KPR Institute of Engineering and Technology
(Autonomous)

KPRIET
Learn Beyond

12th ACADEMIC COUNCIL

MINUTES OF THE MEETING

Venue: The Legend, Imperial Hall, KPRIET (Hybrid Mode)

Date: 14 June 2025

Time: 10.30 am

Meeting ID: https://zoom.us/j/94559897496?pwd=R9c1keZ7CQkwDUqk1r2MPRopA5hnC0.1

Members Present:

S. No	Name of the member	Category	Signature
1.	Dr. D. Saravanan, Principal	Chairman	
2.	Dr. V. Manikandan Professor, Department of EEE Coimbatore Institute of Technology Coimbatore	Anna University Nominee	14/6/2025
3.	Dr. P. Sathiya Professor, Department of Production Engineering, National Institute of Technology Trichy	Anna University Nominee	14/6/25
4.	Dr. C. Santhi Professor and Head Department of Electronics and Communication Engineering Government College of Technology Coimbatore	Anna University Nominee	—
5.	Dr. Vijay Natarajan Department of Computer Science and Automation Indian Institute of Science Bangalore	Academic Expert	ON LINE
6.	Mr. S. Parthasarathy Chief Programme Officer - Executive Education IIMB, Bangalore	Industry Expert	ON LINE
7.	Mr. R. Balasubramanian Advisor, Lead SME – Civil Engg. College Connect, L&T EduTech Chennai	Industry Expert	ON LINE
8.	Dr. A. M. Natarajan Chief executive	Academic Expert	14.6.25

9.	Mr. R. Pavithran (2011 – 2015 Batch - EC) Senior Associate, Cognizant Technology Solutions Coimbatore pavithran.tup@gmail.com 9994978185	Alumni (Special Invitee)	
10.	Dr. N. Saranya Assistant Professor III & HoDi/c Artificial Intelligence and Data Science	Member	
11.	Dr. K S Tamilselvan Professor & HoD Biomedical Engineering	Member	
12.	Dr. S. Balasubramanian Professor & HoD Chemical Engineering	Member	
13.	Dr. G. Anusha Professor & HoD Civil Engineering	Member	
14.	Dr. R. Devipriya Professor & HoD Computer Science and Engineering	Member	
15.	Mr. G. Pandiya Rajan Assistant Professor III & HoDi/c Computer Science and Engineering (AI&ML)	Member	
16.	Dr. A. Bazila Banu Professor & HoD Computer Science and Business Systems	Member	
17.	Dr. M. Kathirvelu Professor & HoD Electronics and Communication Engineering	Member	
18.	Dr. K. Mohanasundaram Professor & HoD Electrical and Electronics Engineering	Member	
19.	Ms. S. Muthu Lakshmi Assistant Professor II Information Technology	Member	
20.	Dr. S. Ramesh Babu Professor & HoD Mechanical Engineering	Member	

21.	Dr. R. Kiruba Shankar Professor & HoD Mechatronics Engineering	Member	14/6/25
22.	Ms. S. Dhivya Director Master of Business Administration	Member	14/06/25
23.	Dr. K. Karthikeyan Professor & HoD Mathematics	Member	14/6/25
24.	Dr. E. Ranjith Kumar Professor & HoD Physics	Member	14.6.25
25.	Dr. M.S. Karthikeyan Professor & HoD Chemistry	Member	14/6/25
26.	Dr. T. Jayasudha Assistant Professor (Sl.G) & HoD English	Member	14/6/25
28.	Dr. K. S. Elango Associate Professor Civil Engineering	Senior Faculty	14/06/2025
29.	Dr. R. Manjula devi Head - IQAC	Senior Faculty	14/6/25
30.	Dr. V. Parimala Assistant Professor (III) Electrical and Electronics Engineering	Senior Faculty	14/6/25
31.	Dr. B. Nagarajan Professor Artificial Intelligence and Data Science	Additional Controller of Examinations	14/6/25
32	Dr. A. Balamurugan Head Centre for Academic Courses	Member Secretary	14.6.25

The Industry Expert members Mr. D. Suresh, Centre Head, Spark MINDA Technical Centre (SMIT), Pune, Mr. Prem Narayanan, Engineering Manager, GCP, Google India Pvt Ltd, Hyderabad, could not attend the meeting due to their prior commitments and unavoidable circumstances.

