



# RAMCO INSTITUTE OF TECHNOLOGY

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

## Department of Electrical and Electronics Engineering

Academic Year 2024 – 25

Ref.: RIT/EEE/PA&QIC/09

Date: 18.07.2024

### Circular

The 9<sup>th</sup> Program Assessment & Quality Improvement Committee Meeting to review the progress of 2023-24 (Even Semester) is planned on 26.07.2024 (Friday) from 2.00 PM to 4.00 PM at EEE Seminar Hall. All PA&QIC Members and other 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	Review of Previous meeting (8 <sup>th</sup> PA&QIC)	Dr. K. Karthikeyan	2.00 – 2.05 PM
2a	Teaching and Learning: (i) Curricular Gap and content beyond syllabus, (ii) New Initiatives and Innovative methods practiced and its implications, (iii) Action taken for slow learners and bright students, (iv) Question paper quality improvement (v) Outcome of Academic audit	Mrs. S. Jeyanthi	2.05 – 2.20 PM
2b	Institute – Industry Interactions and its impact - Internship & Industrial Training	Mr. E. Thangam & Dr. K. Karthikeyan	2.20 – 2.30 PM
3	(i) Attainment of COs, POs, PSOs with program effectiveness (2023-2024), (ii) Proposed methodologies to set target attainment for CO (iii) Initiatives for adding Co-Curricular and Extra-Curricular activities towards CO attainment	Mr. E. Thangam & Mrs. G. Sivapriya	2.30 – 2.40 PM
4a	Student Participation: Professional Societies and Technical Association	Mrs. S. Jeyanthi & Dr. P. Prem	2.40 – 2.50 PM
4b	Student Participation: Inter-Institute events and online course	Dr. B. Deepa Lakshmi	2.50 – 3.00 PM
5	Faculty Performance, Participations, online course and Research and Development activities	Dr. D. Karthik Prabhu	3.00 – 3.10 PM
6	New facilities created & Laboratory utilization	Mr. S. Meenakshi Sundaravel	3.10 – 3.15 PM
7	Continuous Improvements	Mr. A.S. Vigneshwar	3.15 – 3.30 PM
8a	Training and Placement Progress	Mr. A. S. Vigneshwar	
8b	EDC & Carrier Guidance Cell activities	Mrs. S. Narthana & Mrs. G. Sivapriya	3.30 - 3.45 PM
8c	Feedback Analysis (Student / Parent / Alumni / Recruiters / Employee)		
9	Budget allocation and Utilization	Dr. A. Arun Kumar	3.45 – 3.50 PM
10	Any other matters		3.50 – 4.00 PM

  
Department NBA Coordinator

  
HoD/EEE

  
Vice Principal

  
Principal

Copy to:

- 1) All PA&QIC Members and faculty members through email
- 2) File



# RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University

Accredited by NAAC & An ISO 9001: 2015 Certified Institution

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

## Department of Electrical and Electronics Engineering

Academic Year 2023 – 2024

### Minutes of Meeting – 9<sup>th</sup> Program Assessment & Quality Improvement Committee (PA&QIC)

**Date of Meeting** : 26.07.2024 (Friday)  
**Time of Meeting** : 02:00 PM to 04:30 PM  
**Reference** : RIT/EEE/PA&QIC/09  
**Venue** : EEE Seminar Hall

#### Members Present:

Sl. No.	Name of the Faculty Member	Designation	PAQIC
1.	Dr. S. Kannan	Professor / EEE	Convener
2.	Dr. K. Karthikeyan	Professor / EEE	Member
3.	Dr. D. Karthik Prabhu	ASCP / EEE	Member
4.	Mrs. C. Subha	AP (SG) / Civil	Member
5.	Dr. M. Gomathynayagam	Associate Professor & Head / CSBS	Member
6.	Dr. T. Vigneswari	AP (SG) / Physics	Member
7.	Dr. J. Jerold John Britto	AP (SG) / Mechanical	Member
8.	Dr. B. Deepa Lakshmi	ASCP / EEE	Representative
9.	Dr. P. Prem	ASCP / EEE	Representative
10.	Dr. A. Arun Kumar	AP (SG) / EEE	Representative
11.	Mr. E. Thangam	AP (SG) / EEE	Representative
12.	Mr. S. Meenakshi Sundaravel	AP (SG) / EEE	Representative
13.	Mr. A. S. Vigneshwar	AP (SG) / EEE	Representative
14.	Mrs. S. Jeyanthi	AP (SG) / EEE	Representative
15.	Mrs. G. Sivapriya	AP / EEE	Representative
16.	Mrs. S. Narthana	AP / EEE	Representative

### The agenda of the meeting

Sl. No.	Topics to present	Faculty In-charge	Time
1	Review of Previous meeting (8 <sup>th</sup> PA&QIC)	Dr. K. Karthikeyan	2.00 – 2.05 PM
2a	Teaching and Learning: (i) Curricular Gap and content beyond syllabus, (ii) New Initiatives and Innovative methods practiced and its implications, (iii) Action taken for slow learners and bright students, (iv) Question paper quality improvement (v) Outcome of Academic audit	Mrs. S. Jeyanthi	2.05 – 2.20 PM
2b	Institute – Industry Interactions and its impact - Internship & In-Plant Training	Mr. E. Thangam & Dr. K. Karthikeyan	2.20 – 2.30 PM
3	(i) Attainment of COs, POs, PSOs with program effectiveness (2023-2024), (ii) Proposed methodologies to set target attainment for CO (iii) Initiatives for adding Co-Curricular and Extra-Curricular activities towards CO attainment	Mr. E. Thangam & Mrs. G. Sivapriya	2.30 – 2.40 PM
4a	Student Participation: Professional Societies and Technical Association	Mrs. S. Jeyanthi & Dr. P. Prem	2.40 – 2.50 PM
4b	Student Participation: Inter-Institute events and online course	Dr. B. Deepa Lakshmi	2.50 – 3.00 PM
5	Faculty Performance, Participations, online course and Research and Development activities	Dr. D. Karthik Prabhu	3.00 – 3.10 PM
6	New facilities created & Laboratory utilization	Mr. S. Meenakshi Sundaravel	3.10 – 3.15 PM
7	Continuous Improvements	Mr. A.S. Vigneshwar	3.15 – 3.30 PM
8a	Training and Placement Progress	Mr. A. S. Vigneshwar	
8b	EDC & Carrier Guidance Cell activities	Mrs. S. Narthana & Mrs. G. Sivapriya	3.30 - 3.45 PM
8c	Feedback Analysis (Student / Parent / Alumni / Recruiters / Employee)		
9	Budget allocation and Utilization	Dr. A. Arun Kumar	3.45 – 3.50 PM
10	Any other matters		3.50 – 4.00 PM

