KPR Institute of Engineering and Technology (Autonomous)

KPRIET
Learn Beyond

10th ACADEMIC COUNCIL

MINUTES OF THE MEETING

Venue: The Legend, Imperial Hall, KPRIET (Hybrid Mode)
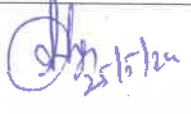
Date: 25 May 2024

Time: 10.30 am

Meeting ID: https://zoom.us/j/92411260441?pwd=RkcrQVE5M1FFNzhxTUlvS0RDZ3pxZz09
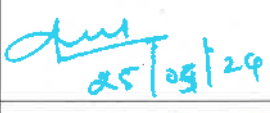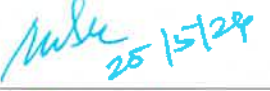
Members Present:

S. No	Name of the member	Category	Signature
1.	Dr. D. Saravanan, Principal	Chairman	_(signed) 25/5/24_
2.	Dr. V. Manikandan Professor, Department of EEE Coimbatore Institute of Technology Coimbatore	Anna University Nominee	_(signed) 25/5/24_
3.	Dr. P. Sathiya Professor, Department of Production Engineering, National Institute of Technology Trichy	Anna University Nominee	_(signed) 25/5/24_
4.	Dr. C. Santhi Professor and Head Department of Electronics and Communication Engineering Government College of Technology Coimbatore	Anna University Nominee	_(signed) 25/5/24_
5.	Dr. P. Ramkumar Associate Professor Department of Mechanical Engineering, IIT Madras Chennai	Academic Expert	ONLINE
6.	Dr. Vijay Natarajan Department of Computer Science and Automation Indian Institute of Science Bangalore	Academic Expert	ONLINE
7.	Mr. R. Balasubramanian Advisor, Lead SME – Civil Engg. College Connect, L&T EduTech Chennai	Industry Expert	ONLINE.

8.	Dr. Arun Kumar Kaushik Associate Dean for Academic Affairs and Professor of Economics O.P. Jindal Global University Private university in Sonipat Haryana.	Economist	
9.	Dr. A. M. Natarajan Chief executive	Management Representative	
10.	Dr. S. V. Sudha Professor & HoD Artificial Intelligence and Data Science	Member	
11.	Dr. D. Ganeshkumar 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.	Dr. R. Devipriya Professor & HoD 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.	Dr. T. Sivakumar Associate Professor & HoD Information Technology	Member	
20.	Dr. S. Ramesh Babu Professor & HoD Mechanical Engineering	Member	
21.	Dr. R. Kiruba Shankar Professor & HoD Mechatronics Engineering	Member	

22.	Dr. M. Hema Associate Professor & HoD Science & Humanities	Member	
23.	Dr. K. Karthikeyan Professor & HoD Mathematics	Member	
24.	Dr. S.Ananth Professor & HoD Physics	Member	
25.	Dr. M.S. Karthikeyan Professor & HoD Chemistry	Member	
26.	Dr. T. Jayasudha Assistant Professor (Sl.G) & HoD English	Member	
27.	Dr. R. Maheswar Director, CFRD	Senior Faculty	
28.	Dr. B. Thamaraikannan Director Career Development Centre	Senior Faculty	
29.	Dr. R. Manjula devi Head, IQAC	Senior Faculty	
30.	Dr. D. Venugopal Professor Electronics and Communication Engineering	Senior Faculty	
31.	Dr. P. Narayanasamy Professor Electrical and Electronics Engineering	Controller of Examinations	
32	Dr. A. Balamurugan Director Centre for Academic Courses	Member Secretary	

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 10th Academic Council Meeting held on 25.05.2024:

Welcome address was delivered by the Chairman of Academic Council and outlined the various agenda points to be presented in the meeting.

The Chairman of Academic Council requested the Director, Centre for Academic Courses to move the following agenda items.

1. Institute's accomplishments and facilities

The Director, Centre for Academic Courses presented the Institute's accomplishments and available facilities. The key topics discussed during the meeting include:

- Vision and Mission of the Institute
- Staff and Students details
- Scholarship details
- Students' performance
    - Placement details
    - Higher Studies
- Research and Development
- Notable achievements
- Foreign University collaborations
- Higher studies
- Faculty participation in FDP / STTP

2. Confirmation of the minutes of 9th Academic Council Meeting:

The Academic council members confirmed the minutes of 9th academic council meeting held on 05.01.2024.

