



MINUTES OF THE 40th ACADEMIC COUNCIL MEETING HELD AT 11.00 AM ON 28th FEBRUARY 2025 THROUGH ZOOM PLATFORM

Members Present:

1. Dr. G. Prince Arulraj, Vice Chancellor	- Chairperson
2. Dr. R. Elijah Blessing, Pro Vice Chancellor	- Member
3. Dr. S J Vijay, Registrar	- Ex-Officio Secretary
4. Mr. P.Jeyasingh, Former COO, Jasmin Info Tech., Chennai	- Member
5. Dr. C. Joseph Kennedy, Dean (SSAM)	- Member
6. Dr. Sajan Kurien, Dean (SAS)	- Member
7. Dr. J. Clement Sudhakar, Dean (KSM)	- Member
8. Dr. D. Nirmal, Associate Dean (ET)	- Member
9. Dr. B. Jefferson Raja Bose, CoE	- Member
10. Dr. D. Tensing, Director (QAA)	- Member
11. Dr. K R S Krishnan, Director (R&C)	- Member
12. Dr. L. Godson Asirvatham, Dy. Director (SPG)	- Member
13. Dr. S. Thomas George, Dy. Director (R&C)	- Member
14. Dr. Madhu Ganesh, Professor, Aero	- Member
15. Dr. N. Anand, HoD, Civil	- Member
16. Dr. D. Jude Hemanth, HoD, ECE	- Member
17. Dr. Kampa Ashirvadam, HoD, Aero	- Member
18. Dr. A. Brusly Solomon, HoD, Mech.	- Member
19. Dr. J. Immanuel Johnraja, HoD, CSE	- Member
20. Dr. E. Grace Mary Kanaga, HoD, DS&CS	- Member
21. Dr. D. Sujitha Juliet, HoD (AI&ML)	- Member
22. Dr. A. Immanuel Selvakumar, HOD/EEE	- Member
23. Dr. D. Pamela, HoD, Biomedical	- Member
24. Dr. P. Rajalakshmy, HoD, Robotics	- Member
25. Dr. Jibu Thomas, HoD, Biotechnology	- Member
26. Dr. Philip Sridhar, HoD, Agriculture	- Member
27. Mr. Dayanand Peter, HoDi/c, FPT	- Member
28. Dr. K. Parameswari, HoD, Physical Sciences	- Member
29. Dr. Shanthini Pandiaraj, HoD, Media	- Member
30. Dr. P. Ranjit Jeba Thangaiah, HoD, Digital Sciences	- Member
31. Dr. D. Mahila Vasanthi Thangam, HoD, Commerce & Int. Trade	- Member
32. Dr. B. Paulin, HoD (DoVE)	- Member
33. Mr. S.E. Vinod Ewards, Head (CTC)	- Member
34. Dr. K. Leo Dev Wins, Professor, Mechanical Engg.	- Member
35. Dr. M.S.P. Subathra, Professor Robotics Engg.	- Member
36. Dr. J. Anitha, Professor, ECE	- Member
37. Dr. D. Wilson, Professor, Agriculture	- Member
38. Dr. V.M.Berlin Grace, Professor, Biotechnology	- Member
39. Dr. R. Nandha Kumar, Physical Sciences	- Member
40. Dr. S. Salaja, Professor, CSE	- Member

41. Dr. M. Nesa Sudha, Professor, ECE	- Member
42. Dr. G. Jaspere Willsie Kathrine, Asso. Professor, CSE	- Member
43. Dr. K. Martina Rani, Asso. Professor, KSM	- Member
44. Dr. S. Immanuel Alex Pandian, Asso. Professor, ECE	- Member
45. Dr. R. Augustin, Asso. Professor, Agriculture	- Member
46. Dr. J. Anitha, Asso. Professor, CSE	- Member
47. Dr. Aldin Justin Sundararaj, Asst. Professor, Aero	- Member
48. Dr. H. Victor Du John, Asst. Professor, ECE	- Member
49. Dr. Wasiya Farzana, Asst. Professor, FPT	- Member
50. Dr. S. Mohanasundaram, Asst. Professor, RE & CBCS Coordinator	- Spl. Invitee
51. Dr. G. Shine Let, Asst. Professor, ECE & CBCS Coordinator	- Spl. Invitee

Absentees:

1. Dr. David Koilpillai, IIT, Chennai	- Member
2. Dr. G.L.Samuel, Professor IIT, Chennai	- Member
3. Mr. Newin Durai, Executive Vice President, LTIMindtree, Chennai	- Member
4. Mr. S.J.S. Selvinson, Sr. Vice President, Reliance Jio, Mumbai	- Member
5. Dr. Samuel Mathew, Prof & Head (Rtd), Aromatic & Medicinal Plant Research Station, Oddakkali, Kerala	- Member
6. Dr. D. Alice, Agricultural Sciences	- Member
7. Dr. L. D. Vijay Anand, Robotics Engg	- Member
8. Dr. G. Samuelraj Chrysolite, Biomedical Engg.	- Member

The meeting started with a prayer by Dr. D. Pamela, HoD, Biomedical Engineering.

Opening Remarks by the Vice Chancellor:

The Vice-Chancellor warmly welcomed the external experts and internal members to the 40th Academic Council meeting. In his address, he acknowledged and appreciated the dedicated participation of Dr. P. Jeyasingh, an eminent industrialist, for his consistent support. The Vice-Chancellor presented a brief significant development at KITS since the 39th Academic Council meeting.

In the presentation, he highlighted the following achievements of KITS:

- In the Times Higher Education (THE) world ranking 2024, the university maintained its position in the same band i.e., 1,201-1,500 band, in the subject rankings (Computer Science and Physical Science) advanced from 801-1,000 to 601-800 band and in the Interdisciplinary Ranking securing a position in the 351-400 band.
- In the QS Asia Ranking, the university moved up from 721-750 to 681-700 band.
- NBA Accreditation was granted for three M.Tech programs (VLSI Design, Biotechnology, and Computer Science) for a period of three years, while the result for the MBA is awaited.
- Training on “Outcome Based Competency Focused Curriculum” (OBCFC) alignment with NEP 2020 and updated NBA and UGC guidelines is conducted for the Deans, Heads, and senior faculty for curriculum development.
- It was reported that the research grants were increased from ₹4.88 crores to ₹8 crores, Scopus publications rose from 1,129 to 1,201 and Web of Science publications from 466 to 477. 38 patents were granted in 2024.
- The university hosted one national and two international conferences.
- Students excelled in various competitions, securing five major awards with cash prizes of ₹4 lakhs.

- To strengthen academia and Industry collaborations, a few MOUs were signed.

The Vice-Chancellor informed the members that 14 resolutions had to be passed in the Academic Council meeting. He then requested the Heads of Divisions to present the agenda points.

40.1 The following recommendations of the Head, Division of Civil Engineering were presented and approved:

40.1.1 List of new courses and syllabi (Civil Engineering) as given in pages 1.1 to 1.35.

The Head presented the syllabus of the 31 new courses for the 2024 Batch B.Tech Civil Engineering. Specialized elective courses that are domain-specific like Building Information Modeling (BIM), Non-Destructive Testing, Drone Surveying and Mapping, Environmental Audit, Pre-Engineered Building Design and Practice, and Wastewater Treatment System Design are introduced. Other courses that focus on emerging fields such as Geospatial Technology and BIM-related applications, ensuring students gain practical and industry-relevant skills, are also incorporated. Additionally, a Mini Design Project has been introduced in the seventh semester to provide students with hands-on experience.

40.2 The following recommendations of the Head, Division of Aerospace Engineering were presented and approved:

40.2.1 List of new courses and syllabi (Aerospace Engineering) as given in pages 2.1 to 2.3.

Two new courses were proposed. The Vibration and Acoustics course was revised to provide hands-on experiments as per the guidance from the industry experts, which includes two modules on vibration and four modules on acoustics, covering key topics such as cabin acoustics, in-flight noise reduction, and Indian acoustics. Also, changes have been made to the Computational Fluid Dynamics (CFD) laboratory course, requiring students to first use OpenFOAM to solve basic equations and perform calculations before conducting CFD analysis. This ensures a strong theoretical foundation and allows students to validate their calculations with CFD simulations, improving their analytical and practical skills.