## 1A. REVIEW OF PREVIOUS MEETING (8<sup>th</sup> PA&QIC)

Presenter: Dr. K. Karthikeyan, Professor / EEE



- The member suggestions from the 8<sup>th</sup> PAQIC meeting was discussed in the topics of teaching learning process, industry – institute interactions, PO and PSO attainment calculation, Student participation, Faculty contributions to the department, new facilities created in the department, continuous improvement, training and placement, EDC and Carrier guidance cell activities, Student feedback and analysis, and Budget allocation and utilization.

## 2A. TEACHING AND LEARNING PROCESS

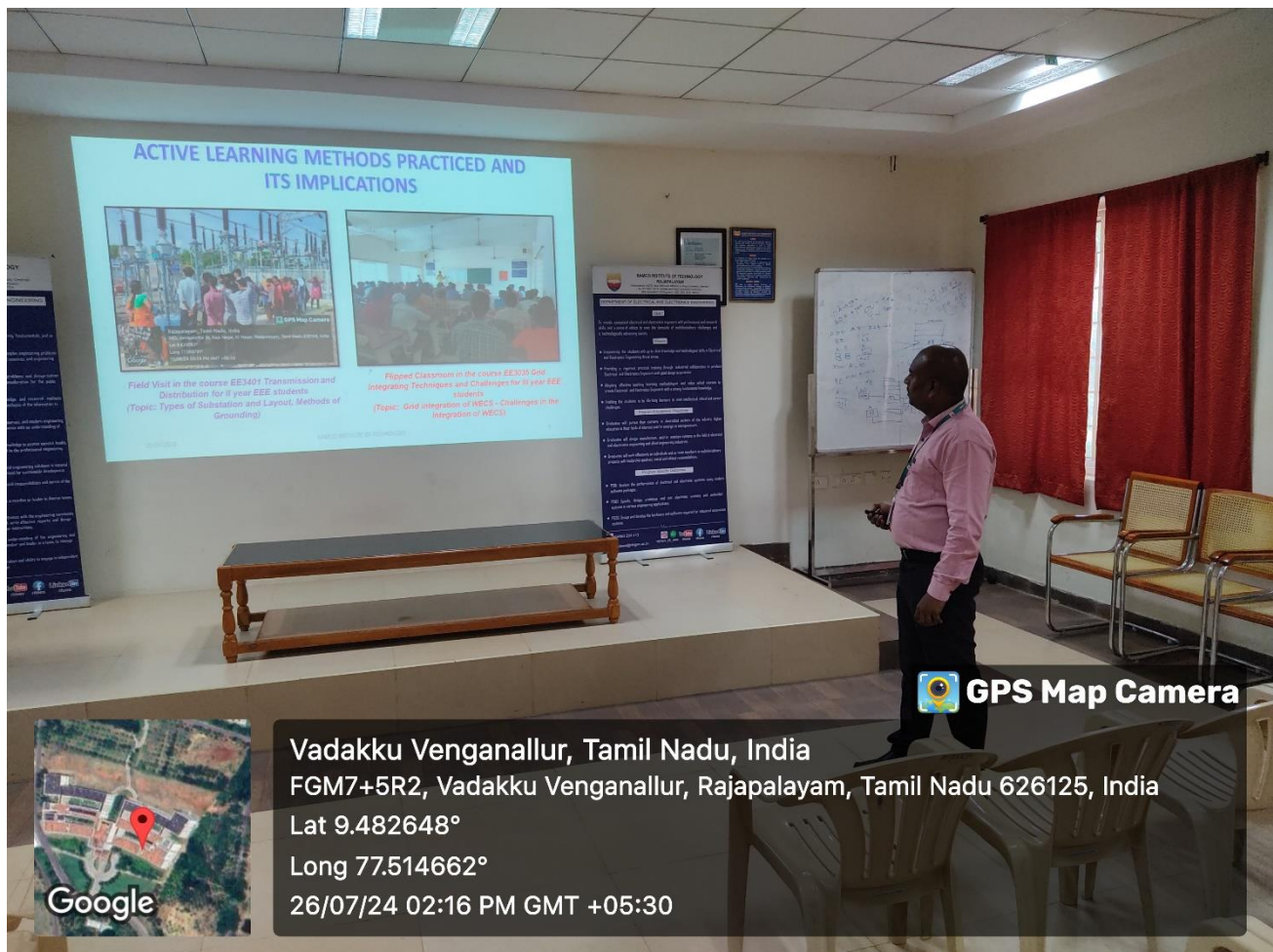
Presenter: Dr. A. Arun Kumar, AP(SG)/EEE on behalf of Mrs. S. Jeyanthi, AP (SG) / EEE

- The process of identification of curricular gaps was reviewed. Members have been informed to communicate the curricular gap to the Centre for Academic Courses, Anna University as soon as possible.
- The delivery of content beyond the syllabus was verified. Members advised to conduct an assessment from next semester onwards to find the effectiveness.