3. Action taken on the minutes of the 9th Academic Council Meeting:

The minutes of the 9th Academic Council Meeting and the action taken thereon were approved.

S. No.	Minutes of 9th ACM	Action taken
1.	Suggested to provide outcomes of collaborations with foreign universities	Presented
2.	Suggested to include QS ranking of foreign universities where the students shall pursue their higher studies	Presented
3.	Suggested to include details of faculty members attending FDP and STTP	Presented

4. Amendments in Regulations 2021 (UG Programme)

The Director, Centre for Academic Courses presented the following amendments in Regulations 2021.

4.1. Amendments in Clause 15.2.4 Honours and Minor degree:

Existing:

For the category B.E. / B. Tech. Honours (Specialization in the same discipline) and B.E. / B. Tech. Honours, the students will be permitted to register the courses from **5th semester onwards** provided the marks earned by the students until 3rd semester should be of CGPA 7.50 and above and cleared all the courses in the first attempt.

For the category B.E. / B. Tech. (Minor in other specialization), the students will be permitted to register the courses from **5th semester onwards** provided the marks earned by the students until 3rd semester should be of CGPA 7.50 and above.

Amended:

For the category B.E. / B. Tech. Honours (Specialization in the same discipline) and B.E. / B. Tech. Honours, the students will be permitted to register the courses from **3rd semester onwards** provided the students continue to maintain a CGPA of 7.50 and above throughout their course of study and clear all the courses in the first attempt.

For the category B.E. / B. Tech. (Minor in other specialization), the students will be permitted to register the courses from **3rd semester onwards** provided students continue to maintain a CGPA of 7.50 and above throughout their course of study.

4.2. Addition in Clause 4.1: (Micro Specialization)

Students may optionally undergo Micro Specialization. The students should have earned a minimum of 12 credits additionally in any one of the following verticals from 3rd semester. Upon Successful completion of the courses, it will be indicated in the semester grade sheet and in the consolidated grade sheet. In this 10th Academic Council Meeting, following Specialisations were proposed.

Vertical I : Motors for Engineering Applications

Vertical II : Water and Water Treatment

Vertical III : Long Term English

4.3. Addition in Clause 4.1: Capsule Courses - Non-Mandatory Non-Credit Courses:

Students may optionally undergo Capsule Courses (6 – 8 hours). Upon completion of the course, it will be indicated in the semester grade sheet and in the consolidated grade sheet.

1. Blog Writing
2. Story Telling for Image Building

4.4. Addition in Clause 11.9: Credits for National / International Professional Certifications:

Students may optionally undergo National/International professional certification courses, and if a student successfully completes the course, 1 / 2 / 3 credits may be allotted with prior approval from the Head of the Institution and the Centre for Academic Courses. If the student earns three credits, the student may drop one Professional Elective.

Otherwise, the credits earned by the student will be indicated in the semester grade sheet and in the consolidated grade sheet as additional credits. These additional credits will not be considered for GPA/CGPA calculations.

Members of the council reviewed and approved the above amendments under Regulations 2021. They also suggested conducting a series of awareness and counseling sessions about the significance and flexibility of Honours and Minor degrees, and Micro specializations, for the students.

5. 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	09	11.05.2024
2	Biomedical Engineering	10	09.05.2024
3	Chemical Engineering	10	10.05.2024
4	Civil Engineering	11	10.05.2024
5	Computer Science and Engineering	11	11.05.2024
6	Computer Science and Engineering (AI & ML)	05	11.05.2024
7	Computer Science and Business Systems	05	11.05.2024
8	Electronics and Communication Engineering	11	08.05.2024
9	Electrical and Electronics Engineering	10	09.05.2024
10	Information Technology	05	11.05.2024
11	Mechanical Engineering	11	08.05.2024
12	Mechatronics Engineering	05	11.05.2024
13	Science and Humanities	10	10.05.2024

The 10th Standing Committee Meeting was held on 17.05.2024 at The Legend. The Standing Committee reviewed the recommendations of the above Bboards 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. S. V. Sudha, Chairperson, Artificial Intelligence and Data Science moved the following items recommended by the Board of Studies of Artificial Intelligence and Data Science.

