

STUDY & EVALUATION SCHEME
M.TECH: ELECTRICAL ENGINEERING(R)
SPECIALIZATION: ELECTRIC VEHICLE TECHNOLOGY
I YEAR: I SEMESTER

S. NO	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	MEE 1013	Fundamentals of Electric Motors	4	2	0	40	60	100	5
2	MEE 1014	Analog and Digital Electronic Circuits	4	2	0	40	60	100	5
3	MEE 1015	Control Systems and Instrumentation in Automotive Systems	4	2	0	40	60	100	5
4	MCS 1009	Artificial Intelligence and Algorithms	4	2	0	40	60	100	5
5	---	Elective-I	4	2	0	40	60	100	5
PRACTICAL/TRAINING/PROJECT									
6	MEE 1505	Microprocessors and Controllers Lab	0	0	2	80	20	100	1
TOTAL			20	10	2	280	320	600	26

L - Lecture
T - Tutorial
P - Practical
CIE - Continuous Internal Evaluation
ESE-End Semester Exam
C - Credit

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I YEAR: II SEMESTER

S. NO	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	MEE 2010	Power Electronics in Electric Vehicles	4	2	0	40	60	100	5
2	MEE 2011	Energy Storage Systems and Management	4	2	0	40	60	100	5
3	MEE 2012	EV Architecture and Systems	4	2	0	40	60	100	5
4	MEC 2011	Automotive Embedded Systems and Communication Protocols	4	2	0	40	60	100	5
5	---	Elective-II	4	2	0	40	60	100	5
PRACTICAL/TRAINING/PROJECT									
6	MEE 2506	Advanced Electrical Machines Lab	0	0	3	80	20	100	2
7	MCS 2510	IOT in Automotive Systems Lab	0	0	3	80	20	100	2
TOTAL			20	10	6	360	340	700	29

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II YEAR: III SEMESTER

S. NO	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	MEE 3001	Control of Electric Drives	4	2	0	40	60	100	5
2	---	Elective-III	4	2	0	40	60	100	5
PRACTICAL/TRAINING/PROJECT									
3	MEE 3501	Seminar/Minor Project	-	-	4	100	-	100	4
4	MEE 3502	Dissertation-I	-	-	6	100	-	100	6
TOTAL			8	4	10	280	120	400	20

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II YEAR: IV SEMESTER

S. NO	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
PRACTICAL/TRAINING/PROJECT									
1	MEE 4501	Dissertation-II	-	-	18	80	20	100	18
2	MEE4502	Comprehensive Viva	-	-	-	100	-	100	2
TOTAL			-	-	18	180	20	200	20
GRAND TOTAL			48	24	36	1100	800	1900	95

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LIST OF ELECTIVE SUBJECTS

S. NO	SUBJECT CODE	SUBJECT	SEMESTER
Elective -1			
1	MEC 1101	Microprocessors and Controllers	I
2	MCS1101	IOT in Automotive Systems	I
3	MEC 1102	Electronic System Design	I
Elective -2			
1	MEE 2100	Charging Systems and Infrastructure	II
2	MEE2110	Advanced Electrical Machines	II
3	MEE 2111	Automotive Testing and Certification	II
4	MEE 2112	Digital Manufacturing and Industry 4.0	II
Elective -3			
1	MEE 3111	Modeling and Simulation of EVs	III
2	MEE 3112	Automotive Systems and Safety	III
3	MEE 3113	Electromagnetic Interference and Electromagnetic Compatibility	III