	KUMARAGURU COLLEGE OF TECHNOLOGY	Ref No. KCT/ECE/BOS25/2024-25/01
	DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING **25th Board of Studies Meeting**	**Prepared by: Dr. M. Bitan De, AP** **Issued by: Dr. M. Bharathi, HOD** **Issue Date: 20-08-2024**
	MINUTES OF MEETING	Page Number: 1 of 7

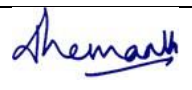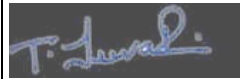| Date:	**13-08-2024**	Time:	**1.00 to 3.00 PM**	Venue	**Online via MS Teams**

Participants of the meeting

External Panel Members

1. Dr. I. S. Akila, (Anna University Nominee), Associate Professor, Department of ECE, Coimbatore Institute of Technology, Coimbatore-641014

2. Dr. T. Veerakumar, (Subject Expert), Associate Professor, Department of ECE, National Institute of Technology Goa, Ponda, Goa-403401

3. Dr. D. Jude Hemanth, (Subject Expert), Professor, Department of ECE, Karunya Institute of Technology and Sciences, Coimbatore-641114

4. Mr. R. Sanjaykumar, (Industry Expert), Program Manager, Sasken Technologies Limited, Bengaluru-560071

5. Ms. T. Jeevaranjani, (Alumni Member), System Architect, Bosch Global Software Technologies, Coimbatore-641035

Internal Panel Members

1. Dr. M. Ezhilarasi, Principal, KCT

2. Dr.N.Ramesh Babu, Dean – Electrical Sciences & Curriculum Design & Development, KCT

3. Dr.M.Bharathi (BoS Chairperson)- Professor and Head, ECE, KCT

4. Dr.Rani Thottungal, Professor, ECE, KCT

5. Dr.A.Vasuki, Professor, ECE, KCT

6. Dr.K.Kavitha (UG Programme Coordinator), Professor, ECE, KCT

7. Dr.B.Gopinath (BoS Coordinator), Associate Professor, ECE, KCT

8. Dr.V.Vanitha (Member from allied department), Professor, CSE, KCT

9. Dr.A.Amsaveni, Professor, ECE, KCT

10. Dr.S.Umamaheswari, Associate Professor, ECE, KCT

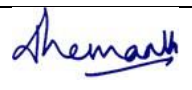11. Dr.S.Sasikala, Associate Professor, ECE, KCT

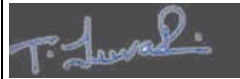|					
Dr. M. Bharathi (BoS Chairperson)	Dr. I. S. Akila (Anna University Nominee)	Dr. T. Veerakumar (Subject Expert)	Dr. D. Jude Hemanth (Subject Expert)	Mr. R. Sanjaykumar (Industry Expert)	Ms. T. Jeevaranjani (Alumni Member)

12. Dr.S.N.Shivappriya, Associate Professor, ECE, KCT

13. Dr.K.Thilagavathi, Assistant Professor, ECE, KCT

14. Dr.K.Gavaskar, Assistant Professor, ECE, KCT

15. Mr.R.Darwin, Assistant Professor, ECE, KCT

16. Ms.R.DhivyaPraba, Assistant Professor, ECE, KCT

17. Ms.A.Kalaiselvi, Assistant Professor, ECE, KCT

18. Ms.K.Anusha, Assistant Professor, ECE, KCT

19. Mr.D.Allin Joe, Assistant Professor, ECE, KCT

20. Ms.K.Karthika, Assistant Professor, ECE, KCT

21. Mr. S. Arun Kumar, Assistant Professor, ECE, KCT

22. Dr.V.P.Ajay, Assistant Professor, ECE, KCT

23. Ms.K. Jasmine, Assistant Professor, ECE, KCT

24. Mr.S.Boopathy, Assistant Professor, ECE, KCT

25. Dr.D.Gracia, Assistant Professor, ECE, KCT

26. Ms.T.Jaspar Vinitha Sundari, Assistant Professor, ECE, KCT

27. Dr.S.Vignesh Raja, Assistant Professor, ECE, KCT

Agenda:

1. Action Taken Report on previous BoS meeting

2. Discussion on R24 curricular components (UG & PG)

3. Discussion on R24- I & II semester syllabus (UG & PG)

4. Introduction of New Professional Electives

5. Introduction of Honors and Minor Courses

6. R18A-revised CO/PO/PSO Mapping

7. Any other matters (with the permission of Chairperson, BoS)

M.Bharathi		T. Veerakvr	Hemanth	Sniv	T. Jeevad.
Dr. M. Bharathi (BoS Chairperson)	Dr. I. S. Akila (Anna University Nominee)	Dr. T. Veerakumar (Subject Expert)	Dr. D. Jude Hemanth (Subject Expert)	Mr. R. Sanjaykumar (Industry Expert)	Ms. T. Jeevaranjani (Alumni Member)

MINUTES OF MEETING & ACTION POINTS

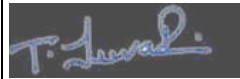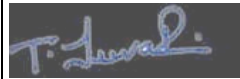**Codes:** **A**: *Action*   **C**: *Comment*   **D**: *Decision*   **R**: *Recommendation*

S.No	CODE	DESCRIPTION & DISCUSSION POINTS
1.	A	**Action Taken Report on Previous BoS Meeting** • Dr. M. Bharathi, Chairperson & HOD-ECE, delivered the welcome address. • The action taken report of the previous 23rd and 24th BoS meetings were presented, and all the suggestions given by the BoS members were incorporated in the proposed R24 curriculum and syllabus of UG programme.