- Innovative practices in the Teaching and Learning Process have been reviewed.
- The findings of the academic audit have been presented.
- Rigorous scrutiny has been conducted on all Internal Assessment Test question papers, and evidence of improvements in question paper quality has been presented.

### Member suggestions

- The curriculum gap should be identified and communicated to the Anna University regularly.
- The Geo-tagged photos should be used in the presentation slides.
- The overall observation should be implemented.
- The justification for content beyond syllabus mapped with POs should be recorded.
- The industrial person whom we contacted for identifying the curriculum gap can be used for delivering the guest lecture.
- The domain classifications can be discussed with academic / industrial experts and their suggestions can be implemented.



- The method or procedure should be devised to evaluate the quality of the external question paper for the internal assessment tests.
- GATE / NPTEL questions can be included in the internal assessment tests.

## 2B. INSTITUTE – INDUSTRY INTERACTIONS AND ITS IMPACT - INTERNSHIP & IN-PLANT TRAINING

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

### Student Industrial Visit

S. No.	Class	Name of the Company	Date of Visit	Accompanying Faculty members	No. of Students attended
1.	II Semester B.E. EEE	Radio Astronomy Centre Tata Institute of Fundamental Research Post Box 8, Udhagamandalam (Ooty) - 643 001, Tamil Nadu, India	06.04.24	Dr. D. Karthik Prabhu Mrs. P. Palanikani	52
2.	IV Semester B.E. EEE	Kerala Electrical & Allied Engineering CO. Ltd. (A Government of Kerala Undertaking) Mamala P.O., Kochi -682305	26.03.24	Mr. E. Thangam Ms. M. Nageswari	57
3.	IV Semester B.E. EEE	110 kV Substation Ramco Group Textile Division Rajapalayam	13.06.24	Dr. K. Karthikeyan Mrs. G. Sivapriya	63
4.	VI Semester B.E. EEE	Ashok Leyland Limited, Phase – II, Hosur, Tamilnadu	02.03.24	Mr. S. Meenakshi Sundaravel Ms. S. Gandhimathi	56

### Industry Expert Interactions:

S.No.	Name of the Industry Expert	Nature of Interactions	Date	Beneficiaries
1.	Mr. Mutharasu Beemarajan, Head of Base Development Platform Solutions - India, Vitesco Technologies, Electronic City, Banglore, Karnataka – 560100	Project Review - I	15.03.2024	VIII Semester EEE students
2.	Mr.K.Subramanian, Senior Engineer, Electrical, Rajapalayam Mills	Project Review - II	05.04.2024	VIII Semester EEE students

Limited, The Ramco Group Textile Division, Rajapalayam 626108			
--	--	--	--

### Industry Projects Details:

6 batch of students are undergoing their final year projects in the industries, the details are given below

S.No.	Name of the Company	No. of Projects
1.	Hashan Medicare, Rajapalayam.	3 Batches (9 students)
2.	Madurai SM Technopark Pvt. Ltd, Madurai.	4 Batches (12 students)
3.	Sri Krishna Packaging Industries, Pallapatti, Nilakottai Taluk, Dindigul District	1 batch (3 students)
4.	Rajbio Electronics and Intelligent (P) Ltd. Krishnankoil.	2 batches (6 students)
5.	Dare Tech Talent Services, Chennai 600124.	2 batches (6 students)
6.	The Silicon Harevest, Madurai-625 001.	1 batch (3 students)
7.	Hashan Medicare, Rajapalayam.	3 Batches (9 students)
8.	Radical Engineering, Coimbatore -21.	1 batch (3 students)
9.	Tech Power Solutions, Rajapalayam.	1 batch (3 students)

