

**RAJAGIRI SCHOOL OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)**

**MINUTES OF MEETING**

**SEVENTH MEETING OF THE ACADEMIC COUNCIL**

**DATE & TIME: 30 JANUARY 2024. 11.00 AM**

**VENUE: RSET BOARD ROOM & ONLINE**



*[Handwritten signature in green ink]*

**Members present:**

1	Dr.P.S. Sreejith , Principal, RSET	Chairman
2	Rev. Dr. Jaison Paul Mulerickal CMI, Vice principal, RSET	Member
3	Dr. Vinod Kumar P.B, Controller of Examinations and Dean PG	Member
4	Rev.Dr. Joel George Pullolil CMI, Astd. Director, RSET& Dean UG	Member
5	Dr. K Paulose Jacob, Dean Research, RSET	Member
6	Vacant	University Nominee
7	Vacant	University Nominee
8	Vacant	University Nominee
9	Dr.John Jose, Associate Professor, IIT Guwahati	Member
10	Rev. Dr. Joseph Mathew CMI	Member
11	Rev. Fr. Thomas P J CMI	Member
12	Rev. Fr. Mejo Paul CMI	Member
13	Mr. Rajeev MullakkaraAzhuvath, Enterprise Architect, TCS, Kochi	Member
14	Dr. Binoy Alias M (H O D, Dept: of Civil Engineering)	Member
15	Dr. Mathew Joseph (H O D, Dept:of Mechanical Engineering)	Member
16	Dr. Rinu Alice Koshy (H O D, Dept:of Electrical & Electronics Engineering)	Member
17	Dr. Jisa David (H O D, Dept:of Electronics & Communication Engineering)	Member
18	Dr. Preetha K G (H O D, Dept:of Computer Science & Engineering)	Member



19	Dr. Neeba E A, (H O D, Dept:of Information Technology)	Member
20	Dr. Hari C V, (H O D, Dept: of Applied Electronics & Instrumentation)	Member
21	Dr. Sherly K K (H O D, Dept: of Artificial Intelligence & Data Science)	Member
22	Dr. Binu R (H O D, Dept. of Mathematics)	Member
23	Dr. Anju C , (H O D, Dept:of Basic Sciences & Humanities)	Member
24	Dr. Manoj G Tharian (IQAC - Coordinator)	Member-secretary

**Leave of absence: Nil**

The meeting commenced at 11.00 am with a silent prayer.

Prof. Dr. P. S. Sreejith, Principal & Chairman welcomed all the members to the meeting and introduced the new members of the reconstituted Academic Council.

This was followed by detailed discussions on the agenda.

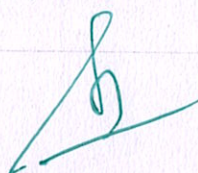
**Item No. AC 7/01 –To confirm the minutes of the sixth Academic Council meeting of RSET held on 22-08-2023.**

Chairman presented the minutes of the sixth meeting of the Academic Council held on 22.08.2023 and the Academic Council resolved to approve the minutes.

**Item No.AC 7/02 – Ratification of the scheme and syllabus of B.Tech& M Tech Programmes as recommended by the respective BOS for the upcoming academic sessions.**

Heads of the department presented the scheme and syllabus of courses offered in B.Tech& M Tech Programmes, as recommended by the respective BOS for the upcoming academic sessions. Details of the same are given below:

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**




- 1) B.Tech,S6, Syllabus for all courses(modification-2021 admission): The syllabus was modified as per the suggestion given by the BoS members. The suggestions by BoS are incorporated in the syllabus and the same was approved by the academic council.
- 2) B.Tech, S2, syllabus for the course Logic System Design (New Syllabus, 2023 admission): This is a 5 credit course which contains both theory and lab part. The syllabus was approved by the academic council.
- 3) M.TechS2, Syllabus for all courses (New Syllabus, 2023 admission): All the courses are new for M Tech CSIS. The syllabus was modified based on the suggestions from BoS members and the same was approved by academic council.
- 4) Diploma in Design Thinking- This is a new programme in collaboration with Gigg Technologies Private Limited. Syllabus was approved by the BoS. Academic council members suggested that the programme should include at least 3 courses each with 3 credits.

#### **DEPARTMENT OF CIVILENGINEERING**

- 1) Existing course for Semester II Engineering Mechanics, common to all branches is renamed as Applied Mechanics, retaining the syllabus and is offered to B Tech programme in AE, CE, EC, EE, and ME.
- 2) For the B Tech programme in CS, AD, and IT, the syllabus of the course, Engineering Mechanics is modified and it has been made a 3 credit course
- 3) Syllabus for the courses, Applied Mechanics , Engineering Mechanics and Basics of Civil and Mechanical Engineering (3-0-2, 4 credit course) are approved by the academic council.