S. No	Feedback	Action Taken
1.	Dr. I.S. Akilla, Anna University nominee suggested to divide the entire curriculum as category wise as per AICTE and University guidelines such as Basic science, Engineering science, Professional core and so on.	The proposed R24 curriculum components have been divided into category wise as per the AICTE and University guidelines.
2.	Mr. R. Sanjaykumar, Industry expert and other BOS members suggested to include the C programming course in the first year.	C programming Language course is included in the first year curriculum of the R24 curriculum and syllabus.
3.	Dr. T Veerakumar, subject expert, suggested to shift the Object Oriented Programming and Data Structure course from III semester to higher semesters to avoid overloading on the students.	Object Oriented Programming and Data Structure course is moved to IV semester from III semester under the R24 curriculum and syllabus.
4.	Combining the content of three courses Electromagnetic fields, Transmission Lines and Waveguides and Antenna and Propagation into two courses was discussed.	It has been implemented under the R24 curriculum and syllabus.

Dr. M. Bharathi (BoS Chairperson)	Dr. I. S. Akila (Anna University Nominee)	Dr. T. Veerakumar (Subject Expert)	Dr. D. Jude Hemanth (Subject Expert)	Mr. R. Sanjaykumar (Industry Expert)	Ms. T. Jeevaranjani (Alumni Member)

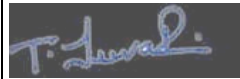|		
![logo] KUMARAGURU COLLEGE OF TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING **25th Board of Studies Meeting**	**Ref No. KCT/ECE/BOS25/2024-25/01**	
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5.	Dr. I. S. Akila and Dr. T. Veerakumar recommended to introduce the communication related courses from IV semester onwards instead of V semester. Dr.Jude Hemanth advised to shift the VII and VIII semester courses based upon student's internship, placement and higher studies.	Communication courses are introduced from the IV semester onwards instead of V semester. Professional elective courses will be fixed in the VII semester to map the credits of internship under the R24 curriculum and syllabus.

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2.	**C, R**	**Discussion on R24 curricular components (UG & PG)**

- The highlights of the upcoming regulation 2024 were presented by Dr.N.Ramesh Babu, Dean (Electrical Sciences & Curriculum Design and Development) and inputs were received from the BoS members.

- Dr. D. Jude Hemanth, Subject Expert, suggested to introduce mandatory credit transfer from online NPTEL-SWAYM courses for UG and PG. HOD-ECE replied that the provision of credit transfer (non-mandatory) has been incorporated from online NPTEL-SWAYAM courses as per R24 regulations.

- Dr. D. Jude Hemanth suggested to include one or two courses by blending AI and ML with signal processing. HOD-ECE replied to check the possibilities during the inclusions of professional elective courses.

- Dr. I. S. Akila, Anna University Nominee, suggested to reduce the total number of credits from 165 credits. HOD-ECE replied that it would be discussed and finalized in forthcoming BoS meetings since the curriculum design process is in its early stage.

- Ms. T. Jeevaranjani, (Alumni Member), discussed about the course **Innovation Practicum.** She also assured to provide industry support while executing the course.

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3.	**C, R**	**Discussion on R24- I & II semester syllabus (UG & PG)**

- The I & II semester curriculum and syllabus content under R24 were presented and reviewed by the BoS panel members.

- Dr. I. S. Akila suggested to remove CO6 in **Network Theory** course since this course does not have any laboratory component. The suggestion was accepted and CO6 was removed.

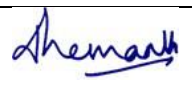| Dr. M. Bharathi (BoS Chairperson)	Dr. I. S. Akila (Anna University Nominee)	Dr. T. Veerakumar (Subject Expert)	Dr. D. Jude Hemanth (Subject Expert)	Mr. R. Sanjaykumar (Industry Expert)	Ms. T. Jeevaranjani (Alumni Member)
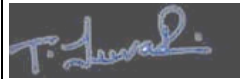
		• Dr. T. Veerakumar, Subject Expert, suggested to include network synthesis part in the Network Theory course. Based on R24 course structure, students will study Laplace transforms during II Semester in **Computational Differential Equations** course. Since the course handling faculty members felt the Laplace Transforms as pre-requisites for network synthesis part, it could not be included in the existing I Semester **Network Theory** course.
		• Dr. I. S. Akila suggested to modify the CO-PO mapping in **Electrical Machines and Drive** course and include the higher order COs. She also insisted to include case studies in each module. Based on the suggestions case studies were included. The higher order COs were introduced with modified CO-PO mapping. Also, it was decided to offer **Electrical Machines and Drive** as a theory course in II Semester based on the discussion with Electrical Cluster members.
		• Dr. I. S. Akila recommended to include feedback amplifiers and oscillators in **Electron Devices and Circuits** course. This point was discussed in the internal module coordinator meeting and decided to include feedback amplifiers and oscillators by shrinking the devices part in **Electron Devices and Circuits** course.
		• Dr. D. Jude Hemanth suggested to rename the course **Applied Mathematics for VLSI Design** to **Graph Theory** in the I Semester M.E. VLSI Design. Dr. T. Veerakumar suggested to include few core courses related to **Digital Signal Processing** in M.E. VLSI Design. HOD-ECE replied that these points would be discussed and finalized in the forthcoming BoS meetings because the M.E. VLSI Design would be offered from the next academic year (2025-26) onwards.

