



**MODEL INSTITUTE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)**  
(Permanently Affiliated to the University of Jammu, NAAC 'A' Grade Accredited)

**MINUTES OF THE MEETING OF THE BOARD OF STUDIES**

**FOR B.E ECE and B.E EE Programs**

**MEETING No.: 3**

**DATE: 22<sup>nd</sup> September 2023 TIME: 2:30 PM**

The meeting was chaired by Prof. Ankur Gupta, Director MIET and was held in an online mode. At the outset Prof. Gupta welcomed all the members of the Board of Studies and provided a brief overview of the action taken on the resolutions of the last meeting. The agenda items along with their narration and relevant annexures were circulated to the members on 19<sup>th</sup> September 2023 over email and were transacted during the meeting.

**Members present in the meeting:**

1.	<b>Prof. Ankur Gupta</b> <i>Director, MIET</i>	Chairperson
2.	<b>Dr. Ravi Kant Saini</b> <i>Assistant Professor, EE, IIT Jammu</i>	Expert Member
3.	<b>Dr. Anup Shukla</b> <i>Assistant Professor, EE, IIT Jammu</i>	Expert Member
4.	<b>Prof. Ashok Kumar</b> <i>Dean Academics Affairs, MIET</i>	Member
5.	<b>Dr. Sarabdeep Singh</b> <i>Assistant Professor, ECE, MIET</i>	Member
6.	<b>Ms. Gurpreet Kour</b> <i>Assistant Professor, ECE, MIET</i>	Member
7.	<b>Ms. Gurpreet Raina</b> <i>Assistant Professor, ECE, MIET</i>	Member
8.	<b>Ms. Shiveta Bhat</b> <i>Assistant Professor, ECE, MIET</i>	Member
9.	<b>Dr. Satyendra Kumar Singh</b> <i>Assistant Professor, EE, MIET</i>	Member
10.	<b>Mr. Bhanu Pratap Singh Jamwal</b> <i>Assistant Professor, EE, MIET</i>	Member
11.	<b>Mr. Parveen Kumar</b> <i>Assistant Professor, EE, MIET</i>	Member
12.	<b>Ms. Gurpreet Kour Sodhi</b> <i>Assistant Professor, EE, MIET</i>	Member
13.	<b>Ms. Surbhi Sharma</b> <i>Head of the Department &amp; Assistant Professor, ECE, MIET</i>	Member Secretary

**Note:** Prof. Parveen Lehana, Department of Electronics, University of Jammu, Dr. Kumud Ranjan Jha, Associate Professor & Head of Department, ECE, SMVDU, and Dr. Zakir Hussain Rather, Associate Professor, Department of Energy Science and Engg., IIT, Bombay could not attend the meeting due to prior commitments.



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**1. To confirm the minutes of the 2<sup>nd</sup> meeting of the Board of Studies - B.E ECE and B.E EE programs held on 8<sup>th</sup> September 2022.**

Resolved that the minutes of the 2<sup>nd</sup> meeting of the Board of Studies - B.E ECE and B.E EE programs held on 8<sup>th</sup> September 2022 and circulated to all members on 20<sup>th</sup> September 2022 be confirmed.

**2. To formulate the curriculum/syllabi for 7<sup>th</sup> & 8<sup>th</sup> semesters of the B.E ECE program for 2020-24 batch and beyond.**

Resolved that the syllabi of the 7<sup>th</sup> & 8<sup>th</sup> semesters for the B.E ECE program for 2020-24 batch and beyond be endorsed to the Academic Council. The members appreciated the following aspects of the proposed curriculum:

- Provision for the students to choose from two different academic paths as part of Scheme 1 and Scheme 2 during their 7<sup>th</sup> and 8<sup>th</sup> semesters of study.
- Introduction of professional electives to enable students to delve into specific areas of expertise or subjects that align with their professional aspirations.
- Embracing Indian Knowledge Systems through Non-Credit Courses in alignment with guidelines of University Grants Commission.
- Introduction of semester-long industry internship in the 7<sup>th</sup> and 8<sup>th</sup> semesters as part of the Scheme 2.
- Introduction of semester/year-long startup scheme to provide credit to students who engage in meaningful entrepreneurial pursuits leading to establishing a startup venture as part of the scheme 2.