### Member suggestions

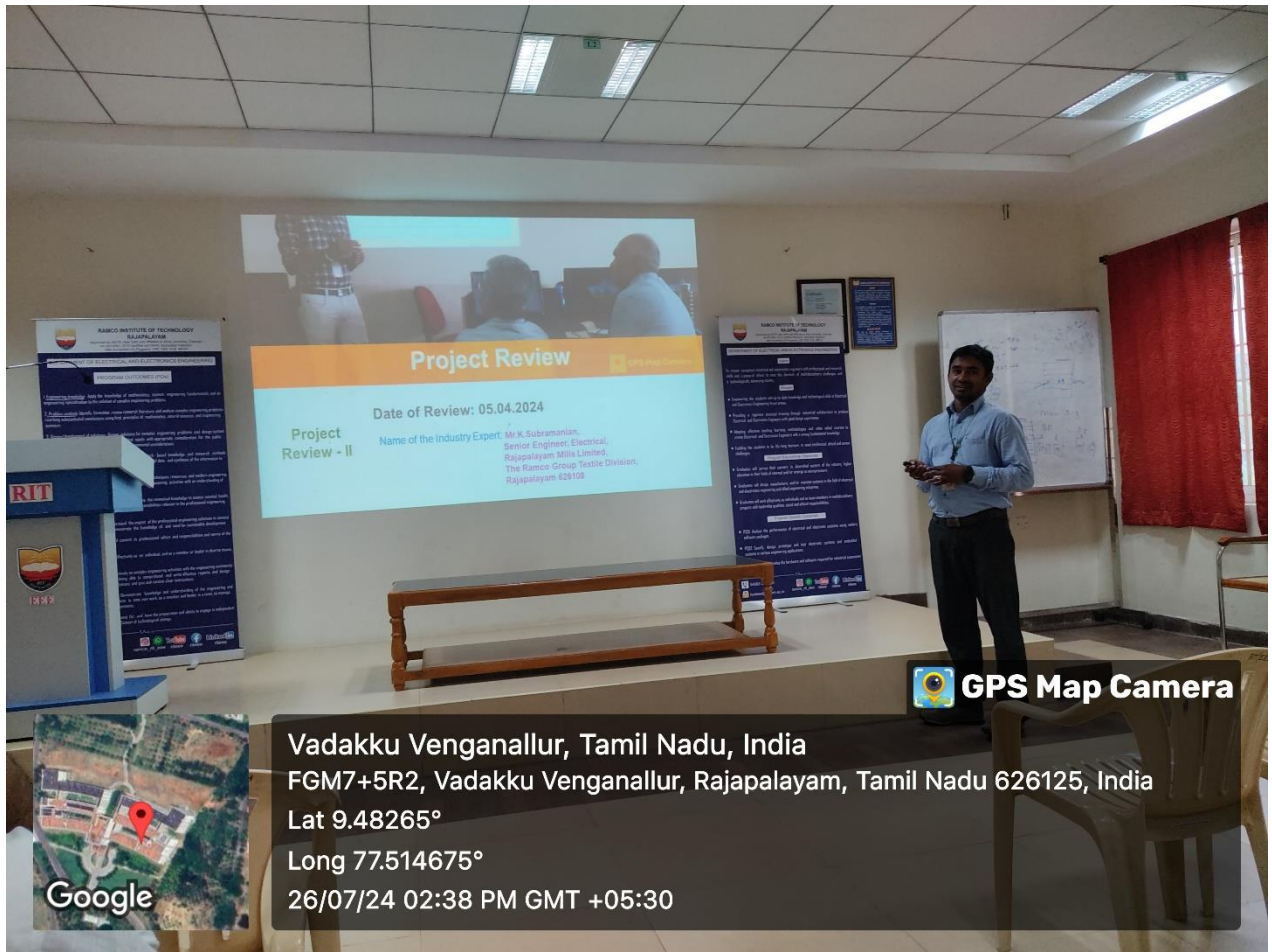
- The members have appreciated the faculty IV and its report.
- The Geo-tagged photos only can be included in the presentation slides.
- The period wise industrial activities only can be presented.
- The students should try for paid internship at least in the final year.
- The industrial visit is compulsory for the all students.

### 3. ATTAINMENT OF COs, POs, PSOs WITH PROGRAM EFFECTIVENESS (2023-24)

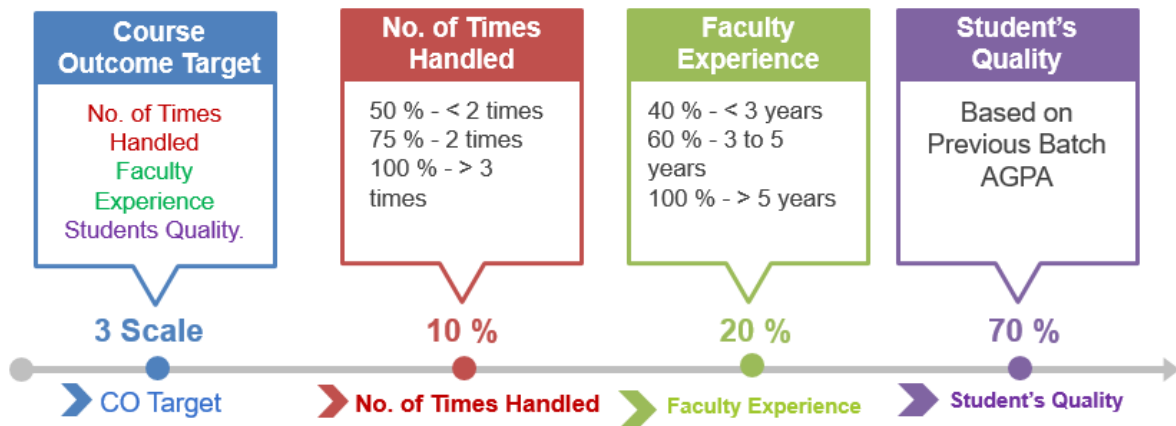
Presenter: Mr. E. Thangam, AP (SG) / EEE

#### a. Assessment methods practiced in the last academic year.

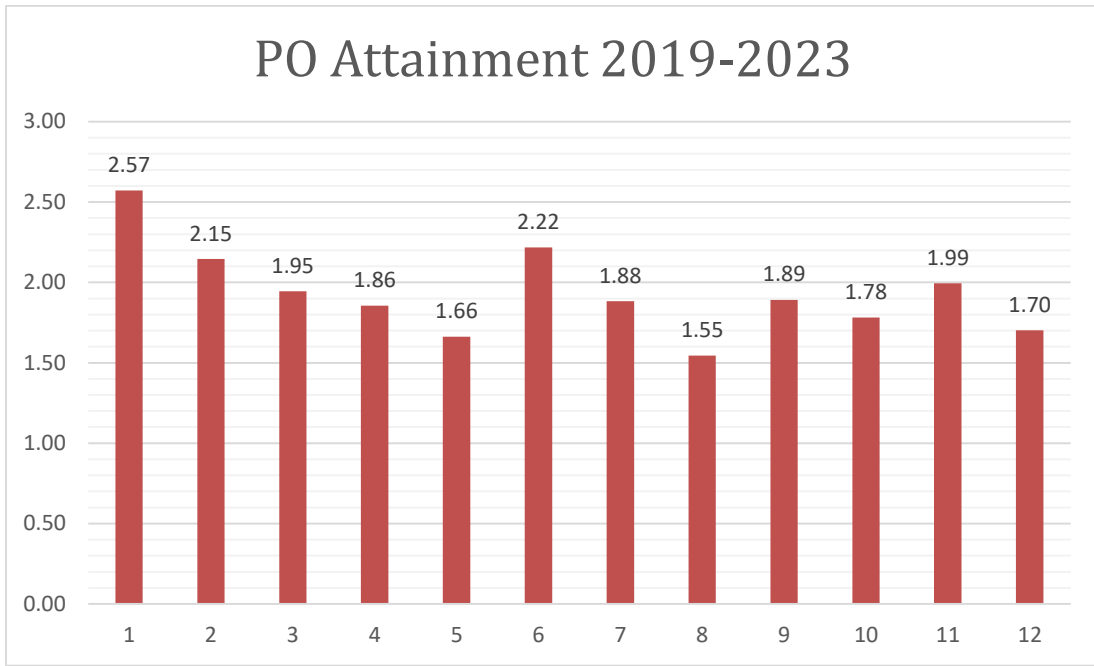
Direct	Indirect
Internal Assessment Test 1,2,3 Assignment, Quiz, Course Outcome End Survey	Alumni Exit survey, Program Exit survey



