



MINUTES OF THE MEETING OF THE BOARD OF STUDIES

For B.Tech ECE and B.Tech EE Programs

Meeting No.: 6

Date: 30th May 2025 Time: 3:00 PM

The meeting was chaired by Prof. Ankur Gupta, Director, MIET, and conducted in a hybrid mode. At the outset, Prof. Gupta warmly welcomed all the members of the Board of Studies and invited Dr. Surbhi Sharma, Head, Department of Electronics and Communication Engineering, to conduct the proceedings of the meeting.

The agenda items along with their descriptions and relevant annexures were shared with the members on 22nd May 2026 through email and were subsequently taken up for discussion.

Members present in the meeting:

1.	Prof. Ankur Gupta <i>Director, MIET</i>
2.	Prof. Kumud Ranjan Jha <i>Dean Faculty of Engineering, ECE, SMVDU, Katra</i>
3.	Dr. Ravi Kant Saini <i>Associate Professor, EE, IIT, Jammu</i>
4.	Dr. Zakir Hussain Rather <i>Associate Professor, IIT Bombay</i>
5	Prof. Sahil Sawhney <i>Dean Strategy and Quality Assurance, MIET</i>
6.	Dr. Surbhi Sharma <i>Head, Department of Electronics and Communication Engineering, MIET</i>
7.	Mr. Bhanu Pratap Singh <i>Assistant Professor, Department of Electrical Engineering, MIET</i>
8.	All Faculty Members <i>ECE & EE Departments, MIET</i>

Note: Prof. Parveen Lehana, Department of Electronics, University of Jammu, Dr. Anup Shukla, Associate Professor, IIT Jammu and Mr. Manoj Gupta, Assistant General Manager, Mitsubishi Electric India Pvt. Ltd. could not attend the meeting due to prior commitments.

AGENDA ITEMS

- 1. To confirm the minutes of the 5th meeting of the Board of Studies - B.Tech ECE and B.Tech EE programs held on 12th June 2025.**

Resolved that the minutes of the 5th meeting of the Board of Studies held on 12th June 2025 and circulated to the esteemed members on 18th June 2025, be confirmed.



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2. To formulate the curriculum for the 1st and 2nd semesters of the B.Tech ECE program for the batch 2026–30 and onwards.

Resolved that the curriculum of the 1st and 2nd semesters of the B.Tech ECE program for the batch 2026–30 and onwards be endorsed to the Academic Council for approval after incorporating the suggestions and inputs received from external experts.

The changes have been incorporated, and the detailed modified curriculum is attached as **Annexure I**.

The curriculum scheme for 1st and 2nd semesters of the B.Tech ECE program, along with the percentage change in courses, is provided in Table 1 and Table 2 below:

Semester - 1

Course Code	Course Name	Course Type	Cd	L	T	P	Total Marks	%age Change in Syllabus
BSC-101	Engineering Mathematics-I	BSC	4	4	0	0	100	-
BSC-102	Engineering Physics	BSC	4	4	0	0	100	-
ESC-101	Problem Solving and Programming	ESC	4	4	0	0	100	100%
HSMC-101	Design Thinking	HSMC	3	3	0	0	100	-
BSC-112	Engineering Physics Lab	BSC	1	0	0	2	50	-
ESC-111	Programming Lab	ESC	2	0	0	4	50	100%
HSMC-111	Design Thinking Lab	HSMC	1	0	0	2	50	100%
OEC-101	MOOC	MCC	1	1	0	0	50	100%
Total			20				600	

Table 1: Course Scheme along with percent change in the curriculum

Semester 2

Course Code	Course Name	Course Type	Cd	L	T	P	Total Marks	%age Change in Syllabus
BSC-201	Engineering Mathematics-II	BSC	4	4	0	0	100	-
ECE-201	Basic Electrical and Electronics Engineering	PCC	4	4	0	0	100	20%
ESC-201	Data Structures using C	ESC	4	4	0	0	100	100%
HSMC-202	Communication and Technical Writing	HSMC	4	4	0	0	100	-
ECE-211	Basic Electrical and Electronics Engineering Lab	PCC	2	0	0	4	50	20%
ESC-211	Data Structures using C Lab	ESC	2	0	0	4	50	100%
ESC-212	Makers Lab	ESC	1	0	0	2	50	100%
OEC-201	MOOC	MCC	1	1	0	0	50	100%
Total			22				600	

Table 2: Course Scheme along with percent change in the curriculum

3. To formulate the curriculum for the 1st and 2nd semesters of the B.Tech EE program for the batch 2026–30 and onwards.



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Resolved that the curriculum of the 1st and 2nd semesters of the B.Tech EE program for the batch 2026–30 and onwards be endorsed to the Academic Council for approval after incorporating the suggestions and inputs received from external experts during the meeting.

The changes have been incorporated, and the detailed modified curriculum is attached as **Annexure II**.