The semester wise course scheme along with percentage of curriculum changed in those courses is give below in Table 1 and Table 2:

**Semester - 7 (Scheme-1)**

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Total Marks	%age Change in Syllabus
1	ECE-704	Professional Industrial Training/ Internship	Summer Internship	4	0	0	0	150	100%

**Note:** Students are required to complete the professional industrial training / Internship during summer semester breaks

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
								Sessional	Final Exam	Total	
1	ECE-701	Professional Elective 1	PEC	3	2	1	0	50	100	150	100%



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2	ECE-702	Professional Elective 2	PEC	3	2	1	0	50	100	150	100%	
3	ECE-703	Professional Elective 3*(SWAYAM/NPTEL MOOC/Any Other Platform)	MCC*	3	0	0	0	-	100	100	100%	
4	OEC-701	Open Elective	OEC	3	3	0	0	50	100	150	100%	
5	ECE-705	Seminar	PEC	2	0	0	4	-	100	100	100%	
6	ECE-711	Minor Project	PROJ	3	0	0	6	100	150	250	100%	
7	NCC-701	Essence of Indian Knowledge and Tradition	NCC	0	0	0	2	Satisfactory/ Not Satisfactory		S/NS*		
Total				21*	21						1050*	

\*Note: Summer Internship Credits/Marks are also added in this semester's marks sheet.

**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.

**Semester - 7 (Scheme-2)**

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus	
								Mid Semester	Final	Total		
1	PII-701	Industry Internship-I/ Startup Scheme-I	Professional Industry Internship	15	0	0	30	350	500	850	100%	
2	ECE-703	Professional Elective 3* (SWAYAM/NPTEL MOOC/any other Platform)	MCC*	3	0	0	0	-	100	100	100%	
3	ECE-706	Professional Elective 4* (SWAYAM/NPTEL MOOC/ any other platform)	MCC*	3	0	0	0	-	100	100	100%	
Total				21*	30						1050*	

Table 1: Course Scheme of 7<sup>th</sup> Semester ECE 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)**

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
								Sessional	Final Exam	Total	
1	ECE-801	Professional Elective 1	PEC	3	2	1	0	50	100	150	100%
2	ECE-802	Professional Elective 2	PEC	3	2	1	0	50	100	150	100%
3	ECE-803	Professional Elective 3*(SWAYAM/NPTEL MOOC/Any Other	MCC*	3	0	0	0	-	100	100	100%



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		Platform)									
4	ECE-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.

**Semester - 8 (Scheme-2)**

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
								Mid Semester	Final	Total	
1	PII-801	Industry Internship-II/ Startup Scheme-II	Professional Industry Internship	15	0	0	30	300	600	900	100%
Total				15	30						900

Table 2: Course Scheme of 8<sup>th</sup> semester ECE Department

**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
1	7	ECE-701	(A) Wireless Sensor Networks
2			(B) Advanced Mobile Technologies
3			(C) Optical Fiber Communication
1	7	ECE-702	(A) Introduction to AI with Machine Learning
2			(B) Introduction to Cyber security
3			(C) Fundamentals of Blockchain Technology
1	8	ECE-801	(A) Instrumentation and Biomedical Engineering
2			(B) Digital Image Processing
3			(C) Advanced Digital Signal Processing
1	8	ECE-802	(A) UAVs and Drone Technology
2			(B) Hybrid and Electric Vehicles
3			(C) Foundations of Internet of Things and Industry 4.0



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**3. To formulate the curriculum/syllabi for 7<sup>th</sup> & 8<sup>th</sup> semesters of the B.E EE program for 2020-24 batch and beyond.**

Resolved that the syllabi of the 7<sup>th</sup> and 8<sup>th</sup> semesters for the B.E EE program for 2020-24 batch and beyond be endorsed to the Academic Council for its approval.

The members appreciated the following aspects of the proposed curriculum:

- Provision for the students to choose from two different academic paths as part of Scheme 1 and Scheme 2 during their 7<sup>th</sup> and 8<sup>th</sup> semesters of study.
- Introduction of professional electives to enable students to delve into specific areas of expertise or subjects that align with their professional aspirations.
- Embracing Indian Knowledge Systems through Non-Credit Courses in alignment with guidelines of University Grants Commission.
- Introduction of semester-long industry internship in the 7<sup>th</sup> and 8<sup>th</sup> semester as part of the Scheme 2.
- Introduction of semester/year-long startup scheme to provide credit to students who engage in meaningful entrepreneurial pursuits leading to establishing a startup venture as part of the scheme 2.