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

- 1) Approval of syllabus for the courses 102002/CO200E - BASICS OF INSTRUMENTATION AND MECHANICAL ENGINEERING (offered to Applied Electronics & Instrumentation in Semester 2) and 102002/CO200E - BASICS OF CIVIL AND MECHANICAL ENGINEERING (offered to Electrical & Electronics in Semester 2):

The S2syllabus approved in the 7<sup>th</sup> Meeting of Board of Studies of Mechanical Engineering for the above courses in the 2023 curriculum (Rev 2.0) was presented before the Academic Council. After thorough discussion, it was resolved that the syllabus for the mentioned courses can be approved.



2) Approval of B.Tech 2023 Scheme – S3&S4 Syllabus

- a. 102006/ME300A - MECHANICS OF MATERIALS
- b. 102006/ME300C - ENGINEERING THERMODYNAMICS
- c. 102006/ME300D - MATERIALS SCIENCE AND ENGINEERING
- d. 102006/ME322S - COMPUTER AIDED MODELLING LAB
- e. 102006/ME400A - MACHINE TOOLS AND METROLOGY
- f. 102006/ME400C - FLUID MECHANICS AND HYDRAULIC MACHINES
- g. 102006/ME400D - THERMAL SYSTEMS ENGINEERING
- h. 102006/ME900E - PRODUCTION AND OPERATIONS MANAGEMENT
- i. 102006/ME422S - FLUID MECHANICS AND HYDRAULIC MACHINES LAB
- j. 102907/ME301M - COMPUTER AIDED DESIGN AND MANUFACTURING (MINOR offered to all branches except ME in semester 3)
- k. 102907/ME401 - ADDITIVE MANUFACTURING (MINOR offered to all branches except ME in semester 4)

The above S3 and S4 courses' syllabi proposed for the 2023 curriculum (Rev 2.0) in Mechanical Engineering, endorsed during the 7th Board of Studies Meeting, was presented before the Academic Council. After a thorough discussion, it was decided to postpone the approval of these syllabi to the next Academic Council meeting, along with the consideration of S3 and S4 syllabi from other departments.

HOD-ME shared insights into the procedural approach adopted in developing the 2023 curriculum for the Mechanical Engineering Department, and the committee suggested replicating similar procedures in other departments.

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE**

1) Approval of Department Vision & Mission:

Vision statement was approved by the council. Mission requires modification (suggestion: make it specific to the programme offered).

2) Approval of AI & DS 2023 modified curriculum:

The council suggested retaining the two elective papers removed from the curriculum.

3) Approval of B.Tech, S2 syllabus for the course, Fundamentals of Python Programming:

The syllabus for the course Fundamentals of Python Programming was approved by the Academic Council.

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**



1. B. Tech 2023 admission S2  
Course: Basics of Electrical & Electronics Engineering (Offered to Civil & Mechanical department)  
The syllabus of above-mentioned course was discussed.  
Course: Solid State Devices (Offered to ECE department)  
The syllabus of above-mentioned course was discussed.
2. B. Tech 2021 admission S6  
S6 B. Tech Honors/MOOC course was discussed.
3. M. Tech 2023 admission S2 – VLSI & Embedded System  
  
S2 M.Tech syllabus was discussed and it was suggested to include emerging technologies or topics in the C2S project in elective subjects.  
MOOC courses were also discussed.

#### DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

1. The Syllabus need not be explicitly changed. 2- In Project Phase 1 preliminary investigation can also be incorporated. 3- Mark redistribution of projects has to be done with more weightage to project implementation. 4- More hardware experiments have to be incorporated in the Control Systems lab.

The Academic Council suggested having a common project evaluation pattern in all the departments thereby the evaluation pattern cannot be changed.

The various MOOC Courses proposed for S2M.Tech and S6 Honors are :

1. Power Quality Improvement Technique.
2. Design of Power Electronic Converters.
3. Digital Protection of Power System.
4. Control System Design.

Since Digital protection of Power System is not very much relevant for Industrial Drives and Control, Design of Power Electronic Converters is approved by the BoS and by the Academic Council.

#### DEPARTMENT OF APPLIED ELECTRONICS & INSTRUMENTATION

- 1) Revised syllabus for the 7th semester courses (2021 admissions) with minor changes was approved by the Academic Council.



- 2) Syllabus for the course 102002/CO200E - Basics of Instrumentation & Mechanical Engineering (2023 admissions) was approved by the Academic Council.
- 3) Following MOOC courses for S5 Minor program in Robotics and Automation was approved by Academic Council

1. Machine Learning for Engineering and science applications

By Prof. Balaji Srinivasan, Prof. Ganapathykrishnamurthi | IT Madras

[https://onlinecourses.nptel.ac.in/noc24\\_cs38/preview](https://onlinecourses.nptel.ac.in/noc24_cs38/preview)

2. Introduction to Machine Learning By Prof. Balaraman Ravindran | IIT Madras

[https://onlinecourses.nptel.ac.in/noc24\\_cs51/preview](https://onlinecourses.nptel.ac.in/noc24_cs51/preview)

