K.RAMAKRISHNAN COLLEGE OF ENGINEERING

(An Autonomous Institution)

Permanently Affiliated to Anna University, Chennai, Approved by AICTE, New Delhi,
ISO 9001-2015, 14001:2015 Certified Institution, Accredited by NAAC with A Grade,
Accredited by NBA
Samayapuram, Tiruchirappalli – 621 112, Tamilnadu, India.

NINTH ACADEMIC COUNCIL - MINUTES

DATE: 30.05.2025   **TIME: 11.00 A.M.**

VENUE: TEACHING LEARNING CENTRE HALL

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ISO 9001-2015, 14001:2015 Certified Institution, Accredited by NAAC with A Grade,
Accredited by NBA and MHRD NIRF ranked Institution,
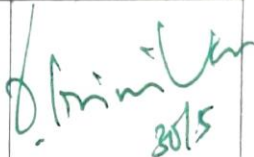*Samayapuram, Tiruchirappalli – 621 112, Tamilnadu, India.*

MINUTES OF THE 9th ACADEMIC COUNCIL MEETING
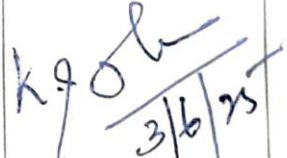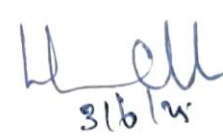
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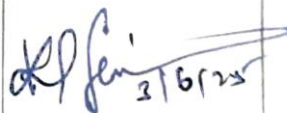
The ninth meeting of the Academic Council was held on 30th May 2025 at 11.00a.m. in Teaching Learning Centre Hall at K. Ramakrishnan College of Engineering, Tiruchirappalli under the chairmanship of Dr. D. Srinivasan, Principal.

Members Present:

S. NO.	NAME & DESIGNATION	CATEGORY/ POSITION	SIGNATURE
1.	Dr. D. Srinivasan Principal, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Chairman - Principal	
2.	Dr. S. Vengadesan Professor, Department of Applied Mechanics, Indian Institute of Technology Madras, Chennai – 600 036.	Member Academician – Nominated by Governing Body	
3	Dr. S. Pugazhenthi Professor & Dean, School of Mechanical Engineering, SASTRA University, Thanjavur	Member Academician – Nominated by Governing Body	
4.	Dr. AnbalaganThangavel ES – Active Safety (MS/ES11) Bosch Global Software Technologies Private Limited, Coimatore, Tamilnadu – 641 035.	Member Industry Expert – Nominated by Governing Body	
5.	Dr.S.Jayabal Principal, Government College of Engineering, Thanjavur – 613402.	Member – University Nominee	

6.	**Dr. K. Muthukumar** Professor, Department of chemical engineering, National Institute of Technology, Tiruchirappalli – 620 015.	Member – University Nominee	
7.	**Dr. V. M. Shanthi** Principal, Government College of Engineering, Srirangam, Trichy – Madurai /highway, Sethurappatti Road, Trichy - 620012.	Member – University Nominee	
8.	**Dr. R. Kamaraj** Controller of Examinations, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member - CoE	
9.	**Dr. M. Maheswari** Professor, Department of ECE, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member – HoD/ECE	
10.	**Mr. G. Gabriel Santhosh Kumar** Assistant Professor, Department of EEE, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member – HoD/EEE	
11.	**Dr. T. M. Nithya** Associate Professor, Department of CSE, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member – HoD/CSE	
12.	**Dr. H. Ramakrishnan** Assistant Professor, Department of Mechanical Engineering, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member – HoD/MECH	
13.	**Dr. S. Manikandan** Professor, Department of Information Technology, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member – HoD/IT	

14.	**Dr. B. KiranBala** Associate Professor, Department of AI&DS and AI&ML, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member – HoD/AI&DS & CSE(AI&ML)	30/5/25
15.	**Dr. J. Sasidevi** Associate Professor, Department of CSBS, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member – HoD/CSBS	30/05/25
16.	**Dr.K.Chellamuthu** Assistant Professor, Department of Mechanical Engineering K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member – HoD/ I year	30/05
17.	**Dr. S.Neelakandan** Associate Professor, Department of English, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member – HoD/English	30/5/25
18.	**Dr. M. Edwin Antony Raj** Associate Professor, Department of Mathematics, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member – HoD/Maths	
19.	**Dr.B.Rajeswari** Assistant Professor, Department of Chemistry, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member – HoD/Chemistry	30/5/25
20.	**Dr. R. Manimegalai** Assistant Professor, Department of Physics, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member – HoD/Physics	30/05/25
21.	**Dr. A. Premavasumathi** Assistant Professor, Department of MBA, K.Ramakrishnan College of Engineering, Samayapuram, Trichy – 621 112	HoD/MBA	