**b. Proposed Course Outcome Target Setting Procedure for CO Attainment – R 2021**

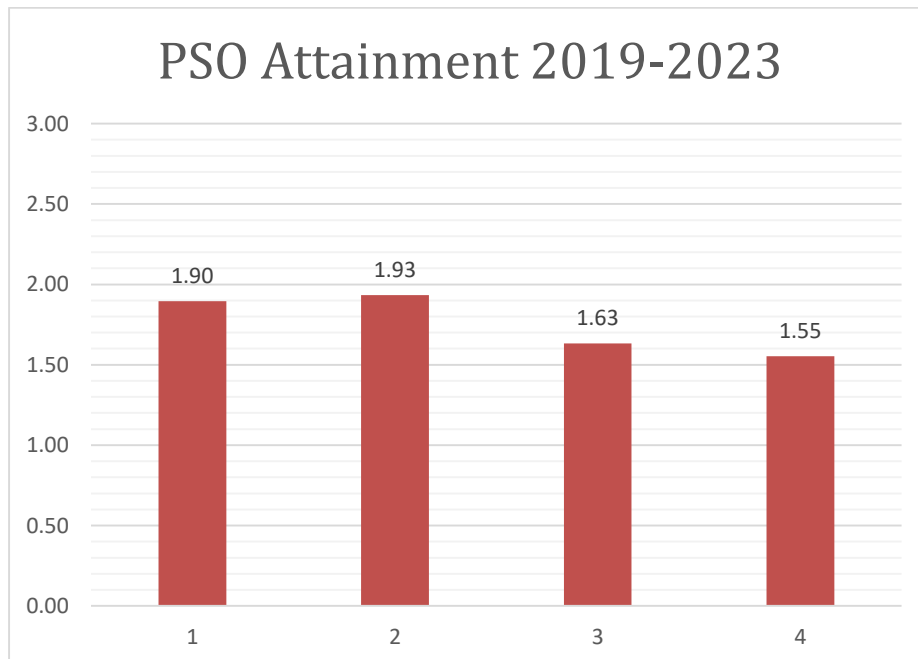






**e. Details of PSO Attainment for the Batch 2019 – 2023**

<b>PSO</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>	<b>PSO4</b>
PSO Mapping	<b>1.3</b>	<b>1.4</b>	<b>1.3</b>	<b>1.2</b>
Target	<b>1.9</b>	<b>1.9</b>	<b>1.9</b>	<b>1.9</b>
PSO Attainment	<b>1.90</b>	<b>1.93</b>	<b>1.63</b>	<b>1.55</b>



#### **f. Actions to be taken to get Maximum Score in Criterion 3**

- CO-PO Mapping, CO-PSO Mapping, Target Calculation Procedure, Course Outcome Calculation Procedure, and PO/PSO Outcome Calculation Procedure should be familiar to all faculty members.
- Every faculty member must be able to give a proper, unique justification about the entire process we are following in attainment calculation.
- The course file should be prepared with utmost care, and all evidence should be provided on the spot.
- All faculty members, please try to take steps towards the attainment of POs 6 to 12, because these outcomes cannot be attained in the classroom.
- Faculty cooperation in the aspect of on-time submission of the completed course file is highly essential.

#### **Member suggestions**

- Target procedure needs some clarity to justify the inference with the NBA committee expert.
- The attainment calculation can be compared with previous batches.
- The analysis can be presented in the DRM meeting regularly.

#### **4A. STUDENT PARTICIPATION: PROFESSIONAL SOCIETIES AND TECHNICAL ASSOCIATION**

Presenter: Mr. S. Meenakshi Sundaravel AP(SG)/EEE on behalf of Dr. P. Prem, ASCP / EEE

- The number of events conducted by the professional society IE(I) and Technical Association RIT-Electra during the assessment period has been presented.
- The number of participants, resource person, and the participant feedback analysis has been presented.
- Presented the student participation during the even semester of Academic Year 2024-2025.
- 18 events conducted against the planned 20 events

#### **Member suggestions**

- Members suggested to apply for the best chapter award regularly
- The student membership in IE (SMIE) can be improved.
- The student should be involved in the events. They should take the initiative towards new kind of events.