Minutes of the 12th Academic Council Meeting held on 14.06.2025

The Chairman of the Academic Council welcomed the gathering and outlined the key agenda points scheduled for discussion. He requested the Head, Centre for Academic Courses to present the subsequent agenda items for the Council's consideration.

1. Confirmation of the minutes of 11th Academic Council Meeting:

The Academic Council Members confirmed the minutes of 11th Academic Council Meeting held on 28th December 2024.

2. Action taken on the minutes of the 11th Academic Council Meeting:

The minutes of the 11th Academic Council Meeting and the action taken thereon were approved.

(i). Suggested forming framework for providing the credit for student participation in technical events like Hackathons:

Framework for awarding credit to students who actively participate and excel in technical Competitions are as follows:

a. Eligibility Criteria

- Participation must be in recognized technical events, such as the Smart India Hackathon, Intel AI Hackathon, or events organized/sponsored by reputed bodies like *IEEE* or *ACM*.
- Events should be at the regional, national, or international level.
- For events held during the academic term, prior approval must be obtained from the respective department.

b. Credit Structure

Credits will be awarded to students who secure a position among the Top 3 or receive a Special Jury Award, based on the following structure:

- 1 Credit for achievements in Regional-level events conducted by institutions ranked within the Top 200 in the NIRF rankings.
- 2 Credits for National-level events organized by institutions ranked within the Top 100 in NIRF.
- 3 Credits for International-level competitions hosted by institutions ranked within the Top 300 in the QS World University Rankings, or participation in AICTE's Smart India Hackathon (both Software and Hardware editions).

c. Documentation Requirements

To be eligible for credit, students must submit the following:

- Event brochure or official invitation.
- Certificate of participation or award.
- A one-page outcome report summarizing the problem statement, approach taken, and outcomes achieved.

- A presentation video, if available.

d. Credit Limitations:

- A maximum of 3 credits per semester may be earned under this category
- These credits will be reflected in the student's grade sheet.
- However, they will not be considered in the computation of GPA or CGPA.

e. Co-Curricular Participation Requirement:

- Active participation in co-curricular activities is mandatory during the first year of the academic program.
- Recognized activities include:
  - National Cadet Corps (NCC)
  - National Sports Organization (NSO)
  - National Service Scheme (NSS)
  - Youth Red Cross (YRC)
  - Technical Club Houses (TCH)
  - Cultural Club Houses (CCH)

Students who secure prize-winning positions **(**Top 3**)** through participation in events organized by reputed institutions, organizations or industries are eligible for the following credit allocation:

- 1 Credit for achievements at the State or National level**,** organized by institutions ranked within the Top 100 in NIRF**.**
- 2 Credits for achievements at the international level**,** conducted by institutions ranked within the Top 300 in the QS World University Rankings.

These achievements and the corresponding credits will be recorded in the grade sheet but will not contribute to the GPA or CGPA. A maximum of 3 credits per semester can be earned under this category.

(ii). Suggested providing PEOs for MBA:

PEOs for MBA Programme are

PEO1–Business Competence: To develop managerial competence and leadership qualities to address business needs globally.

PEO2–Contribution to Industry Ecosystem: To collaborate with industry business ecosystem and contribute for economic development.

PEO3–Societal Impact: To create sustainable impact in the society as ethical and responsible leaders with global perspective.

3. (i) Head, Centre for Academic Courses presented the Highlights of Regulations 2025

TO CONSIDER AND APPROVE THE REGULATIONS 2025 FOR UG DEGREE PROGRAMMES OF KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY(KPRIET).

