Department of Computer Science and Engineering
KPR Institute of Engineering and Technology

KPRIET
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Date: 25-04-2026

15th Board of Studies (BoS) Meeting

Venue: MBA Board Room (Hybrid)

Meeting ID: https://meet.google.com/zud-tyys-upm

Date: 25.04.2026

Time: 10.00 AM – 11.00 AM

Agenda:

1. To pass the syllabi for the UG programme from Semester V to Semester VIII under Regulations 2025.
2. To pass the PE (Professional Elective) verticals and OE (Open Electives) for the UG programme under Regulations 2025.
3. Ratification, if any, in the Semester III and IV courses of the UG programme under Regulations 2025.
4. Additional credit courses to be offered for the UG programme under Regulations 2025.
5. To pass the curriculum and syllabi for the PG programme from Semester I to Semester IV under Regulations 2026.
6. Any other points with the permission of the Chair.

Members Present:

S.No	Name of the member with Designation	Category	Signature
1.	Dr. S. MIRUNA JOE AMALI Professor & Head Department of CSE, KPRIET	Chairman	25/4/2026

2.	Dr. J. C. Miraclin Joyce Pamila, Professor, Department of CSE, Government College of Technology Coimbatore	University Nominee	ONLINE
3.	Dr. P. Arun Raj Kumar, Associate Professor, Department of Computer Science and Engineering, National Institute of Technology – Calicut, Kozhikode, Kerala	Academic Expert	ONLINE
4.	Dr. V. Kavitha, Professor and Head Data Science and Business Systems SRM Institute of Science and Technology Kattankulathur, Chennai	Academic Expert	ONLINE
5.	Mr. Vijaysankar Kanagarajan, Director, INTELAIX Consulting Service Pvt. Limited, Bangalore	Industry Expert	
6.	Mr Shanjay KM Data Interchange and Development - Senior Analyst, Magna Automotive India Pvt Ltd, Bangalore.	Alumni	
7.	Dr. Balamurugan A Professor, CSE, KPRIET	Faculty Member	
8.	Dr. K. Vishnu Kumar Professor, CSE, KPRIET	Faculty Member	
9.	Dr. S. Manoj Kumar Professor, CSE, KPRIET	Faculty Member	
10.	Dr. R Manjula Devi Professor, CSE, KPRIET	Faculty Member	

11.	Dr. Nisha Soms Associate Professor, CSE, KPRIET	Faculty Member	
12.	Dr. Amitha I C Associate Professor, CSE, KPRIET	Faculty Member	
13.	Dr V Priya, Associate Professor, CSE, KPRIET	Faculty Member	
14.	Dr. T. Primya Assistant Professor III, CSE, KPRIET	Faculty Member	
15.	Dr. Vivekrabinson K Assistant Professor III, CSE, KPRIET	Faculty Member	
16.	Ms. Ambika M Assistant Professor III, CSE, KPRIET	Faculty Member	
17.	Mrs. Kiruthika J K Assistant Professor II, CSE, KPRIET	Faculty Member	
18.	Ms. B. Vishnupriya Assistant Professor II, CSE, KPRIET	Faculty Member	
19.	Ms K B Sri Sathya Assistant Professor II, CSE, KPRIET	Faculty Member	

Chairman-BoS/ CSE

Minutes of the 15th Board of Studies (BoS) Meeting – B.E CSE

The meeting commenced with a welcome address by the Chairperson, Dr. S. Miruna Joe Amali, Head of the Department, Computer Science and Engineering. She welcomed all the Board of Studies members and faculty members of the department.

The Chairperson presented the Vision, Mission, Program Outcomes (POs), Program Educational Objectives (PEOs), Program Specific Outcomes (PSOs), and the R2025 Curriculum Structure, along with the detailed syllabi for V to VIII Semesters, the List of Professional Elective

Agenda Discussed

1. Approval of V to VIII Semester Syllabi

The detailed syllabus for the following semesters was presented and discussed:

5th Semester

Sl. NO.	COURSE TITLE	COURSE TYPE*	CATEGORY	L	T	P	J	C
1	Compiler Design	T	PCC	3	1	0	0	4
2	Computational Intelligence and Machine Learning	T	PCC	3	0	0	0	3
3	Professional Elective – I	T	PEC	3	0	0	0	3
4	Professional Elective – II	T	PEC	3	0	0	0	3
5	Open Elective – II (IKS / Entrepreneurship & Innovation Courses)	T	OEC	3	0	0	0	3
6	Embedded Systems and Smart Devices	TwP	ESC	2	0	0	2	3
7	Computational Intelligence and Machine Learning Laboratory	L	PCC	0	0	4	0	2
Total				**17**	**1**	**4**	**2**	**21**
MANDATORY CREDIT COURSES (MCC - Non CGPA) / MANDATORY NON-CREDIT COURSES (MNC)								
8	Liberal Arts Courses	T	MNC	0	0	2	0	0
9	Management / Innovation / Research / Immersion programme / Advanced Language certification – Any one	T	MCC	1	0	0	0	1
10	DevOps Tools and Technologies	T	MCC	1	0	0	0	1