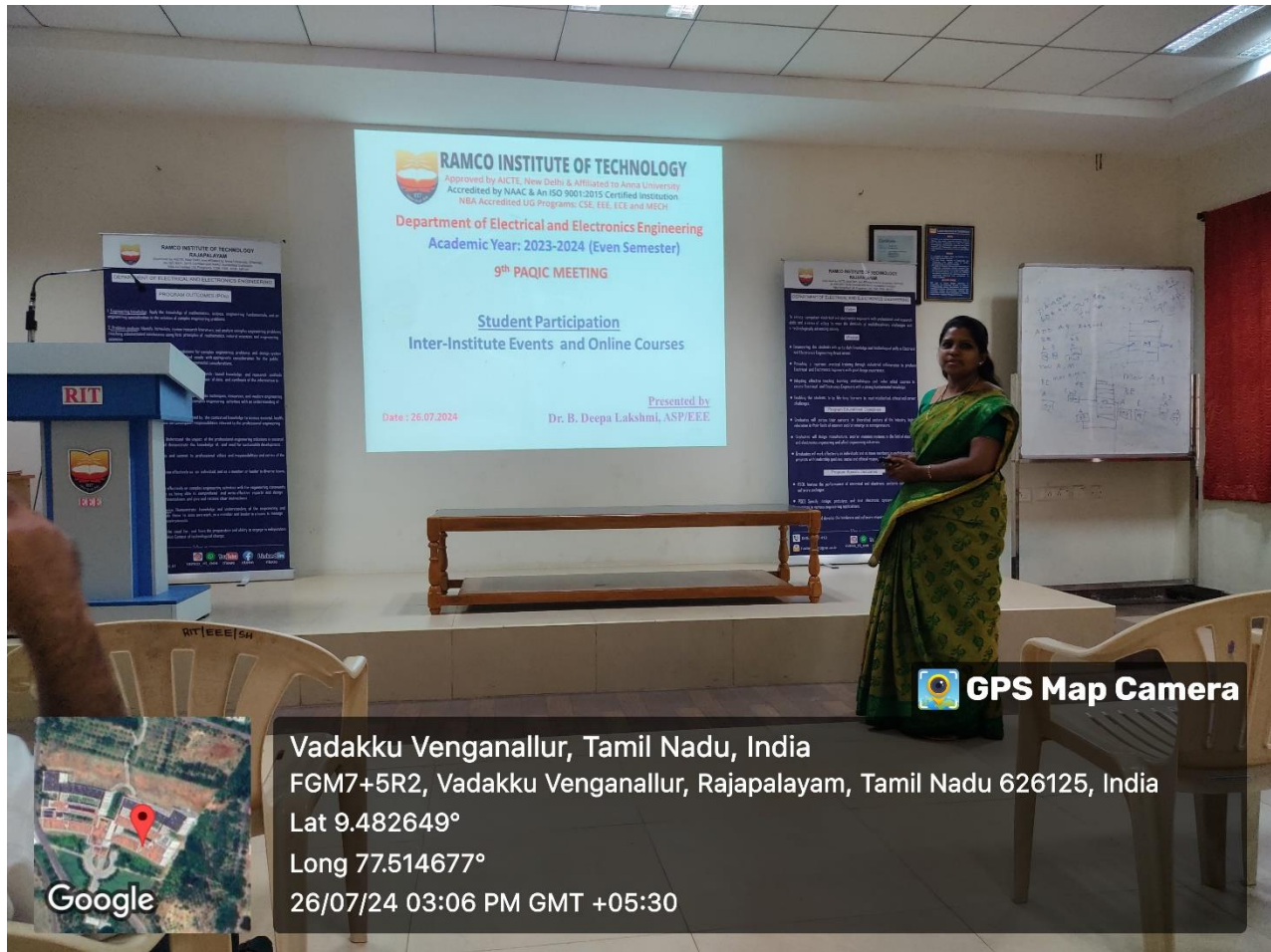
#### 4B. STUDENT PARTICIPATION: INTER-INSTITUTE EVENTS AND ONLINE COURSE

Presenter: Dr. B. Deepa Lakshmi, ASCP / EEE

- The student participation in Inter-Institute events and online courses along with sample certificates has been presented.
- The companies visited by the students for their internship and sample certificates has also been presented.
- The detailed student participation in intercollege events is also presented.

#### Member suggestions

- The total number of students count can be included in the slides.
- The student should be encouraged to go other state participation.
- The significant number of online courses should be completed by the students.
- The technical magazine should be completed by the students regularly.
- The online courses with 30 hours only will be considered in accreditation. Hence it can be separated from total list and presented separately.



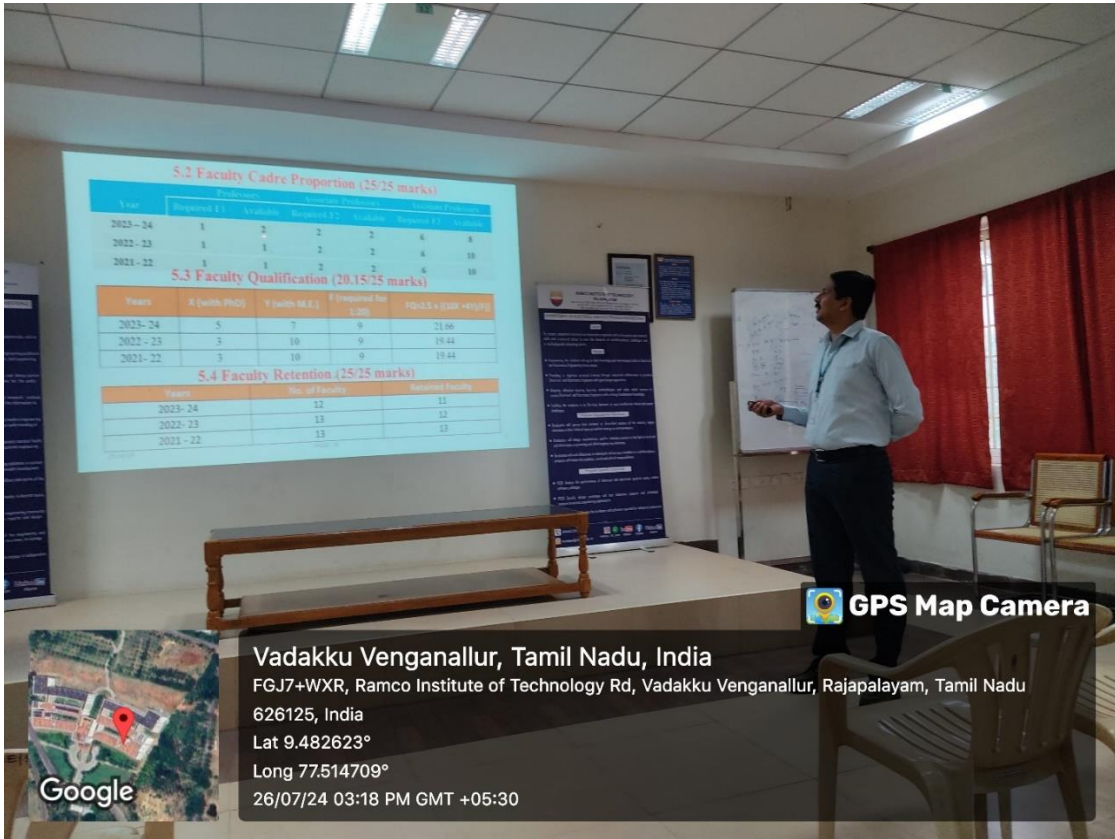
## 5. FACULTY CONTRIBUTIONS AND R & D ACTIVITIES