RESOLVED TO APPROVE the Regulations 2025 for UG degree programmes of KPRIET

UG REGULATIONS 2025

3. (ii) Presentation by Chairpersons of various Board of Studies

Board of Studies meeting was conducted for various programmes in hybrid mode as mentioned below:

Sl. No	Name of the Board	Meeting Number	Date of the meeting
1	Artificial Intelligence and Data Science	11	31.05.2025
2	Biomedical Engineering	12	02.06.2025
3	Chemical Engineering	12	30.05.2025
4	Civil Engineering	13	31.05.2025
5	Computer Science and Business Systems	07	31.05.2025
6	Computer Science and Engineering	13	31.05.2025
7	Computer Science and Engineering (AI & ML)	07	31.05.2025
8	Computer Science and Engineering (Cyber Security)	06	31.05.2025
9	Electronics and Communication Engineering	13	02.06.2025
10	Electrical and Electronics Engineering	12	31.05.2025
11	Information Technology	07	31.05.2025
12	Mechanical Engineering	13	29.05.2025
13	Mechatronics Engineering	07	30.05.2025
14	Science and Humanities	12	27.05.2025
15	Master of Business Administration	02	04.06.2025
16	M.Tech – Data Sciences	01	31.06.2025

The 12th Standing Committee Meeting was held on 10.06.2025 at Daffodil. The Standing Committee reviewed the recommendations of the above Boards of Studies presented by the respective Chairperson and forwarded the same to the Academic Council for approval.

Chairpersons of various boards presented the following recommendations:

Dr. N. Saranya, Chairperson, Artificial Intelligence and Data Science moved the following items based on the decision of the Board of Studies in Artificial Intelligence and Data Science.

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

B.Tech. Artificial Intelligence and Data Science – Curriculum Syllabus

b. TO CONSIDER AND APPROVE THE BOARD'S RECOMMENDATIONS PERTAINING TO REGULATIONS 2021 FOR UG PROGRAMME

RESOLVED TO APPROVE

1. The inclusion of the following Value-Added Courses
    - U21VAD05 - Next Gen AI: Smart Automation Tools
    - U21VAD06 - Data Visualization
2. The inclusion of the following NPTEL Courses
    - noc25-cs98 - Applied Accelerated Artificial Intelligence
    - noc25-cs100 - Social Network Analysis
    - noc25-cs117 - Privacy and Security in Online social media
    - noc25-cs118 - Responsible & Safe AI Systems
    - noc25-cs120 - Practical Cyber Security for Cyber Security Practitioners
    - noc25-cs146 - Introduction to Industry 4.0 and Industrial Internet of Things
    - noc25-cs161 - Introduction to Large Language Models (LLMs)

Dr. K. S. Tamilselvan, Chairperson, Biomedical Engineering moved the following items based on the decision of the Board of Studies in Biomedical Engineering.

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

B.E. Biomedical Engineering – Curriculum and Syllabus

b. TO CONSIDER AND APPROVE THE BOARD'S RECOMMENDATIONS PERTAINING TO REGULATIONS 2021 FOR UG PROGRAMME

RESOLVED TO APPROVE

1. The inclusion of U21OBM07 - Biosignal Interface and Analysis with LabVIEW and U21OBM08 - Medical Electronics Design as Industry offered one Credit Courses

2. The inclusion of the following Value-Added Courses under Regulations 2021- UG Programme
    - U21VAD01 - Building Biomedical Devices: Design to Prototype
    - U21VAD02 - Smart Healthcare Systems and IoT in Biomedicine

3. The inclusion of the following Capsule Courses under Regulations 2021- UG Programme
    - U21CPG26 - Endoscopy and Laparoscopy
    - U21CPG27 - Altium - PCB Design software

4. The inclusion of the following NPTEL Courses for UG Programme
    - noc25-bt53 - Genetic Engineering: Theory and Application
    - noc25-ch96 - Artificial Intelligence in Drug Discovery and Development
    - noc25-ee110 - Microelectronics: Devices to Circuits
    - noc25-ee142 - Electronic Systems for Cancer Diagnosis
    - noc25-ee144 - Fabrication Techniques for MEMs-based Sensors: Clinical Perspective
    - noc25-ee163 - Electronic Systems Design: Hands-on Circuits and PCB Design with CAD Software
    - noc25-ge45 - Biomedical Ultrasound: Fundamentals of Imaging and Micromachined Transducers
    - noc25-ge58 - Neuroscience of Human Movements

Dr. S. Balasubramanian, Chairperson, Chemical Engineering moved the following items based on the decision of the Board of Studies in Chemical Engineering.