The curriculum scheme for 1st and 2nd semesters of the B.Tech EE program, along with the percentage change in courses, is provided in Table 3 and Table 4 below:

Semester1

Course Code	Course Name	Course Type	Cd	L	T	P	Total Marks	%age Change in Syllabus
BSC-101	Engineering Mathematics-I	BSC	4	4	0	0	100	-
BSC-102	Engineering Physics	BSC	4	4	0	0	100	-
ESC-101	Problem Solving and Programming	ESC	4	4	0	0	100	100%
HSMC-101	Design Thinking	HSMC	3	3	0	0	100	-
BSC-112	Engineering Physics Lab	BSC	1	0	0	2	50	-
ESC-111	Programming Lab	ESC	2	0	0	4	50	100%
HSMC-111	Design Thinking Lab	HSMC	1	0	0	2	50	100%
OEC-101	MOOC	MCC	1	1	0	0	50	100%
Total			20				600	

Table 3: Course Scheme along with percent change in the curriculum

Semester 2

Course Code	Course Name	Course Type	Cd	L	T	P	Total Marks	%age Change in Syllabus
BSC-201	Engineering Mathematics-II	BSC	4	4	0	0	100	-
EE-201	Basic Electrical and Electronics Engineering	PCC	4	4	0	0	100	20%
ESC-201	Data Structures using C	ESC	4	4	0	0	100	100%
HSMC-202	Communication and Technical Writing	HSMC	4	4	0	0	100	-
EE-211	Basic Electrical and Electronics Engineering Lab	PCC	2	0	0	4	50	20%
ESC-211	Data Structures using C Lab	ESC	2	0	0	4	50	100%
ESC-212	Makers Lab	ESC	1	0	0	2	50	100%
OEC-201	MOOC	MCC	1	1	0	0	50	100%
Total			22				600	

Table 4: Course Scheme along with percent change in the curriculum

4. To formulate the curriculum for the 5th to 8th semesters of the B.Tech EE program for the batches 2024–28 and 2025-29.

Resolved that the curriculum of the 5th to 8th semesters of the B.Tech EE program for the 2024–28 and 2025-29 batches, be endorsed to the Academic Council for approval.



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The semester-wise course scheme along with percentage of curriculum changed in the courses are given below in Table 5 and Table 6:

Semester 5

Course Code	Course Name	Course Type	Cd	L	T	P	Total Marks
EE-504	Professional Industrial Training/Internship	Summer Internship	3	0	0	0	100

Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Sessional	Final Exam	Total	
EE-501	Electrical Measurements and Instrumentation	PCC	4	3	1	0	50	100	150	100%
EE-502	Introduction to Electric Vehicles	PCC	4	3	1	0	50	100	150	100%
ESC-501	Internet of Things	ESC	4	3	1	0	50	100	150	100%
EE-503	Core Elective*	PEC	3	3	0	0	50	100	150	100%
EE-511	Electrical Measurements and Instrumentation Lab	PCC	1	0	0	2	50	-	50	100%
EE-512	Electric Vehicles Lab	PCC	1	0	0	2	50	-	50	100%
ESC-511	Internet of Things Lab	ESC	2	0	0	4	50	-	50	100%
EE-506	Seminar	PCC	2	0	0	4	50	-	50	100%
NCC-501	Placement Preparation-I	NCC	0	0	0	2	Satisfactory / Not Satisfactory		S/NS*	100%
Total			24*	29			900			

*Note: Students are required to complete the professional industrial training / internship during summer semester breaks. Summer Internship Credits/Marks are also added in this semester's mark-sheet

Minor Degree Course

Course Code	Specialization Track	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid-Semester	End-Semester	Total	
MDC-AI/CS /CC/IoT/ DS/ Industry 4.0-501	Artificial Intelligence and Machine Learning/Cyber Security/Cloud Computing/IoT/Data Science/Industry 4.0	MOOC	5	5	0	0	25	125	150	100%

*Note: Students can enroll in only one course from Minor Degree Course.

Total Marks is 150 for any one of the chosen courses in the Hons. / Minor Degree Course.

Semester 6

Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Sessional	Final Exam	Total	
EE-601	Power System-I	PCC	4	3	1	0	50	100	150	100%
EE-602	Power Electronics	ESC	4	3	1	0	50	100	150	100%
EE-603	Control System	PCC	4	3	1	0	50	100	150	100%
EE-604	Smart Grid	PCC	3	3	0	0	50	100	150	100%
EE-611	Power System-I Lab	PCC	1	0	0	2	50	-	50	100%
EE-612	Power Electronics Lab	ESC	2	0	0	4	50	-	50	100%
EE-613	Control System Lab	PCC	1	0	0	2	50	-	50	100%
OEC-601	Open Elective*	OEC	2	2	0	0	50	-	50	100%



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NCC-601	Placement Preparation-II	NCC	0	0	0	2	Satisfactory / Not Satisfactory	S/NS **	100%
Total			21	27				800	

Minor Degree Course

Course Code	Specialization Track	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid-Semester	End-Semester	Total	
MDC-AI/CS /CC/IoT/ DS/ Industry 4.0-601	Artificial Intelligence and Machine Learning/Cyber Security/Cloud Computing/IoT/Data Science/Industry 4.0	MOOC	5	5	0	0	25	125	150	100%

Table 5: Course Scheme for 5th and 6th semester along with percent change in the curriculum

***Note:** Student can enroll in only one course from Minor Degree Course.

Total Marks is 150 for any one of the chosen courses in the Hons. / Minor Degree Course.