Presenter: Dr. D. Karthik Prabhu, ASCP / EEE

- Presented the Faculty contribution during the period 2024-24 Even semester including student faculty ratio, Faculty qualification, publications, funded projects, consultancy, patents applied and granted, Adjunct Faculty class delivered details and faculty online course details.

### Member suggestions

- The faculty members upload their content developed in Slide share and YouTube. Comments should be recorded and maintain in separate file.
- Increase the participation in ATAL FDP, Short term training programme and Workshop.
- Apply for more sponsored project proposal, workshop, seminar and FDPs.
- The consultancy work by the department faculty should improve.



## 6. NEW FACILITIES CREATED & LABORATORY UTILIZATION

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



- New Facilities created were presented for the Academic year 2023-24 Even semester.
- Laboratory facilities were utilized for theory and practical classes through innovative practices.
- Utilization registers for all the laboratory facilities are maintained regularly.

### Member suggestions

- The utilization percentage of each lab, component and equipment can be included in the slides.
- The consumables purchase should be done regularly and it should be monitored regularly.

## 7. CONTINUOUS IMPROVEMENTS

Presenter: Mr. A. S. Vigneshwar, AP (SG) /EEE



- The number of students admitted in the last three academic years has consistently increased. Also the opening score is consistently maintained above 170 out of 200 in all the years.
- The opening score of lateral entry students is consistently maintained above 85 % in all the years.
- The placement percentage is maintained **more than 80% consistently**.

- The quality and **core industry hiring has consistently increased** in the last three academic years.
- The notable core companies visited and hired our students in campus are given below.
  - ✓ Tessolve Semiconductor (4.5 LPA)
  - ✓ Yaskawa (4 LPA)
  - ✓ Ramco Cements (3.25 LPA)
  - ✓ Pinnale Infotech (3.3 LPA)
  - ✓ Salcomp (3 LPA)
  - ✓ Igarasi Motors (2.5 LPA)
- The **average CTC** has continuously maintained **above 3 LPA** in the last three academic years.
- The **Highest CTC** is consistently maintained **above 4 LPA** in the last three academic years.
- The ISO internal audit is conducted on 15.07.2023 to 17.07.2023. The following findings and action taken are planned.

**Findings:**

1. Not able to identify the students who have not completed the In-Plant Training and internship details
2. Student Mini Projects (ACF 210) - Consolidation is missing in the file.

**Actions taken:**

1. Identified the not completed status of In-Plant Training and internship details and updated in file and in website also.

[https://www.ritrijpm.ac.in/departments/electrical-electronics\\_engg/electrical-electronics-engg-program-organized-iv-ipt-internship-.php](https://www.ritrijpm.ac.in/departments/electrical-electronics_engg/electrical-electronics-engg-program-organized-iv-ipt-internship-.php)

2. Student mini project details are consolidated and updated in file.

- The ISO internal audit is conducted on 27.11.2023 to 28.11.2023. The following findings and action taken are planned.

**Findings:**

1. All III year students undergone internship, IV year- 5students yet to go for internship
2. Activities conducted, consolidated list of activities not available
3. The number of innovative practices used can be improved.
4. The curriculum feedback may be collected from all the stakeholders.
5. The outside student participation needs to be improved.
6. The student's participation in Internship needs improvement.

**Actions taken:**

1. All the five students who are yet to for internship is completed and updated in website.

<https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-iv-ipt-internship-.php>

2. Consolidated list of activities conducted in professional societies and kept in file.
3. The number of innovative practices conducted is increased and updated in website.

<https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/eee-innovative-practices.php>

4. Curriculum feedback is collected from all stockholders.
5. Students outside participation is improved.

<https://www.ritrjpm.ac.in/departments/electrical-electronics-engg/electrical-electronics-engg-program-organized-student-participation.php>

6. Students participation in internship is improved.

### **Member Suggestions:**

- The bifurcation slide can be changed.
- The higher CTC is declined compared to last AY. It should be improved in the forthcoming years.
- The remedial action for the not attained courses should be prepared and presented in the slides.
- The content beyond syllabus should be prepared such that it should improve PO attainment.
- The statement in the slides should be specific not generic.