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

   RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

   B.E. Chemical Engineering – Curriculum and Syllabus

b. TO CONSIDER AND APPROVE THE BOARD'S RECOMMENDATIONS PERTAINING TO REGULATIONS 2021 FOR UG PROGRAMME

   RESOLVED TO APPROVE

   1. Inclusion of the following Capsule Courses under Regulations 2021- UG Programme
       - U21CPG35 - Fluid Flow Simulation for Beginners
       - U21CPG36 - Data Analytics for Chemical Engineers

   2. Inclusion of the following NPTEL Courses for UG Programme under Regulations 2021
       - noc25-ch06 - Aspen Plus Simulation Software - A Basic Course for Beginners
       - noc25-cs43 - Introduction to Industry 4.0 and Industrial Internet of Things
       - noc25-ch96 - Artificial intelligence in drug discovery and development

- noc25-ce58 - Sustainable Engineering Concepts and Life Cycle Analysis
- noc23-me142 - Theory of Fire Propagation (Fire Dynamics)
- noc20-ag27 - Thermal Processing of Foods

Dr.G.Anusha, Chairperson, Civil Engineering moved the following items based on the decision of the Board of Studies in Civil Engineering.

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

B.E. Civil Engineering – Curriculum and Syllabus

Dr. A. Bazila Banu, Chairperson, Computer Science and Business Systems moved the following items based on the decision of the Board of Studies in Computer Science and Business Systems.

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

B.Tech. Computer Science and Business Systems – Curriculum and Syllabus

Dr. R. Devi Priya, Chairperson, Computer Science and Engineering moved the following items based on the decision of the Board of Studies in Computer Science and Engineering.

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

B.E. Computer Science and Engineering – Curriculum and Syllabus

b. TO CONSIDER AND APPROVE THE BOARD'S RECOMMENDATIONS PERTAINING TO REGULATIONS 2021 FOR UG PROGRAMME

RESOLVED TO APPROVE

1. Inclusion of the following One Credit Courses under Regulations 2021- UG Programme
    - U21OCS25 – Generative AI in Action: From Text to Image
    - U21OCS26 - Smart Systems: AI Techniques for Everyday Applications
    - U21OCS27 – Industrial IoT
    - U21OCS28 - AI and secure CPS for autonomous vehicles

2. Inclusion of the following Value-Added Courses under Regulations 2021- UG Programme
    - U21VCS11 – Flutter
    - U21VCS12 - GoLang
    - U21VCS13 - MERN Stack Development

3. Inclusion of the following Capsule Courses under Regulations 2021- UG Programme
    - U21CPG32 - R Programming
    - U21CPG33 - Ethical Hacking and Penetration Testing Basics

4. Inclusion of the following NPTEL Courses for UG Programme
    - noc25-cs92 - Reinforcement Learning
    - noc25-cs97 - Getting Started with Competitive Programming
    - noc25-cs113 - Software Testing
    - noc25-cs116 - Cyber Security and Privacy
    - noc25-cs117 - Privacy and Security in Online social media
    - noc25-cs118 - Responsible & Safe AI Systems
    - noc25-cs120 - Practical Cyber Security for Cyber Security Practitioners
    - noc25-cs144 - Programming in Modern C++
    - noc25-cs146 - Introduction to Industry 4.0 and Industrial Internet of Things
    - noc25-cs161 - Introduction to Large Language Models (LLMs)
    - noc25-mg88 - Business Analytics & Text Mining Modeling using Python
    - noc25-mg125 - Data Analysis & Decision Making - II
    - noc25-mg154 - Advanced R Programming for Data Analytics in Business
    - noc25-ge70 - Learning Analytics Tools

Mr. G. Pandiya Rajan, Chairperson, CSE (Artificial Intelligence and Machine Learning) moved the following items based on the decision of the Board of Studies in CSE (Artificial Intelligence and Machine Learning).