The semester wise course scheme along with percentage of curriculum changed in those courses is give below in Table 3 and Table 4:

**Semester 7 (Scheme-1)**

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Total Marks	%age Change in Syllabus
1	EE-704	Professional Industrial Training /Internship	Summer Internship	4	0	0	0	150	100%

Note: Students are required to complete the professional industrial training / Internship during summer semester breaks

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
								Sessional	Final Exam	Total	
1	EE-701	Professional Elective 1	PEC	3	2	1	0	50	100	150	100%
2	EE-702	Professional Elective 2	PEC	3	2	1	0	50	100	150	100%
3	EE-703	Professional Elective 3* (SWAYAM/NPTEL MOOC/any other Platform)	MCC*	3	0	0	0	-	100	100	100%



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4	OEC-701	Open Elective	OEC	3	3	0	0	50	100	150	100%	
5	EE-705	Seminar	PEC	2	0	0	4	100	-	100	100%	
6	EE-711	Minor Project	PROJ	3	0	0	6	100	150	250	100%	
7	NCC-701	Essence of Indian Knowledge and Tradition	NCC	0	0	0	2	Satisfactory/ Not Satisfactory		S/NS*		
Total				21*	21						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.

\*Note: Summer Internship Credits/Marks are also added in this semester's marks sheet.

**Semester - 7 (Scheme-2)**

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus	
								Mid Semester	Final	Total		
1	PII-701	Industry Internship-I/Startup Scheme-I	Professional Industry Internship	15	0	0	30	350	500	850	100%	
2	EE-703	Professional Elective 3* (SWAYAM/NPTEL MOOC/any other Platform)	MCC*	3	0	0	0	-	100	100	100%	
3	EE-706	Professional Elective 4* (SWAYAM/NPTEL MOOC/ any other platform )	MCC*	3	0	0	0	-	100	100	100%	
Total				21*	30						1050*	

Table 3: Course Scheme of 7<sup>th</sup> Semester EE 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)**

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
								Sessional	Final Exam	Total	
1	EE-801	Professional Elective 1	PEC	3	2	1	0	50	100	150	100%
2	EE-802	Professional Elective 2	PEC	3	2	1	0	50	100	150	100%



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3	EE-803	Professional Elective 3* (SWAYAM/NPTEL MOOC/Any Other Platform)	MCC*	3	0	0	0	-	100	100	100%
4	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.

**Semester - 8 (Scheme-2)**

S. No.	Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in Syllabus
								Mid Semester	Final	Total	
1	PII-801	Industry Internship-II/Startup Scheme-II	Professional Industry Internship	15	0	0	30	300	600	900	100%
Total				15	30					900	

Table 4: Course Scheme of 8<sup>th</sup> Semester EE Department

**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
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) Hybrid and Electric Vehicles
2			(B) Artificial Intelligence Applications in Electrical Engineering
3			(C) Instrumentation and Biomedical Engineering
1	8	EE-801	(A) Fundamentals of Block chain Technology
2			(B) Soft Computing
3			(C) Cloud Computing and Services
1	8	EE-802	(A) UAVs and Drone Technology
2			(B) Wind and Solar Energy System
3			(C) Power Quality and FACTs



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**4. To recommend changes in the existing curriculum of 1<sup>st</sup> and 2<sup>nd</sup> semester - ECE & EE Programs.**

The committee members were apprised about the changes recommended in the existing curriculum of 1<sup>st</sup> and 2<sup>nd</sup> semester - ECE & EE Programs. These changes were made in response to feedback from both students and faculty, aiming to streamline the operational aspects of the timetable and course delivery. The following changes were recommended to Academic Council for approval by the Board Studies:

**Changes proposed in the curriculum of ECE Program:**

- 1-credit is proposed to be reduced from Introduction to C programming in the 1st semester and will be integrated into the Indian Constitution course that has been upgraded from a non-credit course to a one-credit course.
- The 1-credit Technical Communication Lab in the second semester is proposed to be withdrawn. Instead, the credit previously allocated to the lab will be integrated into the Technical Communication course, resulting in an enhancement to its credit value from 3 credits to 4 credits.

**Changes proposed in the curriculum of EE Program:**

- 1-credit is proposed to be reduced from Introduction to C programming in the 1st semester and will be integrated into the Indian Constitution course that has been upgraded from a non-credit course to a one-credit course.
- The 2-credit Technical Communication Lab in the second semester is proposed to be withdrawn. Instead, the credit previously allocated to the lab will be integrated into the Technical Communication course, resulting in an enhancement to its credit value from 3 credits to 5 credits.

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