Faculty of Engineering, School of Electrical Electronics and Communication Engineering
Department of Electrical Engineering
Degree: B. Tech. Electrical & Electronics Engineering   Total Credit: 160

	Third Semester	L	T	P	C		Fourth Semester	L	T	P	C
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
MAS21XX	Statistics & Probability	3	0	0	3	MEE22XX	Engineering Economics	3	0	0	3
MBB21XX	Management of Technology	3	0	0	3	EEE2201	Sensors & Sensor Circuits	3.	1	0	4
EEE2101	Analog & Digital Systems	3	1	0	4	EEE2202	Generation, Transmission & Distribution	3	1	0	4
EEE2102	Electrical Machines	3	1	0	4	EEE2220/ EEE2221	Object Oriented Programming/ Microcontroller based Systems Design	3	1	0	4
EEE2103	Networks & Systems	3	1	0	4	EEE22XX	Program Elective 1	3	0	0	3
EEE2120/ EEE2121	Electrical Vehicle Technology/ Electromagnetic Field Theory	3	1	0	4	EEE00XX	Open Elective 1	3	0	0	3
EEE2130	Electrical Machinery Lab	0	0	2	1	EEE2230	Virtual Instrumentation Lab	0	0	2	1
EEE2131	Analog & Digital Systems Lab	0	0	2	1	EEE2231	Microcontroller Lab	0	0	2	1
EEE2170	Project-based Learning 1	0	0	2	1	EEE2270	Project-based Learning 2	0	0	2	1
		18	4	6	25			18	3	6	24
	Total Contact Hours (L+T+P)	28					Total Contact Hours (L+T+P)	27			

	Fifth Semester	L	T	P	C		Sixth Semester	L	T	P	C
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
EEE3101	Power Electronics	3	1	0	4	EEE3201	Control Systems	3	1	0	4
EEE3102	Modern Power Systems	3	1	0	4	EEE32XX	Program Elective 4	3	0	0	3
EEE3120/ EEE3121	Renewable Energy Systems/ Soft Computing Techniques	3	1	0	4	EEE32XX	Program Elective 5	3	0	0	3
EEE31XX	Program Elective 2	3	0	0	3	EEE32XX	Program Elective 6	3	0	0	3
EEE31XX	Program Elective 3	3	0	0	3	EEE00XX	Open Elective 3	3	0	0	3
EEE00XX	Open Elective 2s	3	0	0	3	EEE3230	Professional Practice	0	0	2	1
EEE3130	Power Electronics Lab	0	0	2	1	EEE3231	Control & Automation Lab	0	0	2	1
EEE3131	Power Systems Lab	0	0	2	1	EEE3232	Advance Systems Simulation Lab	0	0	2	1
EEE3170	Project-based Learning 3	0	0	2	1	EEE3270	Project-based Learning 4	0	0	6	3
		18	3	6	24			15	1	12	22
	Total Contact Hours (L+T+P)	27					Total Contact Hours (L+T+P)	28			

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Code	**Seventh Semester**	L	T	P	C	Code	**Eighth Semester**	L	T	P	C
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
EEE41XX	Program Elective 7	3	0	0	3	EEE4270	Major Project	0	0	24	12
EEE41XX	Program Elective 8	3	0	0	3						
EEE00XX	Open Elective 4	3	0	0	3						
EEE00XX	Open Elective 5	3	0	0	3						
EEE4170	Internship (Industry or Research)	0	0	2	1						
		12	0	2	13			0	0	24	12
	Total Contact Hours (L+T+P)	**14**					**Total Contact Hours (L+T+P)**	**24**			

Flexi Core		
Flexi Core 1 (III Sem)	**Flexi Core 2 (IV Sem)**	**Flexi Core 3 (V Sem)**
EEE2120: Electrical Vehicle Technology **EEE2121:** Electromagnetic Field Theory	**EEE2220:** Object Oriented Programming **EEE2221:** Microcontroller based Systems Design	**EEE3120:** Renewable Energy Systems **EEE3121:** Soft Computing Techniques

Program Electives			
IV Sem	**V Sem**	**VI Sem**	**VII Sem**
Example - PE1 • **EEE2240:** Solar Photovoltaic systems • **EEE2241:** Engineering Systems Modelling • **EEE2242:** Internet of Things	**Example - PE2** • **EEE3140:** Industrial Automation • **EEE3141:** Graph Theory & Applications • **EEE3142:** Energy and Power Optimization **Example - PE3** • **EEE3143:** Digital Signal Processing • **EEE3144:** Intelligent Systems • **EEE3145:** Distributed Energy Resources	**Example - PE 4** • **EEE3240:** Data Analytics • **EEE3241:** Sensor & Actuator • **EEE3242:** Industrial Robot operating Systems **Example - PE5** • **EEE3243:** AI and Machine Learning • **EEE3244:** Power System Operation & Control • **EEE3245:** Solid State Drives **Example - PE6** • **EEE3246:** Communications Systems • **EEE3247:** Industrial Control Systems	**Example - PE 7** • **EEE4140:** Switch Gear & Protection • **EEE4141:** Power System Optimization • **EEE4142:** Decision Techniques and Optimization **Example - PE8** • **EEE4143:** Microgrid • **EEE4144:** Demand Side Management • **EEE4145:** Energy Audit and Management

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		• **EEE3248:** Energy Storage Devices	

Open Electives	
Graded OE	**Non-Graded OE**
OE1 EEE0001: Fundamentals of Electric Vehicle **OE2 EEE0002:** Fundamentals of Solar PV Systems **OE3 EEE0003:** Battery Management Systems **OE4 EEE0004:** Renewable Energy Systems **OE5 EEE0005:** Energy Auditing & Management	OE1 EEE0051: Course Name OE2 EEE0052: Course Name OE3 EEE0052: Course Name OE4 EEE0052: Course Name OE5 EEE0052: Course Name