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

   RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

   B.E. CSE (Artificial Intelligence and Machine Learning)– Curriculum and Syllabus

b. TO CONSIDER AND APPROVE THE BOARD'S RECOMMENDATIONS PERTAINING TO REGULATIONS 2021 FOR UG PROGRAMME

   RESOLVED TO APPROVE

   1. Inclusion of the following Industry offered One Credit Courses under Regulations 2021- UG Programme
       - U21OAM11 - Building Intelligent Agents with Generative AI
       - U21OAM12 - LangChain for LLM Applications

2. Inclusion of the following Value-Added Courses under Regulations 2021- UG Programme
    - U21VAM08 - Explainable AI (XAI) for Ethical AI Applications
    - U21VAM09 - Prompt Engineering for Generative AI
    - U21VAM10 - Advanced Vision using YOLO and Object Tracking

3. Inclusion of the following NPTEL Courses for UG Programme
    - noc25-cs87 - Foundations of Virtual Reality
    - noc25-cs116 - Statistical Learning for Reliability Analysis
    - noc25-cs139 - Cyber Security and Privacy
4. The inclusion of the following Open Elective Course under Regulations 2021 for B.E./B.Tech. Programme
    - U21AMX05 - Digital Transformation using AI

Dr. R. Devi Priya, Chairperson, Chairperson, Computer Science and Engineering (Cyber Security) moved the following items based on the decision of the Board of Studies in Chairperson, Computer Science and Engineering (Cyber Security).

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

   RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

   B.E. Computer Science and Engineering (Cyber Security) – Curriculum and Syllabus

Dr. M. Kathirvelu, Chairperson, Electronics and Communication Engineering moved the following items based on the decision of the Board of Studies in Electronics and Communication Engineering.

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

   RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

   B.E. Electronics and Communication Engineering – Curriculum and Syllabus

b. TO CONSIDER AND APPROVE THE BOARD'S RECOMMENDATIONS PERTAINING TO REGULATIONS 2021 FOR UG PROGRAMME

   RESOLVED TO APPROVE

1. Inclusion of the following MOOC Course under Regulations 2021- UG Programme
    - U21MEC19 - Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System

2. Inclusion of the following industry offered One Credit Courses under Regulations 2021- UG Programme
    - U21OEC14 - YOLO for Industrial Automation: Modern Computer Vision in Action
    - U21OEC15 - Automated Testing in Python with Pytest
    - U21OEC16 - Remote Sensing and Digital Image Analysis
    - U21OEC17 - ASIC Flow using Physical Design Tools

3. Inclusion of the following Value-Added Courses under Regulations 2021- UG Programme
    - U21VEC08 - Semiconductor device fabrication and characterization using modern tools
    - U21VEC09 - Exploring Cadence: Fundamentals of Electronic Design Automation
    - U21VEC11 – Industrial automation with MQTT
    - U21VEC12 – Line Follower Robot
    - U21VEC13 – Water Rocket Design
    - U21VEC14 - RF Module Controlled Car

4. Inclusion of the following NPTEL Courses for UG Programme
    - noc25-cs87 - Foundations of Virtual Reality
    - noc25-cs143 - Computer Vision
    - noc25-ee94 - Introduction to Photonics
    - noc25-ee96 - Fundamentals of Nano and Quantum Photonics
    - noc25-ee127 - Pattern Recognition and Application
    - noc25-ee129 - Principles and Techniques of Modern Radar Systems
    - noc25-bt86 - Fundamentals of Micro and Nanofabrication
    - noc25-ee175 - Cryogenic Electronics for Quantum Computing
    - noc25-ee177 - Microsensors and Nanosensors
    - noc25-ee182 - Photonic Crystals: Fundamentals & Applications
    - noc25-de24 - Geographic Information System

Dr. K. Mohana Sundaram, Chairperson, Electrical and Electronics Engineering moved the following items based on the decision of the Board of Studies in Electrical and Electronics Engineering.

