MINUTES OF THE MEETING OF THE BOARD OF STUDIES

FOR B.Tech ECE and B.Tech EE Programs

MEETING No.: 4

DATE: 11th October 2024 TIME: 3:00 PM

The meeting was chaired by Prof. Ankur Gupta, Director, MIET and was held in an online mode. At the outset Prof. Gupta extended a warm welcome to all the new members of the Board of Studies. The agenda items, along with their descriptions and relevant annexures, were shared with the members on 5th October 2024 through email and were subsequently discussed.

Members present in the meeting:

1.	**Prof. Ankur Gupta** *Director, MIET*
2.	**Prof. Parveen Lehana** *Department of Electronics, University of Jammu*
3.	**Dr. Ravi Kant Saini** *Assistant Professor, EE, IIT, Jammu*
4.	**Dr. Anup Shukla** *Assistant Professor, EE, IIT, Jammu*
5.	**Mr. Manoj Gupta** *Assistant General Manager, Mitsubishi Electric India Pvt. Ltd.*
6.	**Prof. Sahil Sawhney** *School of Management, MIET*
7.	**Dr. Surbhi Sharma** *Head of the Department & Assistant Professor, ECE, MIET*
8.	**All Faculty Members** *ECE & EE Departments, MIET*

Note: Prof. Kumud Ranjan Jha, I/C Dean Faculty of Engineering, ECE, SMVDU, Katra and Dr. Zakir Hussain Rather, Associate Professor, Department of Energy Science and Engg., IIT, Bombay could not attend the meeting due to prior commitments.

1. **To formally welcome all the members of the newly reconstituted Board of Studies for the B.Tech ECE and B.Tech EE programs.**

   Prof. Gupta, Director, MIET welcomed the new members of the Board of Studies for the B.Tech ECE and B.Tech EE programs, MIET, constituted for the triennial period 2024-2027.

2. To confirm the minutes of the 3rd meeting of the Board of Studies - B.Tech ECE and B.Tech EE programs held on 22nd September 2023.

Resolved that the minutes of the 3rd meeting of the Board of Studies held on 22nd September 2023 and circulated to the esteemed members on 27th September 2023, be confirmed.

3. To formulate the curriculum for the 1st and 2nd semesters of the B.Tech EE programs for the 2024-28 batch and beyond.

Resolved that the syllabi for the 1st and 2nd semesters of the B.Tech EE programs for the 2024-28 batch and beyond be endorsed to the Academic Council for its approval.

The semester wise course scheme along with percentage of curriculum changed in the courses are given below in Table 1 and Table 2:

Semester 1

Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in syllabus
							Sessional	Final Exam	Total	
BSC-101	Engineering Mathematics-I	BSC	5	4	1	0	50	100	150	-
BSC-102	Engineering Physics	BSC	5	4	1	0	50	100	150	-
COM-101	Introduction to C Programming	ESC	5	4	1	0	50	100	150	-
HSMC-101	Design Thinking	HSMC	3	3	0	0	50	100	150	-
BSC-112	Engineering Physics Lab	BSC	1	0	0	2	50	0	50	-
COM-111	C Programming Lab	ESC	2	0	0	4	50	0	50	-
ESC -112	Electrical and Electronics Workshop	ESC	1	0	0	2	50	0	50	-
NCC-101	Induction Training	NCC	0	0	0	3	-	-	S/NS*	-
MCC-102	Indian Constitution	MCC	1	0	0	2	50	-	50	20%
Total			**23**	**31**					**800**	

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

*Note: S=Satisfactory, NS=Not Satisfactory, MCC=Mandatory Credit Course

Semester 2

Course Code	Course Name	Course Type	Cd	L	T	P	Marks			%age Change in syllabus
							Sessional	Final Exam	Total	
BSC-201	Engineering Mathematics-II	BSC	5	3	2	0	50	100	150	-
EE-201	Basic Electrical and Electronics Engineering	PCC	4	3	1	0	50	100	150	50%

ESC-202	Introduction to Programming with Python	ESC	4	3	1	0	50	100	150	100%
HSMC-201	Technical Communication	HSMC	3	2	1	0	50	100	150	-
EE-211	Basic Electrical and Electronics Engineering Lab	PCC	1	0	0	2	50	0	50	50%
ESC-212	Python Programming Lab	ESC	2	0	0	4	50	0	50	100%
COM-212	Business Process Automation with RPA Lab	ESC	2	0	0	4	50	0	50	-
NCC-201	Environment & Sustainability	NCC	0	2	0	0	-	-	S/NS *	-
			21	28					750	

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

Note*: S=Satisfactory, NS=Not Satisfactory

The detailed curriculum for 1st and 2nd semesters is attached as **Annexure I.**

4. To formulate the curriculum for the 3rd and 4th semesters of the B.Tech ECE program for the 2023-27 batch and beyond.

The members were apprised about the changes recommended in the existing curriculum of the 3rd and 4th semesters of the B.Tech ECE program for the 2023-27 batch and beyond based on the suggestions received from the students and faculty members to streamline the curriculum. The following changes were recommended to the Academic Council for approval:

Existing Curriculum	Changes Incorporated
3rd semester	
Placement Overview and Career Planning course is offered as a 2-credit course.	The Placement Overview and Career Planning course has been changed to an Audit Course.
NA	A 2-credit core elective course has been introduced as a MOOC which shall be delivered through the SWAYAM/NPTEL.
The curriculum includes the following specializations which are offered under Minor Degree Program: 1. Artificial Intelligence & Machine Learning 2. Cybers Security 3. IoT 4. Data Science 5. Cloud Computing	A new specialization, **Industry 4.0**, has been introduced under the Minor Degree Course. This specialization will include four courses offered from the 3rd to the 6th semester, each carrying 5 credits. The courses will focus on Factory Automation (3rd Sem), IoT & AI (4th Sem), VLSI(5th Sem), and Advanced Manufacturing Technology (6th Sem). The details of courses offered under this specialization are attached as Annexure III.

The curriculum includes a course titled "Electronic Devices and Circuits (ECE-301)"	Minor revisions have been made to the course Course outcomes and curriculum of the course based on faculty feedback . The changes have been highlighted in the attached curriculum.
4th semester	
Corporate Etiquette and Personality Development is offered as a 2-credit course	Corporate Etiquette and Personality Development has been changed to an Audit Course
NA	A 2-credit Open Elective Course has been introduced as a MOOC which shall be delivered through the SWAYAM/NPTEL.
The curriculum includes the following courses 1. Automation with PLC and SCADA (ECE-403) 2. Automation with PLC and SCADA Lab (ECE-413)	The courses have been renamed as: 1. Introduction to PLC and SCADA (ECE-403) 2. PLC and SCADA Lab (ECE-413)
The curriculum includes the following specializations which are offered under Minor Degree Program: 1. Artificial Intelligence & Machine Learning 2. Cybers Security 3. IoT 4. Data Science 5. Cloud Computing	A new specialization, **Industry 4.0**, has been introduced under the Minor Degree Course. This specialization will include four courses offered from the 3rd to the 6th semester, each carrying 5 credits. The courses will focus on Factory Automation (3rd Sem), IoT & AI (4th Sem), VLSI (5th Sem), and Advanced Manufacturing Technology (6th Sem). The details of courses offered under this specialization are attached as Annexure III.
The curriculum includes courses titled: 1. Microcontroller and Applications (ECE-401) 2. Analog & Digital Communication (ECE-402)	Minor revisions have been made to the course outcomes and curriculum of the courses, based on faculty feedback . The changes have been highlighted in the attached curriculum.

Table 3: Changes in the 3rd and 4th semesters Batch 2023-27

The detailed curriculum for the 3rd and 4th semesters, along with the Industry 4.0 Specialization Courses, are attached as **Annexure II** and **Annexure III.**

5. To formulate the curriculum for the 5th and 6th semesters of the B.Tech ECE program for the 2022-26 batch and beyond.

The members were apprised about the changes recommended in the existing curriculum of the 5th and 6th semesters of the B.Tech ECE program for the 2022-26 batch and beyond based on the suggestions received from the students and faculty members to streamline the curriculum. The following changes were recommended to the Academic Council for approval:

Existing Curriculum	Changes Incorporated
5th semester	
Placement Preparation-I is offered as a 2-credit course.	Placement Preparation-I has been changed to an Audit Course.

NA	A 2-credit Seminar Course has been introduced.
A 3-credit Open Elective-I course is offered.	A 3-credit Core Elective course has been introduced in place of the existing course . This course shall be delivered through SWAYAM/NPTEL
The curriculum includes courses titled: 1. Digital Signal Processing (ECE-502) 2. Microwave Devices and Systems (ECE-503)	Minor revisions have been made to the course outcomes and curriculum of the courses, based on faculty feedback . The changes have been highlighted in the attached curriculum.
6th semester	
Placement Preparation-II is offered as a 2-credit course.	Placement Preparation-I has been changed to an Audit Course.
A non-credit MOOC is offered	A 2-credit Core Elective course has been introduced in place of the existing course. This will be delivered through SWAYAM/NPTEL.
The curriculum includes courses titled: 1. Wireless and Mobile Communication (ECE-601) 2. VLSI Circuit Design (ECE-602) 3. Computer Networks (ECE-603) 4. Control Systems (ECE-604)	Minor revisions have been made to the course outcomes and curriculum of the courses, based on faculty feedback . The changes have been highlighted in the attached curriculum.

Table 4: Changes in the 5th and 6th semesters Batch 2022-26

The detailed curriculum for 5th and 6th semesters is attached as **Annexure IV.**

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