6th Semester

Sl. NO.S	COURSE TITLE	COURSE TYPE*	CATEGORY	L	T	P	J	C
1	Cryptography and Network Security	T	PCC	3	0	0	0	3
2	Professional Elective – III	T	PEC	3	0	0	0	3
3	Professional Elective – IV	T	PEC	3	0	0	0	3
4	Open Elective – III (IKS Courses for few Dept. / Entrepreneurship & Innovation Courses for few Dept.)	TwL	OEC	3	0	0	0	3
5	Web Frameworks	TwL	PCC	1	0	4	0	3
6	Object Oriented Software Engineering	TwP	PCC	3	0	0	2	4
7	Cryptography and Network Security Laboratory	L	PCC	0	0	4	0	2
	Total			16	0	8	2	21
MANDATORY CREDIT COURSES (MCC - Non CGPA) / MANDATORY NON-CREDIT COURSES (MNC)								
8	Value Based Education -1	T	MNC	1	0	0	0	0
9	Management / Innovation / Research / Immersion programme / Advanced Language certification – Any one	T	MCC	2	0	0	0	2
10	Computational Thinking for Problem Solving	T	MCC	0	0	1	0	2

7th Semester

Sl. NO.	COURSE TITLE	COURSE TYPE*	CATEGORY	L	T	P	J	C
1	Cloud Computing	T	PCC	3	0	0	0	3
2	High Performance Computing	T	PCC	3	0	0	0	3
3	Professional Elective – V	T	PEC	3	0	0	0	3
4	Professional Elective – VI	T	PEC	3	0	0	0	3
5	Open Elective – IV (Interdisciplinary Skills Development Courses)	T	OEC	2	0	2	0	3
6	Cloud Computing Laboratory	L	PCC	0	0	4	0	2
7	High Performance Computing lab	L	PCC	0	0	4	0	2

8	Project Work Phase – I	L	EEC	0	0	0	4	2
Total				**14**	**0**	**10**	**4**	**21**
MANDATORY CREDIT COURSES (MCC - Non CGPA) / MANDATORY NON-CREDIT COURSES (MNC)								
9	Value Based Education -2	T	MNC	1	0	0	0	0
10	Industrial Training / Internship *	T	MCC	0	0	0	0	2
11	Management / Innovation / Research / Immersion programme / Advanced Language certification – Any one	T	MCC	1	0	0	0	1

8th Semester

Sl. NO.	COURSE TITLE	COURSE TYPE*	CATEGORY	L	T	P	J	C
1	MOOC / Professional Certification	T	PCC					3
2	Project work Phase – II	T	EEC	0	0	0	16	10
			Total	**0**	**0**	**0**	**16**	**13**

The Board reviewed the curriculum structure, course objectives, course outcomes, syllabus content, and credit distribution for all courses including Professional Core Courses (PCC), Professional Elective Courses (PEC), Open Elective Courses (OEC), Employability Enhancement Courses (EEC), Mandatory Credit Courses (MCC), and Mandatory Non-Credit Courses (MNC) . The members appreciated the curriculum alignment with current industry requirements and academic progression.

2. Ratification

Ratification of Curriculum Revisions

The following curriculum revisions under Regulations 2025 were presented for ratification:

Course Movement Between Semesters

Course Code	Course Title	Existing Semester	Revised Semester
U25CSG12	Computer Networks	V Semester	III Semester

U25CSG13	Computer Networks Laboratory	V Semester	III Semester
U25CSG16	Database Management Systems	III Semester	IV Semester
U25CSG17	Database Management Systems Laboratory	III Semester	IV Semester

Newly Introduced Courses

Course Code	Course Title	Semester	Applicable Departments
U25CSG18	Data Structures and Algorithms	III Semester	BM, EE, EC, MI
U25CSG19	Java Programming	IV Semester	BM, EE, EC, MI

The BoS members approved the ratification and appreciated the curriculum restructuring for better academic flow and foundational learning.