1. The inclusion of Industry offered one credit course U21OAD06 - Building Dashboards using Streamlit under Regulations 2021.

2. The inclusion of following value-added courses under Regulations 2021
    1. U21VAD01 - Data Visualization using PowerBI and Tableau
    2. U21VAD02 - Fundamentals of DevOps

Dr. D. Ganesh Kumar, Chairperson, Biomedical Engineering moved the following items recommended by the Board of Studies of Biomedical Engineering:

1. The inclusion of new Professional Elective vertical VI - Medical Systems with the following courses under Regulations 2021.
    1. U21BMP41 - Ophthalmology Systems
    2. U21BMP42 - Pulmonology Systems
    3. U21BMP43 - Gynaecology and Obstetrics Systems
    4. U21BMP44 - Neurology Systems
    5. U21BMP45 - Orthopedics Systems
    6. U21BMP46 - Urologic and Nephralgic Systems
    7. U21BMP47 - Chemotherapy Techniques
    8. U21BMP48 - Pediatric Systems
2. The inclusion of following Industry offered one credit course under Regulations 2021
    1. U21OBM03 - Medical Coding
    2. U21OBM04 - Design and Implementation of Biomedical Circuits

Dr. S. Balasubramanian, Chairperson, Chemical Engineering moved the following items recommended by the Board of Studies of Chemical Engineering:

1. The inclusion of following value-added courses under Regulations 2021
    1. U21VCH04 - Biofertilizers
    2. U21VCH05 - Material Surface Characterization
    3. U21VCH06 - Petroleum and Gas Processing
    4. U21VCH07 - Safety Aspects of Petroleum Product Testing

Dr. G. Anusha, Chairperson, Civil Engineering moved the following items recommended by the Board of Studies of Civil Engineering:

1. The inclusion of new Professional Elective vertical VII - Infrastructure Engineering with the following courses under Regulations 2021.
    1. U21OCE11 - Basics of Urban and Rural Infrastructure – Pre-Requisite course for other programmes
    2. U21CEP42 - Infrastructure Planning and Engineering

3. U21CEP43 - Infrastructure Financing
4. U21CEP44 - Project Management for Infrastructure Development
5. U21CEP45 - Remote Sensing and GIS for Infrastructure planning
6. U21CEP46 - EIA for Infrastructure Projects
7. U21CEP47 - Mini Project

2. The inclusion of Micro Specialization in Water and Water Treatment with the following courses under Regulations 2021.
   1. U21MCG01 - Sustainable Water Management: Principles and Practices
   2. U21MCG02 - Water Treatment Essentials: Principles and Practices
   3. U21MCG03 - Plumbing – Theory and Practice
   4. U21MCG04 - Experiential Project

3. The inclusion of industry offered One Credit Course U21OCE10 - Architecture and Visualization for UG Programme under Regulations 2021.

4. The inclusion of Value-Added Course U21VCE05 - Estimating and Costing using Estima Software for UG Programme under Regulations 2021.

Dr. R. Devipriya, Chairperson, Computer Science and Engineering moved the following item recommended by the Board of Studies of Computer Science and Engineering:

1. The inclusion of a course U21OCS05 - Data Engineering with Pyspark to the list of industry offered One Credit Courses under Regulations 2021.

Dr. R. Devipriya, Chairperson, Computer Science and Engineering (AI&ML) moved the following items recommended by the Board of Studies of Computer Science and Engineering (AI&ML):

1. The inclusion of industry offered One Credit Courses U21OAM03 - Ethical Hacking Tools and Techniques and U21OAM04 - Chatbot Development (Text and voice AI) under Regulations 2021.
2. The inclusion of Value-Added Courses U21VAM02 - Frontend and Backend Frameworks and U21VAM03 - AR/VR Industry Trends and Future Directions under Regulations 2021.

Dr. A. Bazila Banu, Chairperson, Computer Science and Business Systems moved the following recommended by the Board of Studies of Computer Science and Business System:

1. The inclusion of industry offered One Credit Courses U21OCB04 - Google Firebase and MIT based IoT Applications and U21OCB05 - Docker on Linux under Regulations R2021.
2. The inclusion of Value - Added Courses U21VCB02 - Cloud Computing and U21VCB03 - Mobile App Development under Regulations R2021.