4.	D, R	**Introduction of New Professional Electives**
		
		 • New professional electives under R18A in VLSI and Communication System verticals were presented and approved by the BoS members.
		
		 • **VLSI Vertical Courses**
		
		     • U18ECE0046 - Introduction to VLSI Design and Data Structures
		     • U18ECE0047 - High Level Digital Design
		     • U18ECE0048 - CMOS VLSI Design
		     • U18ECE0049 - System Verilog and Verification
		     • U18ECE0050 - Advanced VLSI Design

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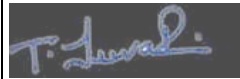
		• **Communication Vertical Courses**
		   • U18ECE0006 – Radar System Design
		   • U18ECE0007 – Avionic System Design
		   • U18ECE0008 – Electronic warfare and ECM/ECCM technologies
		 • Professional elective courses under R24 in M.E. VLSI Design were introduced for enabling PhD scholars to write course work examinations.
		   • P24VLXXX – mmWAVE Communication
		   • P24VLXXX – Advanced Antenna Design
		   • P24VLXXX – Ultra Wide band Communications
		 • BoS panel members suggested to introduce the same under Communication vertical.
		 • Dr. T. Veerakumar suggested to check the possibilities of framing domain-specific course work syllabus by the respective PhD supervisors. Dr. I. S. Akila seconded the idea and suggested that these courses might also be included in the Ph.D. coursework bucket list.

5.	C, R	**Introduction of Honors and Minor Courses** • Introduction of Honors and Minor Courses was discussed. • **Honors courses:** Honors courses (6 courses for 18 credits) are going to be offered from V Semester onwards for own department students. • **Eligibility:** Students should have a minimum CGPA of 7.50 until III Semester and have cleared all the courses in the first attempt. Students can take 6 courses from any Professional Elective verticals. Students can earn a maximum of 6 credits in online mode from SWAYAM-NPTEL. • **Minor courses:** Minor courses (6 courses for 18 credits) are going to be offered from V Semester onwards for other department students. • **Eligibility:** Students should have a minimum CGPA of 7.50 until III Semester and have cleared all the courses in the first attempt. Students can take 6 courses from the list of courses. Students can earn a maximum of 6 credits in online mode from SWAYAM-NPTEL.

Dr. M. Bharathi (BoS Chairperson)	Dr. I. S. Akila (Anna University Nominee)	Dr. T. Veerakumar (Subject Expert)	Dr. D. Jude Hemanth (Subject Expert)	Mr. R. Sanjaykumar (Industry Expert)	Ms. T. Jeevaranjani (Alumni Member)

		• Dr. D. Jude Hemanth suggested that the course titles for the Honors and Minor courses should be consistent with the AICTE proposed list. The suggestion was accepted, and the chairperson assured the panel to follow the same.
		• Dr. I. S. Akila raised a query about the award of degree with Honors courses. Dr. N. Ramesh Babu and chairperson explained that the UG degree would be awarded as B.E. Electronics and Communication Engineering with Honors for those who earned 16 credits under Honors courses.
6.	C, R	**R18A-revised CO/PO/PSO Mapping** • Course Outcomes (COs) of the existing R18A courses have been redrafted based on the feedback received from NBA expert members and internal auditors. • CO/PO/PSO mapping has been done for the redrafted COs through deep brainstorming sessions by module coordinators and members. • R18A with revised CO/PO/PSO mapping is followed from the current academic year 2024-25 onwards. • The updated COs and CO/PO/PSO were discussed and approved by the BoS members. • Dr. D. Jude Hemanth suggested to introduce various active teaching-learning methods related to PO6 to PO12 so that all the COs could be mapped with PO6 to PO12.
7.	-	**Any other matters** • Dr.B. Gopinath, BoS-Coordinator, delivered vote of thanks for the 25th BoS meeting.

Dr. M. Bharathi (BoS Chairperson)	Dr. I. S. Akila (Anna University Nominee)	Dr. T. Veerakumar (Subject Expert)	Dr. D. Jude Hemanth (Subject Expert)	Mr. R. Sanjaykumar (Industry Expert)	Ms. T. Jeevaranjani (Alumni Member)