3. Professional Elective Courses

The following Professional Elective Courses were presented:

- User Experience Engineering
- Frontend Application Development
- Backend Enterprise Development
- Database Systems and Data Engineering
- Web Architecture and API Design
- Mobile Application Development
- Artificial Intelligence for Web Applications
- DevOps and Cloud Engineering

The members appreciated the introduction of electives aligned with Full Stack Development and current industry demands.

4. Open Elective Courses

The following Open Elective Courses were presented for students of other departments:

- Programming in C++
- Database Management Systems
- Web and Internet Programming
- Cloud Computing Fundamentals
- Operating Systems Fundamentals
- Augmented Reality and Virtual Reality
- Soft Computing

- Software Project Management

Additionally, the following WorldSkills Domain Open Electives were presented:

- Cloud Infrastructure & DevOps
- Cyber Defense and Security Operations
- Enterprise Network and Systems Administration
- Cross-Platform Mobile Application Development
- Intelligent Surveillance and Access Control Systems
- Full-Stack Web Engineering and UI Development

The members appreciated the interdisciplinary and skill-oriented approach of the Open Electives.

5. Suggestions and Recommendations by BoS Members

The following valuable suggestions were provided by the members:

1. Mr. Vijaysankar Kanagarajan suggested including one case study per unit such as Banking, Healthcare, and Manufacturing in the Cryptography and Network Security course.
2. Dr. V. Kavitha recommended including separate evaluation metrics for regression and classification in Unit IV – Supervised Learning of the Computational Intelligence and Machine Learning course.
3. Mr. Shanjay KM suggested including AI Ethics as part of the curriculum in the Computational Intelligence and Machine Learning course.
4. Mr. Shanjay KM also recommended including RPA (Robotic Process Automation) as a project component in the same course.
5. Mr. Vijaysankar Kanagarajan suggested including IoT Gateways and Cloud Integration in Unit IV of the Embedded Systems and Smart Devices course.
6. Dr. J. C. Miraclin Joyce Pamila and Mr. Vijaysankar Kanagarajan recommended including the latest security tools in the Cryptography and Network Security Laboratory.
7. Mr. Vijaysankar Kanagarajan suggested introducing Native/Mobile Application Development either as a separate course or as a unit under Web Frameworks.
8. Dr. J. C. Miraclin Joyce Pamila and Dr. V. Kavitha recommended including recent and challenging problem statements in the MCC course Computational Thinking for Problem Solving.

The Chairperson assured the members that the suggestions would be incorporated appropriately.

6. One Credit Courses (OCC) and Value-Added Courses (VAC)

The Chairperson presented the following newly introduced courses for approval for the Odd Semester of 2026–2027:

One Credit Courses (OCC)

- 3D Modeling for AR/VR using Blender
- LLM Engineering & MLOps: Agentic Systems to Production
- AI in UI/UX Design
- Generative AI Design Sprint
- Smart Systems: AI Techniques for Everyday Applications
- Generative AI in Action: From Text to Image

Value Added Course (VAC)

- Cyber Awareness and Light Security

The members appreciated the relevance of these courses and approved them.

7. PG Programme (M.E. Computer Science and Engineering – R2026)

Presentation of PG Curriculum Structure and Syllabi

The Chairperson also presented the proposed M.E. Computer Science and Engineering – R2026 to the Board of Studies members for discussion and approval. The programme consists of a total of 69 credits, including Foundation Courses (FC), Professional Core Courses (PCC), Professional Elective Courses (PEC), Research Methodology & IPR (RMC), Employability Enhancement Courses (EEC), Project Work, and Internship.

The detailed syllabi for Semester I to Semester IV, along with the Professional Elective Courses, were presented to the BoS members for discussion and approval.

SEMESTER I

S.NO.		COURSE TITLE	CATEGORY	L	T	P	C
		THEORY					
1		Advanced Mathematical Methods	FC	3	1	0	4
2		Advanced Data Structures and Algorithms	PCC	2	0	2	3
3		Agile Software Development and Usability Engineering	PCC	3	0	0	3
4		Intelligent Computing Techniques	PCC	3	0	0	3
5		Professional Elective I	PEC	3	0	0	3

6	Research Methodology & IPR	RMC	3	0	0	3
	PRACTICALS					
7	Intelligent Computing Techniques Laboratory	PCC	0	0	4	2
		TOTAL	**17**	**1**	**6**	**21**

SEMESTER II

S.NO.	COURSE TITLE	CATEGORY	L	T	P	C
	THEORY					
1	Advanced Operating Systems	PCC	3	0	0	3
2	Multicore Architectures	PCC	2	0	2	3
3	Cloud and Big Data Analytics	PCC	3	0	0	3
4	Open Elective	PEC	3	0	0	3
5	Professional Elective II	PEC	3	0	0	3
6	Professional Elective III	PEC	3	0	0	3
	PRACTICALS					
7	Cloud and Data Analytics Laboratory	PCC	0	0	4	2
8	Technical Seminar	EEC	0	0	2	1
9						
		TOTAL	**17**	**0**	**10**	**21**