3. An Introduction to Artificial Intelligence

By Prof. Mausam | IIT Delhi

[https://onlinecourses.nptel.ac.in/noc24\\_cs08/preview](https://onlinecourses.nptel.ac.in/noc24_cs08/preview)

4. Machine Learning, ML

By Prof. Carl Gustaf Jansson | KTH, The Royal Institute of Technology

[https://onlinecourses.nptel.ac.in/noc24\\_cs60/preview](https://onlinecourses.nptel.ac.in/noc24_cs60/preview)

5. Modern Computer Vision

By Prof. A.N. Rajagopalan | IIT Madras

[https://onlinecourses.nptel.ac.in/noc24\\_ee21/preview](https://onlinecourses.nptel.ac.in/noc24_ee21/preview)

- 4) Following MOOC courses for S5 Minor program in Robotics and Automation was approved by Academic Council

1. Robotics: Basics and Selected Advanced Concepts

By Prof. Ashitava Ghosal | IISc Bangalore

[https://onlinecourses.nptel.ac.in/noc24\\_me23/preview](https://onlinecourses.nptel.ac.in/noc24_me23/preview)

2. Robotics and Control: Theory and Practice

By Prof. N. Sukavanam, Prof. M. Felix Orlando | IIT Roorkee

[https://onlinecourses.nptel.ac.in/noc24\\_me18/preview](https://onlinecourses.nptel.ac.in/noc24_me18/preview)

3. Advanced Robotics

By Prof. Ashish Dutta | IIT Kanpur

[https://onlinecourses.nptel.ac.in/noc24\\_me24/preview](https://onlinecourses.nptel.ac.in/noc24_me24/preview)



## **DEPARTMENT OF INFORMATION TECHNOLOGY**

The CSBS Curriculum for the year 2023 was presented and approved.

The syllabus for Semester 6 CU (2021 admission) was also presented and approved.

Additionally, S2 IT- Logic System Design (2023 admission) which is common in CSE was presented by the CSE department, for approval.

The syllabi for Semester 5 (IT) and Semester 5 (CU) MOOC and Honors courses were submitted for consideration and approval during the meeting.

### **Item No.AC 07/03 –Approval of Academic calendar and Examination calendar of even semester for the academic year 2023-2024.**

The academic calendar and examination calendar of undergraduate and Post Graduate programmes were presented by the respective Deans (UG & PG) and the Academic Council approved the same. (Annexure-1)

### **Item No.AC 07/04 - Approval of Starting of new M. Tech Programmes**

- (1) Computer Science & Engineering with an intake of 12 seats under CSE dept.
- (2) Computer Science & Engineering (Artificial Intelligence & Machine Learning with an intake of 12 seats under AI Dept.)
- (3) Data Science with an intake of 12 seats under IT Dept.

The Academic Council approved the above programmes

### **Item No.AC 07/05- Approval of Increase in Intake in B Tech Computer Science & Engineering from 180 seats to 240 seats.**

The Academic Council approved the same.

### **Item No.AC 07/06 Approval of Closure of M Tech Courses.**

- (1) Communication Engineering
- (2) Industrial Drives & Control
- (3) Network Engineering

The Academic Council approved the same.

### **Item No.AC 07/07- Any other item with the consent of the chair**

- (a) Result Analysis of previous Even Semesters (S2/S4/S6) and Result Summary of 2020-2024 batch (up to sixth semester) (Annexure-2)





- (b) Report on changes made in the Curriculum 2.0 (2023 Admission onwards) which was presented in the previous Academic Council held on 22/08/2023(Annexure-3)
- (c) Changes in marks distribution in Curriculum 2.0 (2023 Admission onwards) (Annexure-4)
- (d) Changes in B Tech Regulations 2023 (Annexure-5)
- (e) Late pass report ( M Tech 2021-2023) Ms. Irfana Sageer ( Annexure-6)
- (f) Naming of department: Newly formed Department: Department of Artificial Intelligence& Data Science (Name subject to approval by AICTE).
- (g) **Report regarding NPTEL MOOC courses:** In the 2020-24 Batch of B.Tech program, 93 students have successfully completed the Minor courses offered by various departments in S3&S4 and they are currently doing the final year mini project for the Minor program. Out of this 93, twenty students couldn't clear the final exam for the NPTEL MOOC courses in the third year. In the HoD meeting held on 11<sup>th</sup> January, 2024, it was suggested that the final examination for the MOOC courses for these students may be conducted by the respective departments with the support of the Examination Cell. This was suggested since the students won't get a chance to repeat the MOOC in NPTEL before the completion of their B.Tech program. Only the students who have completed all the requirements for the NPTEL MOOC course final exam will be permitted to write the examination conducted by the department.

The meeting came to an end at 1.00 p.m. and the Principal and Chairman-RSET Academic Council Dr. P.S. Sreejith thanked all the Academic Council members for their active participation and valuable suggestions.

Dr. Manoj G. Tharian (Member Secretary)  
30-01-2024.

Prof. Dr. P. S. SREEJITH  
Chairman & Principal RSET

