surveillance dated: 29.01.2021) comments for scope for improvements.
- Discussed the actions taken by the department to address the comments given by the external audit members and its implementation & effectiveness. (Table 12.1)
- Presented ISO form refinement (TG 01 – Annual performance appraisal form) and its effectiveness towards teaching – learning process such as improvements in innovation & Teaching (Theory & Practical), improvements in teaching performance, more tangible outcomes in project work, Curricular gap/ Content beyond the syllabus plan, improvements in activities that contribute in student success, mentoring effectiveness, R&D activities improvement and more extract from Industry interaction & MoU's
- Presented placement index improvement in 2019-20 (78%) & 2020-21 (98%) and compared with last three years. (Annexure 12.2)

Suggestions by PAQIC members:

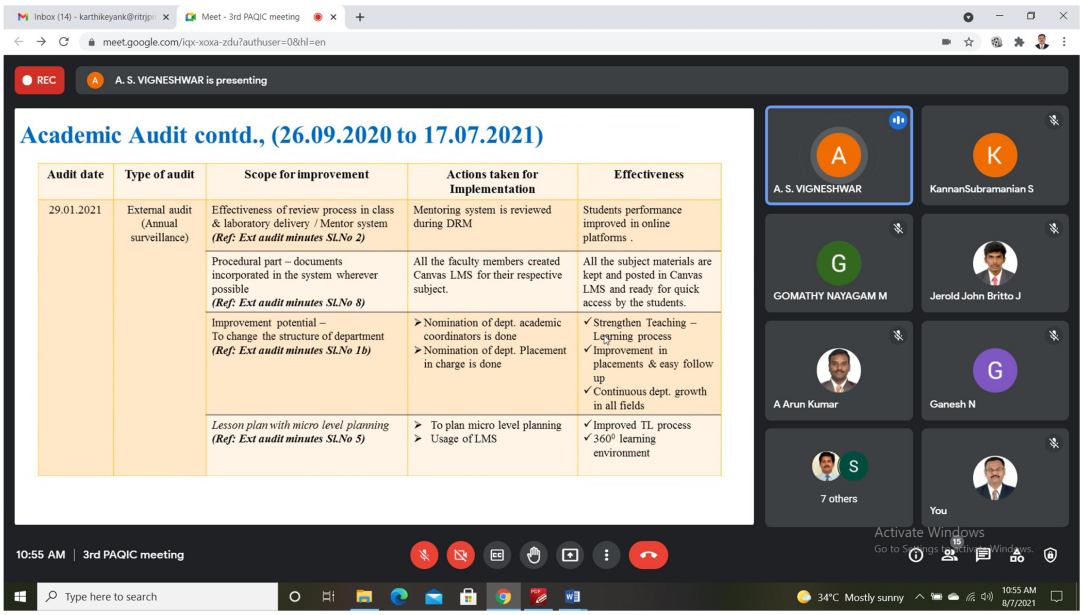
- ✓ The number of students pursuing the higher studies and entrepreneurship has to be listed in the presentation slides.
- ✓ Any outcome from the project can be included in the presentation slides.
- ✓ Record the shortfalls (from various stakeholders) in previous year and analyze the reasons
- ✓ Report PO's/PSO's attainment of value added courses, Extracurricular and co-curricular activities
- ✓ Identify low PO's/PSO's attainment courses and plan for corrective actions
- ✓ Analyze the high attainment courses and record good practices followed by the respective faculty members for further improvements.

Table 12.1 Audit comments and its effectiveness

Audit date	Type of audit	Scope for improvement	Actions taken for Implementation	Effectiveness
29.01.2021	External audit (Annual surveillance)	Effectiveness of review process in class & laboratory delivery / Mentor system (Ref: Ext audit minutes Sl.No 2)	Mentoring system is reviewed during DRM	Students performance improved in online platforms.
		Procedural part – documents incorporated in the system wherever possible (Ref: Ext audit minutes Sl.No 8)	All the faculty members created Canvas LMS for their respective subject.	All the subject materials are kept and posted in Canvas LMS and ready for quick access by the students.
		Improvement potential – To change the structure of department (Ref: Ext audit minutes Sl.No 1b)	➢ Nomination of dept. academic coordinators is done ➢ Nomination of dept. Placement in charge is done	✓ Strengthen Teaching – Learning process ✓ Improvement in placements & easy follow up ✓ Continuous dept. growth in all fields
		Lesson plan with micro level planning (Ref: Ext audit minutes Sl.No 5)	➢ To plan micro level planning ➢ Usage of LMS	✓ Improved TL process ✓ 360^0 learning environment

