

**STUDY & EVALUATION SCHEME**  
**M.TECH: ELECTRICAL ENGINEERING (PT)**  
**SPECIALIZATION: POWER ELECTRONICS AND ELECTRIC DRIVES**  
**I YEAR: I SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	MHU1001P	Technical Communication	2	0	0	40	60	100	2
2	MEE1004P	Industrial Power Electronics	4	2	0	40	60	100	5
3	MEE1003P	Electric Drives	4	2	0	40	60	100	5
<b>PRACTICAL/TRAINING/PROJECT</b>									
4	MEE1502P	Power Electronics Lab	0	0	2	80	20	100	1
<b>TOTAL</b>			<b>10</b>	<b>4</b>	<b>2</b>	<b>200</b>	<b>200</b>	<b>400</b>	<b>13</b>

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S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	MHU2001P	Professional Ethics	2	0	0	40	60	100	2
2	MEE2004P	Advanced Power Electronics	4	2	0	40	60	100	5
3	MEE2003P	Advance Electrical Drive Systems	4	2	0	40	60	100	5
<b>PRACTICAL/TRAINING/PROJECT</b>									
4	MEE 2502P	Advance Electric Drives Lab	0	0	3	80	20	100	2
<b>TOTAL</b>			<b>10</b>	<b>4</b>	<b>3</b>	<b>200</b>	<b>200</b>	<b>400</b>	<b>14</b>

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**II YEAR: III SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	MEE3004P	Modeling & Analysis of Electrical Machines	4	2	0	40	60	100	5
2	MEE3005P	Control Techniques in Power Electronics	4	2	0	40	60	100	5
3	MEE3006P	Modeling & Simulation of Power Electronics Systems	4	2	0	40	60	100	5
<b>PRACTICAL/TRAINING/PROJECT</b>									
4	MEE3501P	Power Electronics Simulation Lab	0	0	2	80	20	100	1
<b>TOTAL</b>			<b>12</b>	<b>6</b>	<b>2</b>	<b>200</b>	<b>200</b>	<b>400</b>	<b>16</b>

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**II YEAR: IV SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	---	Elective-I	4	2	0	40	60	100	5
2	---	Elective-II	4	2	0	40	60	100	5
<b>PRACTICAL/TRAINING/PROJECT</b>									
3	MEE4501P	Seminar/Minor Project	-	-	4	100	-	100	4
<b>TOTAL</b>			<b>8</b>	<b>4</b>	<b>4</b>	<b>180</b>	<b>120</b>	<b>300</b>	<b>14</b>

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**III YEAR: V SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>THEORY</b>									
1	----	Elective-III	4	2	0	40	60	100	5
<b>PRACTICAL/TRAINING/PROJECT</b>									
2	MEE5501P	Dissertation-I	-	-	6	100	-	100	6
<b>TOTAL</b>			<b>4</b>	<b>2</b>	<b>6</b>	<b>140</b>	<b>60</b>	<b>200</b>	<b>11</b>

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**III YEAR: VI SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>PRACTICAL/TRAINING/PROJECT</b>									
1	MEE 6502P	Comprehensive Viva	0	0	0	100	-	100	2
2	MEE 6501P	Dissertation-II	-	-	18	80	20	100	18
<b>TOTAL</b>			0	0	18	180	20	200	20
<b>GRAND TOTAL</b>			<b>44</b>	<b>20</b>	<b>36</b>	<b>1020</b>	<b>780</b>	<b>1800</b>	<b>88</b>

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**LIST OF ELECTIVES**

S. NO.	SUBJECT CODE	SUBJECT
<b>Elective-I (Semester-IV)</b>		
1	MEE4103P	Active Power Conditioning
2	MEE4104P	Microprocessor Controlled Electric Drives
3	MEE4105P	HVDC Systems
4	MMA4101P	Optimization Techniques
<b>Elective-II (Semester-IV)</b>		
1	MEE4201P	Switched Mode Power Converters
2	MEE4203P	Neural Network & Fuzzy Control
3	MEE4205P	Special Machine
4	MEE4206P	Digital Controllers Architecture and Interfacing
<b>Elective-III (Semester-V)</b>		
1	MEE5101P	Power Quality
2	MEE5102P	Power Electronics Applications in Renewable Energy Systems
3	MEE5105P	Electric Traction System
4	MEE5108P	Digital Signal Processing and its Applications