



NATIONAL INSTITUTE OF TECHNOLOGY MIZORAM

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

M.TECH COURSE STRUCTURE

SPECIALIZATION: POWER ELECTRONICS AND DRIVES

SEMESTERWISE CREDIT DISTRIBUTION:

Semester	1 st Semester	2 nd Semester	3 rd Semester	4 th Semester
Credit	36	36	18	22
Total credit = 112				

Prof. N. K. Kishore
IIT Kharagpur

Prof. A. Chakrabarti
IIST Shibpur

Prof. A. Chatterjee
Jadavpur University

Prof. B. K. Roy
NIT Silchar

Mr. S. Bhattacharya
DGM, Power Grid,
Aizawl

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NIT Mizoram

Dr. P. K. Biswas
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Mrs. K. De
NIT Mizoram

Mr. S. Majumder
NIT Mizoram

Mr. R. Kumar
NIT Mizoram

Mr. A. Bhattacharya
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Mr. S. Debnath
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Mrs. U. Das
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Mizoram

NATIONAL INSTITUTE OF TECHNOLOGY MIZORAM
Department of Electrical and Electronics Engineering
M.Tech Course structure
Specialization in Power Electronics and Drives

Semester-I

Sl No	Subject Code	Subject Name	Category	L-T-P	Credit
1.	EEL 2101	Advanced Power Electronics-I	DC	3-0-0	6
2.	EEL 2102	Modeling and Analysis of Electrical Machines	DC	3-0-0	6
3.	EEL 2103	Modern Control Systems	DC	3-0-0	6
4.	EEL 2104	Elective-I	DE	3-0-0	6
5.	EEL 2105	Elective-II	DE	3-0-0	6
6.	EEP 2101	Advanced Power Electronics Lab	DC	0-0-3	3
7.	EEP 2106	Modeling & Simulation Lab.	DC	0-0-3	3
		TOTAL		15-0-6	36

Semester-II

Sl No	Subject Code	Subject Name	Category	L-T-P	Credit
1.	EEL 2201	Advanced Power Electronics-II	DC	3-0-0	6
2.	EEL 2202	Advanced Electric Drives	DC	3-0-0	6
3.	EEL 2203	Elective-III	DE	3-0-0	6
4.	EEL 2204	Elective-IV	DE	3-0-0	6
5.	EEL 2205	Elective-V	DE	3-0-0	6
6.	EEP 2202	Advanced Electric Drives Lab	DC	0-0-3	3
7.	EET 2203	Seminar	DC		3
		TOTAL		15-0-3	36



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Semester-III

Sl No	Course Code	Course Title	Cat	L-T-P	Credit
1.	EET 2301	Project Phase-I	DC		18
		TOTAL			18

Semester-IV

Sl No	Subject Code	Subject Name	Category	L-T-P	Credit
1.	EET 2401	Project Phase-II	DC		22
		TOTAL			22

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List of Electives

Sl. No	Subject Name	Category	L-T-P	Credit
1	Renewable Energy Systems	DE	3-0-0	6
2	Soft Computing Techniques and Applications	DE	3-0-0	6
3	Optimization Techniques	DE	3-0-0	6
4	Advanced Microprocessor and Microcontroller	DE	3-0-0	6
5	Power Quality	DE	3-0-0	6
6	SCADA system and Applications	DE	3-0-0	6
7	HVDC Transmission	DE	3-0-0	6
8	Special Electrical Machines	DE	3-0-0	6
9	Modeling and Control of Power Electronic Converters	DE	3-0-0	6
10	Embedded System	DE	3-0-0	6
11	Power System Analysis and Dynamics	DE	3-0-0	6
12	Flexible AC Transmission Systems	DE	3-0-0	6
13	Advance Digital Signal Processing	DE	3-0-0	6

DC: Departmental Core

DE: Departmental Elective


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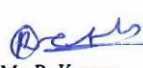

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