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

   RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

   B.E. Electrical and Electronics Engineering – Curriculum and Syllabus

b. TO CONSIDER AND APPROVE THE BOARD'S RECOMMENDATIONS PERTAINING TO REGULATIONS 2021 FOR UG PROGRAMME

   RESOLVED TO APPROVE

1. Inclusion of the following Capsule Courses under Regulations 2021- UG Programme
    - U21CPG09 - Energy Efficiency in Electrical Utilities
    - U21CPG10 - Harmony in Nature and Society
    - U21CPG11 - Data Science for Electrical and Electronics Engineers
2. Inclusion of the following Capsule Courses under Regulations 2021- UG Programme
    - U21VEE06 - Electrical Cyber Physical Systems
    - U21VEE07 - Sustainability and Climate Change
    - U21VEE08 - Gen AI for Electrical Engineers

Dr. S. Muthulakshmi, Chairperson, Information Technology moved the following items based on the decision of the Board of Studies in Information Technology.

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

B.Tech. Information Technology – Curriculum and Syllabus

Dr. S. Ramesh Babu, Chairperson, Mechanical Engineering moved the following items based on the decision of the Board of Studies in Mechanical Engineering.

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

B.E. Mechanical Engineering – Curriculum and Syllabus

Dr. R. Kiruba Shankar, Chairperson, Mechatronics Engineering moved the following items based on the decision of the Board of Studies in Mechatronics Engineering.

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

B.E. Mechatronics Engineering – Curriculum and Syllabus

b. TO CONSIDER AND APPROVE THE BOARD'S RECOMMENDATIONS PERTAINING TO REGULATIONS 2021 FOR UG PROGRAMME

RESOLVED TO APPROVE

1. Inclusion of the following NPTEL Courses for UG Programme

- noc25-ae20 Introduction to Aircraft Design
- noc25-ae30 Drone Systems and Control
- noc25-cs136 Mathematical Foundations for Machine Learning
- noc25-ee134 Charging Infrastructure
- noc25-ee163 Electronic Systems Design: Hands-on Circuits and PCB Design with CAD Software
- noc25-ee181 Machine Learning and Deep Learning - Fundamentals and Applications
- noc25-ee14 Design of Electric Motor
- noc25-me130 Practical Cyber Security for Cyber Security Practitioners
- noc25-me151 Fundamentals of Additive Manufacturing Technologies
- noc25-me182 Engineering Thermodynamics
- noc25-bt49 Biomedical Instrumentation
- noc25-ae32 Introduction to CFD
- noc25-ge77 Machine Learning for Core Engineering Disciplines
- noc25-cs143 Computer Vision
- 8 Week Courses
- noc25-cs137 Programming with Generative AI
- noc25-ee98 Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink
- noc25-me164 Mechanism and Robot Kinematics
- noc25-hs213 Entrepreneurship and IP Strategy
- noc25-ge66 Research Methodology
- noc25-ee98 Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink
- 4 Week Courses
- noc25-cs80 Mobile Virtual Reality and Artificial Intelligence
- noc25-de18 Innovation by Design
- noc25-hs117 Patent Drafting for Beginners
- noc25-me121 Product Design and Development

2. Inclusion of the following One-Credit Courses under Regulations 2021- UG Programme
   - U21OMI04- MATLAB Proficiency & Visualization
   - U21OMI05 - Model-Based Design with AI
   -
3. Inclusion of the following Capsule Courses under Regulations 2021- UG Programme
   - U21CPG33- Fundamentals of Machine Learning using PYTHON and MATLAB
   - U21CPG34 - Generative AI for Professionals

Dr. R. Devi Priya, Chairperson, Computer Science and Engineering moved the following items based on the decision of the Board of Studies in Computer Science and Engineering – M.Tech Data Sciences.

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF I AND II SEMESTERS OF UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2025

RESOLVED TO APPROVE the Curriculum and syllabus of I and II semesters of UG degree programme to be offered under R-2025.