Dr. M. Kathirvelu, Chairperson, Electronics and Communication Engineering moved the following items recommended by the Board of Studies of Electronics and Communication Engineering:

1. The inclusion of the following pre-requisite courses under Professional Elective verticals for the students opting for Minor Degree from other B.E. / B.Tech Programmes under regulations 2021 from the Academic year 2024-2025

1. Vertical 1: VLSI Design
   o U21ECP49 – Introduction to VLSI Design
2. Vertical 3: Sensor Technologies and IoT
   o U21ECP50 - Embedded Controllers
   o U21ECP51 - Introduction to Internet of Things
2. The inclusion of the following professional electives for PG programme under Regulations 2023 from academic year 2024-2025.
   1. P23VLP21 - RFIC Design
   2. P23VLP22 - Physical VLSI Design
   3. P23VLP22 - Nanoscale Devices and Circuit Design

Dr. K. Mohanasundaram, Chairperson, Electrical and Electronics Engineering moved the following items recommended by the Board of Studies of Electrical and Electronics Engineering:

1. The inclusion of U21EE702 – Electrical Applications Laboratory in semester VII in lieu of U21EE702 - Special Laboratory under Regulations 2021.
2. The inclusion of the following courses as open electives under Regulations 2021:
   1. U21EEX06 - Solar PV system; Installation and Maintenance
   2. U21EEX07 - Optimization Techniques for Engineering Applications
3. The inclusion of Micro Specialization in Motors for Engineering Applications with the following courses under Regulations 2021.
   1. U21MCG09 - Fundamentals of Electric Motors
   2. U21MCG10 - Basics of Motors Design
   3. U21MCG11 - Advanced Electric Motors
   4. U21MCG12 - Motor Controllers for Engineering Applications
4. The inclusion of Value - Added Course U21VEE04 - Home Automation and Simulation Software for Electrical Engineers for UG Programme under Regulations 2021.
5. The inclusion of following Industry offered one credit course under Regulations 2021
   1. U21OEE07 - Electrical System Design for Buildings
   2. U21OEE08 - Introduction to PLC for Electric Drives
6. The inclusion of Ph.D Course work course: P23EEP05 - Energy Forecasting, Modeling and Project Management

Dr. T. Sivakumar, Chairperson, Information Technology moved the following items recommended by the Board of Studies of Information Technology:

1. The inclusion of industry offered One Credit Courses U21OIT03 - Bigdata Analytics and U21OIT04 - Programming for Data Analytics under Regulations 2021.
2. The inclusion of Value - Added Courses U21VIT03 - Statistics for Data Science and "U21VIT04 - Social Media Security" under Regulations 2021

Dr. S. Ramesh Babu, Chairperson, Mechanical Engineering moved the following items recommended by the Board of Studies of Mechanical Engineering:

1. The inclusion of following Industry offered one credit courses for UG Programme under Regulations 2021
   1. U21OME13 - Introduction to Robotic Welding
   2. U21OME14 - Robot Programming
   3. U21OME15 - Non-Destructive Testing
2. The inclusion of following Valu - Added courses for UG Programme under Regulations 2021
   1. U21VME11 - Multi-body Dynamics Analysis using ADAMS
   2. U21VME12 - Design of Experiments using Minitab
   3. U21VME13 - Plant Layout using Tecnomatix

Dr. R. Kiruba Shankar, Chairperson, Mechatronics Engineering moved the following items recommended by the Board of Studies of Mechatronics Engineering.

1. The change of Professional Elective Vertical as mentioned below:

Vertical III : Smart Mobility Systems (**Existing**)	Vertical III : Automotive Engineering and Technology (*Revised*)
Vehicle Dynamics	Fundamentals of Automotive Engineering and Technology
Automotive Electronics	Automotive Electrical, Electronics and Control Systems
Automotive Mechatronic Systems	Automotive Thermal Management Systems
Smart Mobility and Intelligent Vehicle Systems	Vehicle Body Dynamics
Advanced Driver Assistance Systems	Autonomous Vehicle Systems
Automotive System Modelling and Simulation	Design Principles of Hybrid and Electric Vehicles
Automotive Fault Diagnostics	Energy Storage and Management for Electric Vehicles
Vehicle Maintenance and Repair	Automotive Fault Diagnostics

2. The inclusion of additional industry offered One Credit Courses under Regulations 2021
   1. U21OMI03 - Electric Mobility for Two-Wheelers
   2. U21OMI04 - Robot Streamlining Manufacturing Processes
   3. U21OMI05 - ROS for Absolute Beginners
   4. U21OMI06 - MATLAB Fundamentals
   5. U21OMI07 - MATLAB Programming Techniques

Dr. M. Hema, Chairperson, Science & Humanities moved the following items recommended by the Board of Studies of Science & Humanities.

