



Department of Electronics & Communication Engineering

Minutes of BoS Meeting

A meeting of the Board of Studies (BoS) of the Department of Electronics and Communication Engineering, College of Engineering, was held on 28 April 2026 to discuss and review the proposed syllabus revisions and other academic proposals for the Academic Session 2026–27. The Head of the Department, Electronics and Communication Engineering chaired the meeting. Various curriculum-related matters and academic initiatives were deliberated upon in accordance with the provisions of NEP-2020 and the relevant regulatory guidelines. The following members were present at the meeting:

1. Prof. R.P.S. Gangwar, Professor, EC, Women Institute of Technology, Dehradun (External Expert)
2. Prof. Rakesh Kumar Dwivedi, Professor, Dean, FoE, TMU, Moradabad (Nominated Member)
3. Dr. Alka Verma (Chairperson, BoS)
4. Dr. Vibhor Kumar Bhardwaj, Assistant professor, ECE, TMUCoE, Moradabad (Member, BoS)
5. Mr. Neeraj Kumar Kaushik Assistant professor, ECE, TMUCoE, Moradabad (Member, BoS)
6. Mr. Rahul Vishnoi Assistant professor, ECE, TMUCoE, Moradabad
7. Mr. Prashant Kumar Assistant professor, ECE, TMUCoE, Moradabad

The following Agenda points were discussed in the BoS meeting:

Agenda points

1. To review and approve the revised curriculum and syllabus of the B.Tech. Electronics and Communication Engineering (ECE), comprising a total of 166 credits, in accordance with the provisions of NEP-2020, while considering the AICTE Model Curriculum for Electronics & Communication Engineering (2023) as a guiding framework.
2. To consider and approve the introduction of the following specialization tracks under the B.Tech. Electronics and Communication Engineering programme for the Academic Session 2026–27:
 - a. Internet of Things (IoT) and Embedded Systems
 - b. Artificial Intelligence and Machine Learning
 - c. Data Science





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3. To consider and approve the introduction of Minor Degree programmes (20 credits each) in the following areas:

- a. Internet of Things (IoT) and Embedded Systems
- b. Artificial Intelligence and Machine Learning
- c. Data Science

These Minor Degree programmes shall be open to students from other engineering disciplines, including Electrical Engineering (EE), Mechanical Engineering (ME), Civil Engineering (CE), and Computer Science & Engineering (CSE).

4. To consider and approve the introduction of B.Tech. (Honours) programmes in the following areas for students of Electronics and Communication Engineering:

- a. Advanced VLSI Design
- b. Advanced Communication Engineering

Students may pursue any one of the above Honours programmes by earning an additional 20 credits through five specialized theory-cum-laboratory courses of 4 credits each.

5. To review and approve the revised Course Outcomes (COs) of the following courses offered by the Department of Electronics and Communication Engineering for the Academic Session 2025–26:

- a. Analog and Digital Electronics (EEEC613)
- b. Electronic Devices and Circuits (EEEC412)

6. To discuss and deliberate upon any other matter with the permission of the Chair.

Action Taken:

1. The proposal to redesign the B.Tech. Electronics and Communication Engineering curriculum in accordance with the provisions of NEP-2020 and the AICTE Model Curriculum for Electronics and Communication Engineering (2023) was presented by the Head of the Department. The revised curriculum structure, comprising a total of 166 credits, emphasizes academic flexibility, multidisciplinary learning, skill development, and industry-oriented education. The external expert and the members of the Board of Studies carefully reviewed the proposed framework and discussed its various components in detail. After due deliberation, the Board unanimously approved the revised curriculum and syllabus for implementation from the Academic Session 2026–27 onwards, subject to the approval of the competent academic authorities of the University.





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2. The proposal for the introduction of new specialization tracks under the B.Tech. The Head of the Department presented Electronics and Communication Engineering programme for the Academic Session 2026–27. The curriculum structure, objectives, scope, and relevance of the proposed specializations were discussed in detail. After careful review and deliberation, the external expert and the members of the Board of Studies unanimously approved the introduction of the following specializations:

- a. Internet of Things (IoT) and Embedded Systems
- b. Artificial Intelligence and Machine Learning
- c. Data Science

The external expert appreciated the inclusion of emerging technologies and interdisciplinary domains in the curriculum, noting that these specializations are well aligned with current industry requirements, technological advancements, and the objectives of NEP-2020. The BoS members concurred with the expert's observations and endorsed the proposal.