M.Tech Data Sciences – Curriculum and Syllabus

Ms. S. Dhivya, Chairperson, Master of Business Administration moved the following items based on the decision of the Board of Studies in Master of Business Administration.

a. TO CONSIDER AND APPROVE THE CURRICULUM AND SYLLABUS OF III AND IV SEMESTERS OF MBA PROGRAMME TO BE OFFERED UNDER R-2024

RESOLVED TO APPROVE the Curriculum and syllabus of III and IV semesters of UG degree programme to be offered under R-2024.

MBA – Syllabus

b. TO CONSIDER AND APPROVE THE ELECTIVE COURSES FOR THE MBA PROGRAMME TO BE OFFERED UNDER R-2024

RESOLVED TO APPROVE the elective courses for the MBA degree programme to be offered under R-2024

MBA - Elective Courses

Dr. K. Karthikeyan, Programme Lead (Freshmen) moved the following items based on the decision of the Board of Studies in Science & Humanities.

a. TO CONSIDER AND APPROVE THE FOLLOWING COURSES TO BE OFFERED UNDER R-2025 for UG programme

RESOLVED TO APPROVE

- *I Year BE / B.Tech - Basic Science Courses (BSC)*
- *I Year BE / B.Tech - Humanities and Social Sciences including Management Courses (HSMC)*
- *I Year BE / B.Tech - Tamil Courses*
- *I Year BE / B.Tech - Universal Human Value Courses*

b. TO CONSIDER AND APPROVE THE COURSES TO BE OFFERED UNDER R-2023 for PG M.Tech – data Sciences programme

RESOLVED TO APPROVE the I Year M.Tech Data Sciences - Foundation Courses (FC)

c. TO CONSIDER AND APPROVE THE FOLLOWING COURSES TO BE OFFERED UNDER R-2025

RESOLVED TO APPROVE

1. The inclusion of the following Capsule Courses under Regulations 2025 for B.E./B.Tech. Programme

- U25CPG01 Micro lessons to build fluency
- U25CPG02 Ace interviews with smart language and strategies

2. The inclusion of the following Foreign Language Courses under Regulations 2025 for B.E./B.Tech. Programme

- U25LEG01 Deutsch Für Ingenieure - German I
- U25LEG02 Nihongo For Engineers - Japanese I
- U25LEG03 Français Pour Les Ingénieurs - French I
- U25LEG04 Hindi For Engineers - Hindi I
- U25LEG05 Deutsch Für Ingenieure - German II
- U25LEG06 Nihongo For Engineers - Japanese II
- U25LEG07 Français Pour Les Ingénieurs - French II
- U25LEG08 Hindi For Engineers - Hindi II

3. The inclusion of the following Value-Added Courses under Regulations 2025 for B.E./B.Tech. Programme

- U25VEN01 Effective Public Speaking & Presentation Skills
- U25VEN02 Advanced Vocabulary and Grammar for Engineers
- U25VEN03 Etymology
- U25VEN04 Emotional Intelligence
- U25VEN05 Strategic Communication: Public Speaking and Presenting with Impact
- U25VEN06 Phono Lingo: Precision in Pronunciation and Expressive English

d. TO CONSIDER AND APPROVE THE BOARD'S RECOMMENDATIONS PERTAINING TO REGULATIONS 2021 FOR UG PROGRAMME

RESOLVED TO APPROVE

1. The inclusion of the following Open Elective Courses under Regulations 2021 for B.E./B.Tech. Programme
   - U21CYX05 Waste Management and Resource Recovery
   - U21CYX06 Chemical Aspects of Food Adulteration
   - U21FLX01 Essential Japanese for Engineers
   - U21FLX01 Essential Japanese for Engineers

- U21FLX02 Essential Hindi for Engineers
- U21FLX02 Essential Hindi for Engineers
- U21FLX03 Essential German for Engineers
- U21FLX03 Essential German for Engineers

2. The inclusion of the following Value-Added Course under Regulations 2021 for B.E./B.Tech. Programme

- U21VFL07 Foundational Hindi for Engineers
- U21VFL08 Foundational Japanese for Engineers
- U21VFL09 Foundational German for Engineers

4. To formulate regulations governing the admission of students into various programmes of study.

Admission for UG, PG and MBA programmes for the academic year 2025-2026 is currently in progress. Members were informed that category-wise admission details will be presented in the next meeting.