40.3 The following recommendations of the Head, Division of Electronics and Communication Engineering were presented and approved:

40.3.1 Vision and Mission Statements of the Division of ECE as given on page 3.1.

40.3.2 PEOs and PSOs for B.Tech. (ECE) program as given on page 3.1.

40.3.3 List of New Courses and syllabi (Electronics and Communication Engineering) as given in pages 3.1 to 3.5.

40.3.4 Revised Course Outcomes for the approved Courses as given in pages 3.6 to 3.17.

The resolutions were proposed, aligning with the NEP 2020 and the revised NBA-SAR to prepare for the upcoming NBA committee visit for the B.Tech program. The vision statement has been revised which includes sustainability and the PEOs and PSOs with Bloom's Taxonomy. In the AI and AIML vertical, a course on Large Language Models incorporating hands-on training using Python has been introduced. For the VLSI vertical, an elective has been introduced, and for PhD scholars, a course on Quantum Circuit Design has been introduced, reflecting ongoing research in this field. Finally, the Course Outcomes (CO) for the current semester have been revised to ensure alignment with the guidelines of NBA on using relevant action verbs.

40.4 The following recommendations of the Head, Division of Electrical and Electronics Engineering were presented and approved.

40.4.1 List of New Courses and syllabi (Electrical and Electronics Engineering) as given in pages 4.1 to 4.50.

The head proposed the elective courses for the 2024 batch of students under six distinct verticals to provide specialized learning paths. Each vertical consists of six specialized courses that enable students to pursue in-depth knowledge in the domain or multiple domains. The last three verticals are interdisciplinary, which encourages collaboration with other divisions for broader learning opportunities.

40.5 The following recommendations of the Head, Division of Biomedical Engineering were presented and approved.

40.5.1 List of new courses and syllabi (Biomedical Engineering) as given in pages 5.1 to 5.7.

The existing courses, course objectives and course outcomes are revised to align with current academic and industry standards and the prescribed textbooks have been updated with recent editions. The Biochemistry course was revised to introduce new topics in the second module, while the Brain-Computer Interface course includes concepts related to mental imagery techniques in the third module. The expert suggested changing the course title from "Entrepreneurship to Biomedical Engineers" to "Entrepreneurship in Healthcare Industry" to provide a broader industry-focused perspective to the engineers.

40.6 The following recommendations of the Head, Division of Computer Science and Engineering were presented and approved.

40.6.1 List of new courses and syllabi (Computer Science and Engineering) as given in pages 6.1 to 6.4.

The head proposed the revision of three courses with the updated course objectives and course outcomes in alignment with NEP 2020 and the new SAR. Additionally, they are designed to support PhD students as part of their coursework.

40.7 The following recommendations of the Head, Division of Data Science and Cyber Security were presented and approved.

40.7.1 Revision in the Curriculum for B.Tech Computer Engineering 2022-23 Batch students as given in page 7.1.

40.7.2 Revision in the Curriculum for B.Tech Artificial Intelligence and Data Science 2022-23 Batch students as given in page 7.1

The curriculum for the 2022-23 batch B.Tech Computer Engineering and Artificial Intelligence and Data Science programs has been revised based on industry feedback.

40.8 The following recommendations from the School of Agricultural Sciences were presented and approved:

- 40.8.1 Restructured Curriculum for B.Sc. (Hons.) Agriculture program (According to ICAR 6th Deans Committee) as given on pages 8.1 to 8.4.
- 40.8.2 Curriculum for B.Sc. (Hons.) Agriculture – 2025-26 batch students as given in pages 8.4 to 8.8.
- 40.8.4 List of New Courses and syllabi (Agriculture) as given on pages 8.8 to 8.90.
- 40.8.5 List of New Courses and syllabi (Water Institute) as given in pages 8.91 to 8.93.

The Dean proposed the restructured curriculum for the B.Sc. (Hons.) Agriculture program in line with the recommendations of the ICAR 6th Deans' Committee, aligned with NEP 2020 and the National Higher Education Quality Framework. The revised structure includes foundation courses and skill enhancement courses in the first year, basic courses with additional skill enhancement in the second year, and advanced core subjects with practical applications in the third year. The fourth year now features a Student Ready program and the eighth semester comprising 20 credits includes Rural Agriculture Work Experience (RAWE) of 8 credits, two Experiential Learning Program (ELP) courses of a total of 8 credits and Industrial Attachment of 4 credits. This curriculum also includes 10 credits from Online courses (MOOC) and elective courses of 20 credits out of 182 credits. The new student orientation program has been introduced for the 2025-26 batch, along with expanded skill enhancement options.

The curriculum for the Water Institute has been structured to include two courses and a mini-project in the third semester, followed by a full semester project in the fourth semester.

- 40.9 The following recommendations of the Head, Division of Biotechnology were presented and approved:

- 40.9.1 Course Structure for B Tech (Hons.) Biotechnology with Specialization in Medical Biotechnology as given in page 9.1.