22.	**Dr. K. Lenin** Professor & Head, Centre for Student Affairs K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member - Faculty	
23.	**Dr. K. Priyadarshini** Professor & IQAC Coordinator, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member - Faculty	
24.	**Dr. C. Jeyalakshmi** Professor, Department of ECE, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member - Faculty	
25.	**Dr. L. Amudha** Assistant Professor, Department of CSE, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member - Faculty	
26.	**Dr. K. Dhayalini** Professor & Head, Centre for Academic Affairs, K. Ramakrishnan College of Engineering, Samayapuram, Trichy-621 112	Member Secretary - Principal Nominee	

The following member expressed his inability to attend the meeting due to his preoccupation.

Mr. Rajesh Ramachandran
Global Chief digital Officer and Managing Director,
ABB Innovation Centre,
KEB Colony, Industrial Area,
Hoodi, Bangalore 560048

The minutes of the meeting as follows:

ITEM No. AC: 9:2025:1.0
1.0 Welcome address by the Chairman of the Academic Council
   ❖ The Academic Council Chairman Dr. D. Srinivasan, Principal welcomed the members of Academic Council for the meeting and opined that the college would benefit immensely for their visionary advice. He thanked them for sparing their valuable time from their busy schedule to participate and helped the college in taking appropriate decisions.

❖ Dr. K. Dhayalini, Professor, Department of EEE and Head, Centre for Academic Affairs took up the items listed in the agenda for discussion one by one and presented in the academic council meeting.

ITEM No. AC: 9:2025:2.0
2.0 Confirmation of the minutes of the 8th Academic Council meeting held on 31.05.2024

❖ Dr. K. Dhayalini, Head, Academic Affairs and member Secretary presented and explained the ActionTaken Report of the 8th Academic Council meeting minutes for approval.
❖ The Chairman, Academic council Dr. D. Srinivasan requested the council to confirm theminutes of the 8th academic council meeting held on 31st May 2024.
❖ The suggestions and recommendations given in the 8th Academic Council meeting was incorporated and implemented in the curriculum and regulation.
❖ Dr. K. Dhayalini, Member Secretary, requested for the confirmation of the minutes of 8th meeting of Academic Council.

The committee resolved and confirmed the minutes of 8th Academic Council Meeting held on 31st May 2024.

ITEM No. AC: 9:2025:3.0
3.0 To approve the curriculum and syllabus of fifth, sixth, seventh and eighth semester B.E/B.Tech program as recommended by the respective BOS. (Applicable for 2023-24 batches onwards) Curriculum also includes Problem Based Learning (PMBL), Project Based Learning (PRBL), Emerging Elective (EE), Professional Elective (PE) and Open Elective (OE) courses.

✓ B.E   - Computer Science and Engineering
✓ B.E   - CSE (Artificial Intelligence and Machine Learning)
✓ B.E   - Electronics and Communication Engineering
✓ B.E   - Electrical and Electronics Engineering
✓ B.E   - Mechanical Engineering

✓ B.Tech - Artificial Intelligence and Data Science
✓ B.Tech - Computer Science and Business Systems
✓ B.Tech - Information Technology

and to approve the minutes of the Board of Studies of the above departments

3.1 Department of CSE
❖ **Dr. T. M. Nithya**, HoD/ CSE briefed about their BoS members and presented the fifth, sixth, seventh and eighth semester curriculum and syllabus. The following points were discussed

✓ The credits for Professional Elective Theory and Practical courses need to be verified.

- ✓ Self-study hours can be limited to 4 to 6 hours, and a uniform structure for self-study should be implemented.
- ✓ For the Emerging Elective subject Health Care, the members sought clarification regarding the student ratio opting for the course.
- ✓ The subject Financial Data Analytics can be considered as an Open Elective for CSE. The members also suggested that open electives should not be domain-specific.

The council resolved to approve the R2023 curriculum and syllabus of third and fourth semester fifth, sixth, seventh and eighth semester theory, theory cum practical, theory cum project, Problem Based Learning (PMBL), Project based Learning (PRBL) and practical subjects.