## **8A. TRAINING AND PLACEMENT PROGRESS**

Presenter: Mr. A. S. Vigneshwar, AP (SG) /EEE

- The Overall placement percentage with respect to opted for placement students is 98% and with respect to total strength is 75%.
- The number of company visited is 35 out of which 25 companies are core, 8 are IT, 2 are others.
- The major recruiters for this year is Tessolve, Ramco Cements, Pinnacle, Igarashi motors, ZF, Sonacomstar, Sandatta and Sri Sai power equipment private limited.
- The highest CTC is 4.5 LPA, average CTC is 3 LPA, lowest CTC is 2.5 LPA.
- The following trainings are carried out
  - ✓ Company specific training for IV year students from 19.02.2024 to 24.02.2024 by Lee Success & Ebox.
  - ✓ General training for I and II year students from 12.02.2024 to 21.02.2024 by Top Fresher, Chennai.

### **Member suggestions**

- The number of companies visited the campus is 35. The count is increasing likewise the quality of the placement should also increase.

## 8B. EDC & CARRIER GUIDANCE CELL ACTIVITIES &

## 8C. STUDENT FEEDBACKS AND ANALYSIS

Presenter: Mrs. S. Narthana, AP /EEE

- Various events conducted by the EDC, IIC and CG cell and number of EEE students benefited from those events for the academic year 2023-2024 (Even semester) have been presented.
- The collection of student's feedback for the individual subject through an online feedback system has been presented every semester. Class committee meetings and Course committee meetings have been made along with the respective actions.
- The collection of recruiter feedback through online feedback system has been presented.
- The specific training given by the companies have been utilized by the students effectively.



### Member suggestions

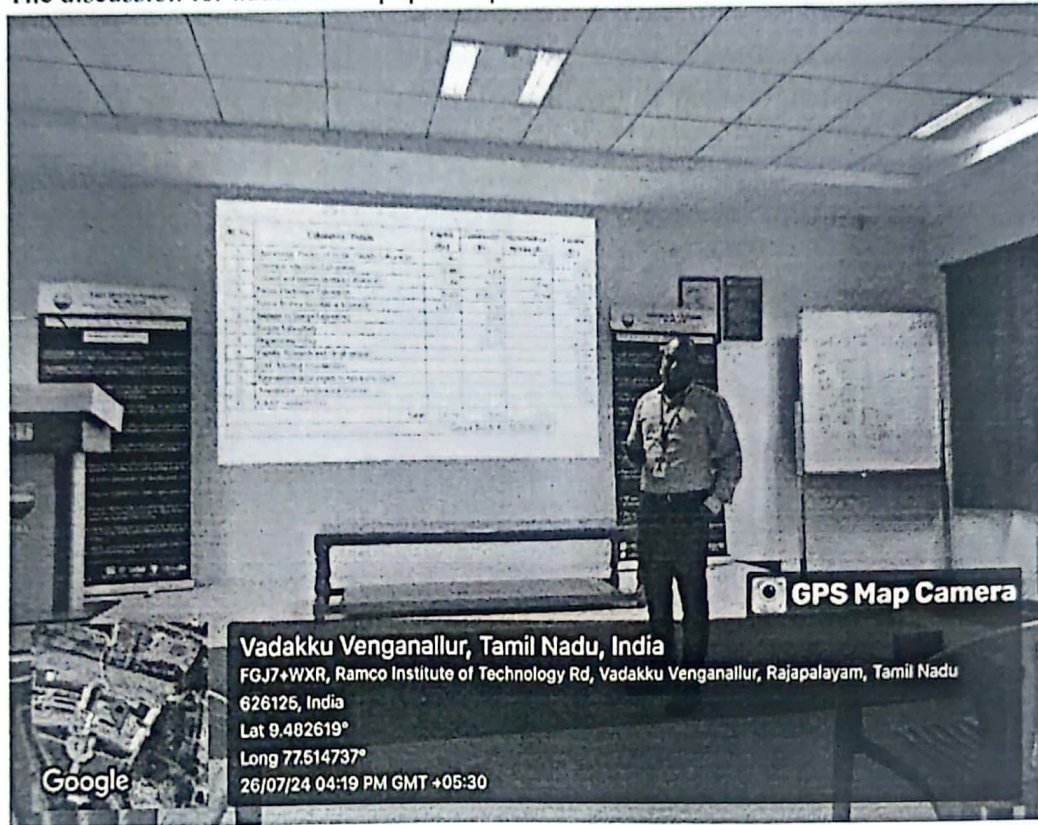
- The EEE student strength in the college level events should be presented in the slides.
- The Alumni meet should be conducted and recruiter feedback analysis should be done for a whole class and be presented in the slides.

- Members suggested that the faculty should be trained to act as a carrier guidance expert, so that the students can get advice from them.

## 9. BUDGET ALLOCATION AND UTILIZATION (2022-23)

Presenter: Dr. A. Arun Kumar, AP (SG) /EEE

- The budget proposal which was submitted for the academic year 2023-24 has been presented.
- The department expenditure details for the calendar year 2023-24 was presented. The laboratory wise expenditure details for recurring and non-recurring items have been presented.
- The discussion for additional equipment purchased has been made.



### Member suggestions:

- The adjunct faculty salary has been included in the department office expenses. It should be properly added to the corresponding budget head.
- The expenses spend on the R&D and Value added courses (VAC) should be increased.
- The requirements for the integrated course can be initiated. The new quotation of the MATLAB purchase can be initiated.

*G. Karthikeyan*  
14/12/24  
Prepared by

Dr. K. Karthikeyan

PAQIC Coordinator / EEE

*S. Kannan*  
16/12/24  
Reviewed by

Dr. S. Kannan

HoD/EEE

*[Signature]*  
Approved by  
Principal 16/12/24