Table 12.2 Placement Index

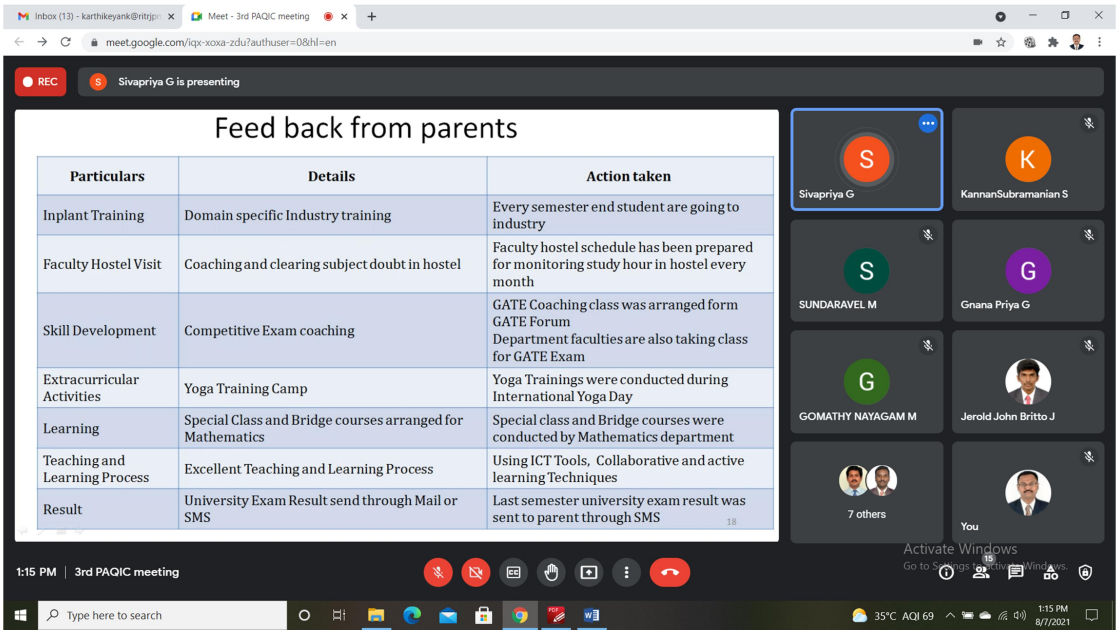
Items	2013-17	2014-18	2015-19	2016-20	2017-21
Total No. of Final year Students	69	71	66	56	55
Number of students gave willingness for Placement	-	68	63	49	47
No. of Students Placed	33	53	45	38	46
Higher Studies	4	2	4	3	Yet to be finalized
Entrepreneur	3	4	3	1	Yet to be finalized



13. Stakeholders Feedback and analysis: Students/Parents/Alumni/Recruiters

Presenter: Mrs. G. Sivapriya, AP/EEE

- The modes of feedback collection from the various stakeholders have been discussed.
- The feedback given by the students on teaching learning process has been analyzed and the actions taken by the department faculty members to improve the quality of the content delivery have been discussed.
- The alumni feedback has been analyzed and the improvement points given by the Alumni and the remedial actions have been shared in the presentation slides.
- The parent's feedback and the expectations from the department have been shared and the actions taken thereof also discussed.
- The recruiter's feedback for our department alumni has been presented along with the initiatives taken for improving the placement is discussed.



Suggestions from the members

- The curriculum gap can be identified with the help of the stakeholder's feedback.
- The professional society feedback on the curriculum can be obtained for identifying the gap.

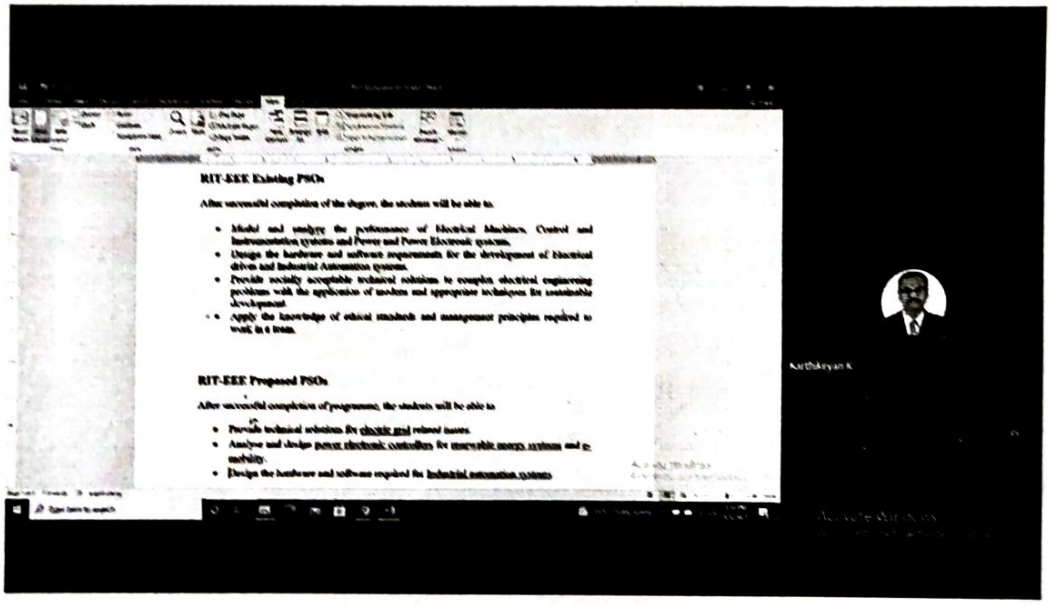
14. Discussion about the changes in PSO

Presenter: K. Karthikeyan, ASCP/EEE

- The NBA peer visit team members have suggested revising the PSOs, since it is not specific to the programme and it is a combination of various POs.
- The various stakeholders' feedback on PSOs is invited by faculty members. As per suggestions received from the college NBA coordinator / our Vice-Principal Sir, the inputs from the Alumni and recruiters are mainly considered for the revision of PSOs.
- The revision of PSOs has been done established on the main thrust areas of the electrical engineering and the expertise available with the department (Power System / Power Electronics / Industrial automation).
- The revised PSOs are put forth to the committee members for their suggestions and the suggestions have been recorded for the changes / modifications.

Suggestions from the members:

- The revised PSOs are too specific with the affiliated curriculum it will be very difficult to achieve the PSO attainment.
- The electronics parts of the curriculum must be taken care in the PSO revision.
- The suggested PSOs are narrow down to particular topics and hence it may be difficult for CO-PSO mapping.
- The domain specific PSOs can be formulated for the better attainment.



Prepared by	NBA Coordinator/EEE	Reviewed by	Approved by
25/01/22	25/01/22	25/01/2022	25/1/22
(K. Karthikeyan)	(K. Karthikeyan)	(HoD/EEE)	Principal