5. To formulate regulations for sports, extra-curricular activities and ensure proper maintenance and functioning of the playgrounds and hostels.

Members of the council reviewed and appreciated the achievements of students in sports, co-curricular, and extra-curricular activities.

6. To recommend proposals for the introduction of new programmes of study to the Governing Body

It was informed to the members that approval has been received from AICTE for an increase in intake for the following existing programmes and the introduction of two new courses as detailed below:

Increase in Intake

1. B.E. - Computer Science and Engineering: From 240 to 300
2. B.E. - Computer Science and Engineering (Artificial Intelligence and Machine Learning): From 60 to 120
3. B.E. - Electronics and Communication Engineering: From 180 to 240
4. B.Tech. - Information Technology: From 120 to 180
5. B.Tech. - Artificial Intelligence and Data Science: From 120 to 180

New Programmes

1. B.E. - Computer Science and Engineering (Cyber Security): Intake of 60
2. M.Tech. - Data Sciences: Intake of 18

7. To propose to the Governing Body the establishment of scholarships, studentships, fellowships, prizes and medals, and to frame regulations for the award of the same.

The details of scholarships offered by the institute, in addition to those provided by the government for the academic year 2024-2025, were presented. Members of the council reviewed and took note of the same.

8. Any other matters

- Dr. P. Sathiya suggested the inclusion of "On Duty" status within the attendance criteria.
- Dr. P. Sathiya enquired about the approving authority for self-study courses and Principal clarified that such courses would be approved by the Board of Studies (BoS).
- Dr. V. Manikandan sought clarification regarding the duration of internships, clarified by the Principal.
- Dr. P. Sathiya recommended that the phrase "life-long support" be rephrased as "career support".
- Members proposed the award of credits for Tamil language courses offered to international students.
- Dr. V. Manikandan raised a query regarding the teaching methodology for lab components in mathematics-related courses. The Head of the Department of Mathematics responded that these components would be conducted in the lab using MATLAB. It was further suggested to include a lab component in the Data Science course
- Dr. V. Manikandan and Dr. P. Sathiya enquired about the course content of Physics and Chemistry for Semesters I and II. The respective Heads of Departments provided explanations, and members emphasized the need to review and verify the course titles.
- Dr. P. Sathiya questioned the relevance of offering Basics of Civil Engineering and Mechanical Engineering to students in the CSE cluster. The Principal addressed the concern and provided justification.
- It was suggested to introduce lab components in the core and professional elective courses of the MBA programme wherever feasible.
- Dr. P. Sathiya enquired about the possibility of securing sponsorships for student participation in Hackathons.
- Members proposed the introduction of a merit-based scholarship category specifically for girl students.
- It was suggested to encourage student participation in Hackathons, as such involvement enhances placement readiness.
- Members emphasized the need for a dedicated facility to support faculty capacity building initiatives.
- Dr. Vijay Natarajan enquired about the implementation plan for the Academic Bank of Credits (ABC) and credit transfer mechanisms. The principal provided the necessary clarifications.
- Mr. R. Balasubramaniam sought details regarding the implementation of Mandatory Credit Courses (MCC) in Semesters I and II, specifically their delivery through block teaching.

- Members enquired about the student well-being system, including whether a dashboard is available to monitor student welfare.
- Mr. S. Parthasarathy from the MBA department raised queries related to the use of case study-based pedagogy, the capstone simulation project, and the summer internship. The Director of the MBA programme provided detailed responses.
- A suggestion was made to collaborate with professional bodies for offering certification courses under the MBA programme. The Principal informed that two tie-ups are already in place, including one with NISM.
- Alumni members expressed appreciation for the ongoing curriculum transformation, particularly the introduction of biology courses for non-biology students and the domain orientation course.

Finally, Dr. A. Balamurugan, Head of the Centre for Academic Courses, expressed gratitude to all members for their active participation, insightful discussions and valuable suggestions. With this, the meeting was formally concluded.

Prepared by

Dr. A. Balamurugan, Member Secretory

Reviewed By

Dr. D Saravanan, Chairman