3.2 Department of CSE (Artificial Intelligence and Machine Learning)
❖ **Dr. B. Kiran Bala**, HoD/ CSE (AI&ML) briefed about their BoS members and presented the fifth, sixth, seventh and eighth semester curriculum and syllabus. The following points were discussed

- ✓ The subject Universal Human Values can be offered as an Open Elective.
- ✓ The total contact hours need to be verified.

The council resolved to approve the R2023 curriculum and syllabus of fifth, sixth, seventh and eighth semester theory, theory cum practical, theory cum project, Problem Based Learning (PMBL), Project based Learning (PRBL) and practical subjects.

3.3 Department of ECE
❖ **Dr. M. Maheswari**, HoD/ ECE briefed about their BoS members and presented the fifth, sixth, seventh and eighth semester curriculum and syllabus. The following points were discussed

- ✓ The subject IoT-Based System Design can be considered for TCPR and the LTPS structure should be reviewed.
- ✓ For the subject AI in Chip Design, the LTPS details need to be verified.
- ✓ For the subject Underwater Communication, the subject code under the HS category should be revised

The council resolved to approve the R2023 curriculum and syllabus of fifth, sixth, seventh and eighth semester theory, theory cum practical, theory cum project, Problem Based Learning (PMBL), Project based Learning (PRBL) and practical subjects.

3.4 Department of EEE
❖ **Mr. G. Gabriel Santhosh Kumar**, HoD/ EEE briefed about their BoS members and presented the fifth, sixth, seventh and eighth semester curriculum and syllabus. The following points were discussed

- ✓ The LTPS structure needs to be updated.

✓ The expert enquired about the subject Machine Learning, and it was suggested that if the same subject is being offered by other departments, the same syllabus can be followed.
✓ The Members enquired about the subject Power Plant Engineering, its components were discussed, and clarifications were provided.
✓ The availability of the Process Control Lab was confirmed.
✓ When the same content is offered for Open Elective, the same subject code can be retained.
✓ For similar subjects, the same code should be used and the subject title may be renamed for clarity.

The council resolved to approve the R2023 curriculum and syllabus of fifth, sixth, seventh and eighth semester theory, theory cum practical, theory cum project, Problem Based Learning (PMBL), Project based Learning (PRBL) and practical subjects.

3.5 Department of Mechanical Engineering

❖ **Dr. H. Ramakrishnan**, HoD/ Mechanical Engineering briefed about their BoS members and presented the fifth, sixth, seventh and eighth semester curriculum and syllabus. The following points were discussed

✓ The Professional Elective Instrumentation in Thermal Engineering can be renamed as Advanced Instrumentation Techniques in Thermal Engineering, and its content should be revised accordingly.
✓ Regarding the subject AI for Manufacturing, it was suggested that offering one AI course is sufficient.
✓ The subject Engineering Standards was discussed, and it was recommended that it should not be categorized under Professional Electives but instead be included as a Core subject.

The council resolved to approve the R2023 curriculum and syllabus of fifth, sixth, seventh and eighth semester theory, theory cum practical, theory cum project, Problem Based Learning (PMBL), Project based Learning (PRBL) and practical subjects.

3.6 Department of Artificial Intelligence and Data Science

❖ **Dr. B. Kiran Bala**, HoD/ AI&DS briefed about their BoS members and presented the fifth, sixth, seventh and eighth semester curriculum and syllabus. The following points were discussed

✓ The subject Healthcare Analytics was discussed. The expert suggested that if the course is common to other departments, a common course code and syllabus can be adopted. Alternatively, the course title and content may be modified.

The council resolved to approve the R2023 curriculum and syllabus of fifth, sixth, seventh and eighth semester theory, theory cum practical, theory cum project, Problem Based Learning (PMBL), Project based Learning (PRBL) and practical subjects.

3.7 Department of Computer Science and business Systems

❖ **Dr. J. Sasidevi**, HoD/ CSBS briefed about their BoS members and presented the fifth, sixth, seventh and eighth semester curriculum and syllabus. The following point was discussed

✓ The members suggested that the subject Machine Learning should have a common course code and content across departments.

The council resolved to approve the R2023 curriculum and syllabus of fifth, sixth, seventh and eighth semester theory, theory cum practical, theory cum project, Problem Based Learning (PMBL), Project based Learning (PRBL) and practical subjects.

3.8 Department of Information Technology

❖ **Dr. S. Manaikandan**, HoD/ IT briefed about their BoS members and presented the fifth, sixth, seventh and eighth semester curriculum and syllabus. The following points were discussed

✓ The experts inquired about the subject Free Open Source Software and received clarification on the content included in the syllabus.
✓ It was suggested that only one subject may be offered from the two or three available Emerging Elective options.
✓ Clarification was provided on the subject Recommender System, including its syllabus content.