Semester 7
SCHEME-1

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Total Marks
1	EE-704	Professional Industrial Training/Internship	Summer Internship	4	0	0	0	150

Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Sessional	Final Exam	Total	
EE-701	Professional Elective 1	PEC	3	2	1	0	50	100	150	100%
EE-702	Professional Elective 2	PEC	3	2	1	0	50	100	150	100%
EE-703	Professional Elective 3 (SWAYAM/NPTEL MOOC/ any other Platform)	MCC	3	0	0	0	-	100	100	100%
OEC-701	Open Elective	OEC	3	3	0	0	50	100	150	100%
EE-705	Seminar	PEC	2	0	0	4	100	-	100	100%
EE-711	Minor Project	PROJ	3	0	0	6	100	150	250	100%
NCC-701	Essence of Indian Knowledge	NCC	0	0	0	2	Satisfactory / Not Satisfactory	S/NS**		100%
Total			21*	21					1050	

*Note: Students are required to complete the professional industrial training / internship during summer semester breaks. Summer Internship Credits/Marks are also added in this semester's mark-sheet

Professional Elective 3 will be delivered through MOOC available at SWAYAM/NPTEL.

**S=Satisfactory, NS=Not Satisfactory

SCHEME-2

Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid-Semester	End-Semester	Total	
PII-701	Industry Internship-I	Professional Industry Internship	15	0	0	30	350	500	850	100%
EE-703	Professional Elective 3* (SWAYAM/NPTEL MOOC/any other Platform)	MCC*	3	0	0	0	-	100	100	100%



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EE-706	Professional Elective 4* (SWAYAM/NPTEL MOOC/ any other platform)	MCC*	3	0	0	0	-	100	100	100%
Total			21	30					1050	

Under Scheme 1: The students must opt for two Professional Electives & one open elective course out of the given Professional/Open elective courses. One of the Professional Elective courses must be a MOOC selected from the list of MOOCs mentioned in the MOOCs list published by the department.

Under Scheme 2: Professional Elective 3*/Professional Elective 4* courses must be a MOOC selected from the list of MOOCs mentioned in the MOOCs list.

Note: The Department will publish a list of MOOCs available on SWAYAM/NPTEL/ any other platform before the commencement of the Next semester.

Semester 8
SCHEME-1

Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Sessional	Final Exam	Total	
EE-801	Professional Elective 1	PEC	3	2	1	0	50	100	150	100%
EE-802	Professional Elective 2	PEC	3	2	1	0	50	100	150	100%
EE-803	Professional Elective 3* (SWAYAM/NPTEL MOOC/Any Other Platform)	MCC*	3	0	0	0	-	100	100	100%
EE-811	Major Project	PROJ	6	0	0	12	200	300	500	100%
Total			15	18					900	

*Note: One of the Professional Elective courses must be a MOOC selected from the list of MOOCs mentioned in the MOOCs list.

Department to publish list of available MOOCs on SWAYAM/NPTEL/Any Other platform before the Commencement of the Next semester.

Scheme-2

Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
							Mid-Semester	End-Semester	Total	
PII-801	Industry Internship-II	Professional Industry Internship	15	0	0	30	300	600	900	100%
Total			15	30					900	

Table 6: Course Scheme for 7th and 8th semester along with percent change in the curriculum

Annexure 1: Open Electives Course List

S. No.	Semester	Course Code	Course Name
1	7	OEC-701	(A) Strategic Management
2			(B) Marketing Management
3			(C) Managerial Economics

Annexure 2: Professional Elective Courses List

S. No.	Semester	Course Code	Course Name
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1	7	EE-701	(A) Power System-II
2			(B) Computer Aided Electrical Machine Design
3			(C) Power System Protection
1	7	EE-702	(A) Wind and Solar Energy System
2			(B) Artificial Intelligence Applications in Electrical Engineering
3			(C) Instrumentation and Biomedical Engineering
1	8	EE-801	(A) Fundamentals of Blockchain Technology
2			(B) Soft Computing
3			(C) Cloud Computing and Services
1	8	EE-802	(A) UAVs and Drone Technology
2			(B) Electric Drives
3			(C) Power Quality and FACTs

The meeting concluded with a vote of thanks.

Prof. Ankur Gupta
Director, MIET

Copy to:

- Esteemed members of the BoS
- AR, MIET for putting up the recommendations of the BoS to the Academic Council
- Office Copy