The head proposed the course structure for the Medical Biotechnology specialization for the B.Tech Biotechnology (Hons.) program with 18 credits. This includes two optional theory courses, a specialization laboratory course, a specialization project, an online course, and an industry certification.

- 40.10 The following recommendations of the Head, Division of Media were presented and approved:

- 40.10.1 Course Components and Curriculum for B.Sc (Hons.) Computer Science and Media Production 2024-25 Batch students onwards as given on pages 10.1 to 10.2.

The revised curriculum was proposed for the B.Sc (Hons.) Computer Science and Media Production 2024-25 Batch as per NEP 2020 with an additional 40 credits (seven courses and a research project) in their fourth year.

- 40.11 The following recommendations of the Head of the Division of Commerce and International Trade were presented and approved:

- 40.11.1 Curriculum for B. Com (Hons.) Professional Accounting & Financial Technology 2024-25 Batch students onwards as given in pages 11.1 to 11.3.

- 40.11.2 List of Revised Course and syllabus (Commerce and International Trade) as given on pages 11.3 to 11.4.

The revised curriculum was proposed for the B.Sc (Hons.) Professional Accounting and Financial Technology 2024-25 Batch as per NEP 2020. The head also proposed a revised course titled “Corporate Accounting (23BC2013)” to meet industry standards based on the recommendations of ACCA.

40.12 The following recommendations of the Head of the Division of Digital Sciences were presented and approved:

40.12.1 Curriculum for B. Sc. (Hons.) Information Security and Digital Forensics – 2024-25 Batch students onwards as given on pages 12.1 to 12.3.

The revised curriculum was proposed for the B.Sc (Hons.) Information Security and Digital Forensics 2024-25 Batch as per NEP 2020 with an additional 40 credits in their fourth year and will have the option to choose five elective courses in the seventh semester and two elective courses in the eighth semester, along with a research project.

40.13 The following recommendations of the Head, Division of Criminology and Forensic Science were presented and approved:

40.13.1 Curriculum for B.Sc. (Hons.) Forensic Science 2024-25 batch of students onwards as given on pages 13.1 to 13.3.

40.13.2 List of New Courses and syllabi (Criminology & Forensic Science) as given in pages 13.3 to 13.28.

The revised curriculum was proposed for the B.Sc (Hons.) Forensic Science 2024-25 Batch as per NEP 2020 with an additional 40 credits including seven courses and a fourth-year research project to enhance practical and analytical skills. Also, 11 new courses have been proposed for PhD in Criminology and Forensic Science program.

40.14 The following recommendations from the Karunya School of Management were presented and approved:

40.14.1 List of New Courses and syllabi (Management) as given in pages 14.1 to 14.4.

The Dean has proposed the revision of two courses, Talent Acquisition and E-Customer Relationship Management as integrated courses using Zoho cloud tools in marketing and HR. Recently the MoU was signed with Zoho, which provides the students a hands-on experience with 14 tools such as Zoho CRM, Zoho Recruit, Zoho People, and Zoho Worker Lead. Currently, they will be offered as electives for the final-year MBA batch in HR and marketing, with further phased integration planned for subsequent batches.

General Comments from Experts:

The external expert appreciated the institution's consistent efforts in sustaining and improving its ranking at both the national and international levels. The implementation and continuous refinement of an outcome-based competency-focused curriculum have also received positive recognition from him. The expert acknowledged ₹8 crore research funding as a commendable achievement. Also, he recognized the notable accomplishment in hackathons with five awards, which gave more emphasis to the placement process.

The expert also suggested grouping the electives and verticals under relevant subheadings to enhance clarity. This would help to distinguish between core electives and industry-oriented electives, in areas like Artificial Intelligence, Deep Learning, and Machine Learning. The institution's continuous advancement and commitment to enhancing educational standards have been commended and registered his appreciation for consistently taking initiatives to elevate the institution to the next level.

The Registrar presented the Action Taken Report on the proceedings of the 39th Academic Council meeting and proposed a Vote of Thanks, appreciating the Chair, members of the Academic Council, and the external experts for their valuable contribution to the overall development of the University.

The meeting concluded with a prayer by Dr. P. Rajalakshmy, HoD, Robotics Engineering.



(Dr. S. J. Vijay)
Registrar



(Dr. G. Prince Arulraj)
Vice Chancellor