The council resolved to approve the R2023 curriculum and syllabus of fifth, sixth, seventh and eighth semester theory, theory cum practical, theory cum project, Problem Based Learning (PMBL), Project based Learning (PRBL) and practical subjects.

On the whole for all Programmes the council members recommended and approved the curriculum and syllabus of Regulation 2023.

ITEM No. AC: 9:2025:4.0

4.0 To approve the modification made in the curriculum of the first and second semester B.E/B.Tech programs as recommended by the respective BOS of the following departments (Applicable for 2024-25 batches onwards)
    ❖ *B.E - Electronics and Communication Engineering*
    ❖ *B.E - Electrical and Electronics Engineering*
    ❖ *B.E - Mechanical Engineering*

Mr. K Chellamuthu, HoD/ first year briefed about their BoS members and presented the modification made in the R2023 curriculum of the first and second semester B.E/B.Tech programs as recommended by the BoS. The modification was applicable to the students admitted in the year 2024.

The council resolved to approve the R2023 syllabus in which modifications were made in first and second semester.

ITEM No. AC: 9:2025:5.0

5.0 To approve the curriculum and syllabus of the third and fourth semester MBA-Master of Business Administration program as recommended by the respective BOS.

❖ **Dr. A. Premavasumathi**, HoD/ MBA briefed about their BoS members and presented the third and fourth semester R2023 curriculum and syllabus.

The council resolved to approve the R2023 curriculum and syllabus of third and fourth semester theory, theory cum practical's and practical subjects.

ITEM No. AC: 9:2025:6.0

6.0 To consider the End Semester results of Nov/Dec 2024 examinations and presented for kind information.

The End Semester results of I, III, V & VII of UG and I &III semester of PG examinations of Nov/Dec 2024 were presented for information.

ITEM No. AC: 9:2025:7.0

7.0 To inform about the Examinations for UG and PG program during May/June 2025.

The conduction of End Semester Examination in May/June 2025 for the UG and PG programmes were informed to the expert members of the Academic Council.

ITEM No. AC: 9:2025:8.0

8.0 To inform about the submission of NBA pre-qualifier under Tier – 1 for the following departments and the progress of SAR submission.

❖ *B.E - Electronics and Communication Engineering*
❖ *B.E - Electrical and Electronics Engineering*
❖ *B.E - Mechanical Engineering*

The information regarding the submission of the pre-qualifier report under Tier -1 of the listed three programmes and the progress of the submission of SAR was informed to the expert members of the academic council.

ITEM No. AC: 9:2025:9.0

9.0 To inform about the establishment of AICTE-IDEA (Idea Development, Evaluation & Application) Lab with a funding of Rs.90 lakhs.

The establishment of Idea Lab funded by AICTE was informed to the council members

ITEM No. AC: 9:2025:10.0

10.0 To inform about the question paper pattern in the upcoming semesters in the

academic year 2025-2026.

The question paper pattern for the upcoming semester of the academic year 2025-26 was informed to the expert members. The pattern comprises of three parts with objective type, descriptive and case studies.

ITEM No. AC: 9:2025:11.0

11.0 To inform about the submission of Annual Quality Assurance Report (AQAR) for the year 2023-2024 and the progress of AQAR for the year 2024-25.

The submission of Annual Quality Assurance Report (AQAR) for the year 2023-2024 was informed and the progress of the preparation of AQAR for the year 2024-25 was informed to the expert members.

ITEM No. AC: 9:2025:12.0

12.0 Forum would be open for further discussion and advice.

After discussions, the council provided the following suggestions and were accepted for implementation.

- ❖ The Principal suggested that a uniform format should be followed in all PowerPoint presentations.
- ❖ The members congratulated the team on the establishment of the IDEA Lab.
- ❖ It was noted that Bloom's Taxonomy Levels 5 and 6 cannot be applied to all subjects; they are more appropriate for Project-Based Learning.
- ❖ A new question paper model was proposed for the Model Examination and End Semester Examination (ESE).

Finally, Dr. K. Dhayalini, Professor and Head- Academic Affairs expressed her gratitude to the members for their valuable suggestions and approvals to improve the academic quality of the institution and the meeting ended up in a fruitful manner.

MEMBER SECRETARY

ACADEMIC COUNCIL CHAIRMAN

PHOTOGRAPHS