3. The proposal to introduce Minor Degree programmes in the following areas was discussed in detail:

- a. Internet of Things (IoT) and Embedded Systems
- b. Artificial Intelligence and Machine Learning
- c. Data Science

It was proposed that students from other engineering disciplines, including Electrical Engineering, Mechanical Engineering, Civil Engineering, and Computer Science & Engineering, may pursue these Minor Degree programmes by earning an additional 20 credits. The objectives, curriculum structure, and interdisciplinary benefits of the proposed programmes were deliberated upon extensively.

After reviewing the proposal, the external expert appreciated the initiative to promote multidisciplinary learning and enhance students' knowledge in emerging technological domains. The members of the Board of Studies unanimously approved the introduction of the Minor Degree programmes in the aforementioned areas.

4. The proposal to introduce B.Tech. (Honours) programmes in Electronics and Communication Engineering in the following areas was discussed in detail:



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a. Advanced VLSI Design

b. Advanced Communication Engineering

It was proposed that students of the B.Tech. Electronics and Communication Engineering programme may pursue any one of the above Honours specializations by earning an additional 20 credits through five specialized courses comprising theory and laboratory components.

The external expert appreciated the initiative, highlighting its potential to promote advanced domain expertise, research orientation, and industry readiness among students. After detailed deliberations, the members of the Board of Studies unanimously approved the introduction of the Honours programmes in the aforementioned fields.

5. The review of the Course Outcomes (COs) for the courses EEC413 and EEC613 under the B.Tech. Electronics and Communication Engineering programme for the Academic Session 2025–26 was carried out. The Head of the Department presented the revised COs, which were updated to ensure better alignment with the Programme Outcomes (POs), Programme Specific Outcomes (PSOs), and current industry requirements.

The proposed revisions were discussed in detail by the external expert and the members of the Board of Studies. After due consideration, the revised Course Outcomes were unanimously accepted and approved for implementation.

S.No	Subject Name with code	Old CO's	New CO's
1	Analog and Digital Electronics (EEC613)	1.Understand ancient Indian knowledge of amplification, op-amp frequency response, and multivibrators. 2.Apply concepts of nonlinear circuits, comparators, and voltage regulators in practical scenarios. 3.Analyze active filters, analog/digital converters, and their characteristics. 4.Analyze various circuits using op amp like rectifier, sample and hold circuit. 5.Analyze the different types of converters using op amp	1.Understand ancient Indian knowledge of amplification, op-amp frequency response, and multivibrators. 2.Apply concepts of nonlinear circuits, comparators, and voltage regulators in practical scenarios. 3.Analyze active filters, analog /digital converters, and their characteristics. 4.Analyze various circuits using op amp like rectifier, sample and hold circuit. 5. Analyze the different types of converters using op amp.
2	Electronic Devices &	1. Understand ancient Indian knowledge of amplification, op-amp	1. Understand ancient Indian knowledge of amplification,



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Circuits (EEC 412)	frequency response, and multivibrators. 2. Apply concepts of nonlinear circuits, comparators, and voltage regulators in practical scenarios. 3. Analyze active filters, analog/digital converters, and their characteristics. 4. Analyze various circuits using op amp like rectifier, sample and hold circuit. 5. Analyse the different types of converters using op amp.	op-amp frequency response, and multivibrators. 2. Apply concepts of nonlinear circuits, comparators, and voltage regulators in practical scenarios. 3. Analyze active filters, analog/digital converters, and their characteristics. 4. Analyze the operation and applications of nonlinear amplifiers, operational transconductance amplifiers (OTAs), phase-locked loops (PLLs), monolithic PLLs, and noise effects in integrated circuit 5. Analyze IC 555 timer-based circuits like astable and monostable multivibrators, Schmitt triggers, voltage-controlled oscillators, and square/triangular wave generators.
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The members of the Board of Studies appreciated the valuable suggestions and unanimously agreed to consider them in future curriculum revisions and academic planning initiatives. The revised PSES of B.Tech. Electronics and Communication Engineering for the Academic Session 2026–27, incorporating all the above-approved changes and recommendations, is enclosed as Annexure-II.

The meeting ended with a vote of thanks.

Dr. Alka Verma

HoD, Department of ECE

Prof. R.P.S. Gangwar

WIT, Dehradun

Prof. R.K. Dwivedi

Dean, FOE



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Dr. Vibhor Kumar Bhardwaj

Mr. Neeraj Kaushik

BoS member

BoS member

Glimpses of BoS Meeting