1. The inclusion of U21PHX03 - Physics of Materials as Open Elective Course for the UG Programme for the IV semester under Regulations 2021
2. The inclusion of Micro Specialization in Long Term English with the following courses under Regulations 2021.
   1. U21MCG05 - Art of Interaction and Eloquence
   2. U21MCG06 - English for Competitive Exams
   3. U21MCG07 - English for Specific Purposes
   4. U21MCG08 - Pronunciation and Articulation
3. The inclusion of P23CYP08 - Applied Electrochemistry and Energy Devices course in PhD course work list under Regulations 2023.
4. The inclusion new vertical VI Mathematics and Statistics for Data Science and Modeling with the following courses under Institute level Minor Degree verticals for UG Programme under Regulations 2021
   1. U21MDG40 - Matrix Theory and Linear Algebra
   2. U21MDG41 - Probability Theory and Distributions
   3. U21MDG42 - Statistical Inference
   4. U21MDG43 - Regression Analysis
   5. U21MDG44 - Design and Analysis of Experiments
   6. U21MDG45 - Optimization Techniques

Dr. P. Umadevi, Assistant Professor and Assistant Controller of Examinations, presented the Draft Regulations 2024 and the curriculum for the Master of Business Administration program, which will be introduced from the academic year 2024-2025.

Members of the council reviewed and approved the recommendations of various boards.

8. Any other matters

1. Dr. P. Sathya inquired about the students not interested in placement, and the Chairman, Academic Council mentioned options for higher studies and entrepreneurship.
2. Dr. P. Sathya suggested to include the details of funded FDP and STTPs organized in the next ACM.
3. Dr. Arun Kumar Kaushik inquired about the types of consultancy services undertaken by the faculty members. The IIPC Head informed that most of the consultancy services are IT-based.
4. Dr. P. Sathya suggested to include details of professors under whom students are undertaking international internships.
5. Dr. C. Santhi inquired about the details of patents granted. The Director of CFRD informed that there are four design-based patents and four product-based patents have been granted.
6. Members of the council inquired about the commercialization of the granted patent, and the Chairman, Academic Council informed that steps will be taken in due course.
7. Dr. V. Manikandan inquired about the evaluation pattern, and the Controller of Examinations stated that the pattern set by Anna University is followed.

8. Members of the council suggested engaging professionals from outside to handle long-term English micro specialization courses.

9. Members of the council inquired about the faculty expertise to handle different institute-level minor degree courses / Micro specialization courses. The Chairman of the academic council informed them that visiting faculty members have been recruited to handle those courses, and expertise from our arts college can also be utilized if required.

10. Dr. P. Sathya inquired about the types of certifications, and the Chairman of the academic council informed that the certificates are offered by various registered professional bodies and industries such as CCNA certifications, ORACLE Certification, AutoDesk certifications, etc.

11. Dr. C. Santhi suggested to include courses related to Bio - Signal processing and analysis in Medical Systems Professional Elective Verticals for BME UG Programme and Dr. D. Ganeshkumar, Chairperson of BME, explained the related courses included in the core courses.

12. Dr. R. Balasubramanian suggested to include one or two courses in Artificial Intelligence and Machine learning in the Vertical VI - Mathematics and Statistics for Data Science and Modeling.

9. Closing Remarks by Chairman

Dr. D. Saravanan, Chairman of the Academic Council, informed the members about the new initiatives for the upcoming semesters:

1. The process for framing new Regulations 2025 has been started for the students of UG and PG programs admitted from the academic year 2025-2026.
2. Installation of supercomputers worth about 1.5 crores in association with IIT Palakkad.

Finally, Dr. A. Balamurugan, Director of the Centre for Academic Courses, thanked all the members for their fruitful discussion and valuable suggestions, and the meeting came to an end.

Prepared by 01.06.2024

Dr. A. Balamurugan, Member Secretory

Reviewed By

Dr. D Saravanan, Chairman