SEMESTER III

S.NO.	COURSE TITLE	CATEGORY	L	T	P	C
	THEORY					
1	Professional Elective IV	PCC	3	0	0	3
2	Professional Elective V	PEC	3	0	0	3
3	Self-Learning course	-	-	-	-	1
	PRACTICALS					
4	Project Work – Phase I	EEC	0	0	12	6
		TOTAL	**6**	**0**	**12**	**13**

SEMESTER IV

S.NO.	COURSE TITLE	CATEGORY	L	T	P	C
	THEORY					
1	Project Work – Phase II	EEC	0	0	24	12
2	Industrial Training / Internship	EEC	0	0	0	2
		TOTAL	**0**	**0**	**24**	**14**

Suggestions by BoS Members

The members appreciated the curriculum design and provided the following suggestions:

- Dr. V. Kavitha recommended strengthening the Research Methodology and IPR course with recent case studies on patent filing, research publication standards, and dissertation writing practices.
- Mr. Vijaysankar Kanagarajan suggested including more hands-on components and mini-projects in the laboratory courses along with exposure to latest industry tools such as TensorFlow, PyTorch, Apache Spark, Docker, and Kubernetes.
- Mr. Shanjay KM recommended including advanced topics such as Explainable AI, Responsible AI, Generative AI, Retrieval-Augmented Generation (RAG), and Autonomous Intelligent Agents in the Professional Elective courses.
- Dr. J. C. Miraclin Joyce Pamila suggested strengthening industry collaboration through dissertation-based problem statements, internship-driven project work, and research-oriented project development.

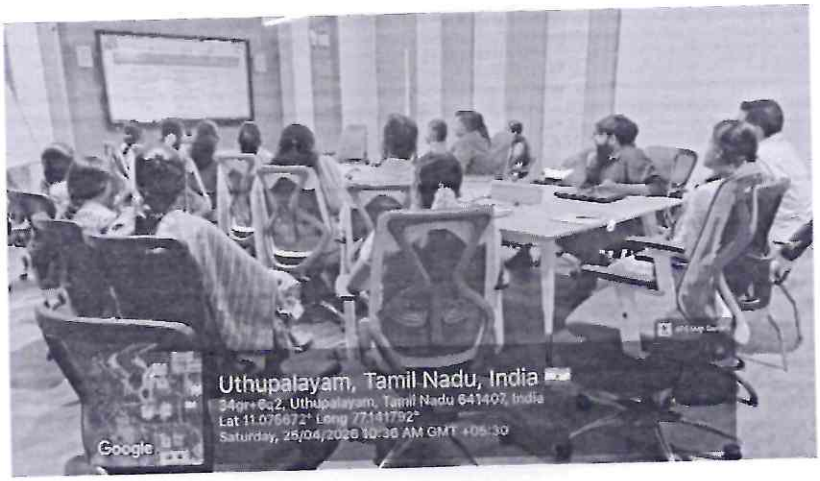
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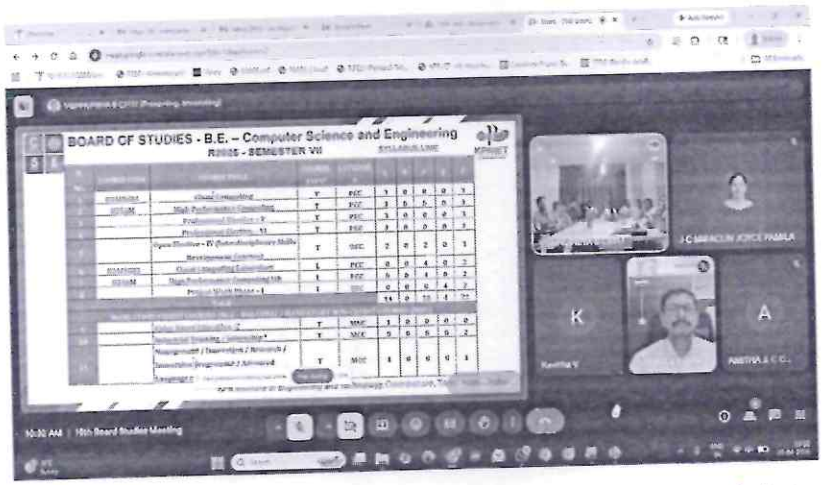
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6/5/2026

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