

Electrical & Electronics Engineering									
B.Tech. 2nd Year Course Structure									
3rd Semester									
Sl No	Type of Course	Subject Code	Subject Name	L	T	P	S	Total Contact Hours	Credit Points
Theory									
1	Basic Science Course	BSM301	Mathematics -III	3	0	0		3	3
2	Professional Core Courses	PCEEE301	Electric Circuit theory	3	0	0		3	3
3	Professional Core Courses	PCEEE302	Analog Electronics	3	0	0		3	3
4	Professional Core Courses	PCEEE303	Electromagnetic field theory	3	0	0		3	3
5	Professional Core Courses	PCEEE304	Semiconductor Fabrication and Design	3	0	0		3	3
6	Mandatory Courses	MCEEE371	Indian Constitution	2	0	0		2	0
7	Humanities and social sciences including Management	ESEP301	Essential Studies For Engineering Professionals III	2	0	0		2	2
PRACTICAL									
8	Professional Core Courses	PCEEE391	Electric Circuit Theory Laboratory	0	0	2		2	1
9	Professional Core Courses	PCEEE392	Analog Electronics Laboratory	0	0	2		2	1
10	Professional Core Courses	PCEEE393	Semiconductor Fabrication and Design laboratory	0	0	2		2	1
11	Engineering Sciences	ESEEE391	Data Structure & Algorithms Laboratory	0	0	2		2	1
SESSIONAL									
12	Project. Seminar and Industrial Training	PWEEE01	Mini Project I	0	0		2	2	1
Value Added Courses									
13	Massive Open Online Courses (MOOCs)	MOOCS	Massive Open Online Courses (MOOCs)						
14	Industry and Foreign Certification (IFC)	IFC	Industry and Foreign Certification (IFC)						
15	Mandatory Additional Requirements (MAR)	MAR381	Mandatory Additional Requirements (MAR)						
Total Credit Points of Semester				19	0	8	2	29	22

Electrical & Electronics Engineering									
B.Tech. 2nd Year Course Structure									
4th Semester									
Sl No	Type of Course	Subject Code	Subject Name	L	T	P	S	Total Contact Hours	Credit Points
Theory									
1	Basic Science Course	BSM401	Mathematics IV	3	0	0		3	3
2	Professional Core Courses	PCEEE401	Electric Machine-I	3	1	0		4	3
3	Professional Core Courses	PCEEE402	Digital Electronic	3	0	0		3	3
4	Professional Core Courses	PCEEE403	Electrical & Electronic Measurement	3	0	0		3	3
5	Professional Core Courses	PCEEE404	Signals & Systems	3	0	0		3	3
6	Mandatory Courses	MCC 471	Sustainability Climate Action and Environmental Sciences	2	0	0		2	2
7	Humanities and social sciences including Management	ESEP401	Essential Studies For Engineering Professionals IV	2	0	0		2	2
PRACTICAL									
8	Professional Core Courses	PCEEE491	Electric Machine-I Laboratory	0	0	2		2	1
9	Professional Core Courses	PCEEE492	Digital Electronics Lab	0	0	2		2	1
10	Professional Core Courses	PCEEE493	Electrical & Electronic Measurement	0	0	2		2	1
SESSIONAL									
11	Open Elective Courses	OEEE481	A: Object Oriented Programming & Java Lab B: Programming using Python Lab	0	0	0	2	2	1
12	Project, Seminar and Industrial Training	PWEEE02	Mini Project II				1	1	1
Value Added Courses									
13	Massive Open Online Courses (MOOCs)	MOOCS	Massive Open Online Courses (MOOCs)						
14	Industry and Foreign Certification (IFC)	IFC	Industry and Foreign Certification (IFC)						
15	Mandatory Additional Requirements (MAR)	MAR481	Mandatory Additional Requirements (MAR)						

Total Credit Points of Semester				19	1	6	3	29	24
Electrical & Electronics Engineering									
B.Tech. 3rd Year Course Structure									
5th Semester									
Sl No	Type of Course	Subject Code	Subject Name	L	T	P	S	Total Contact	Credit Points
Theory									
1	Professional Core Courses	PCEEE501	Electric machine-II	3	0	0		3	3
2	Professional Core Courses	PCEEE502	Power System-I	3	0	0		3	3
3	Professional Core Courses	PCEEE503	Control system	3	0	0		3	3
4	Humanities and social sciences including Management	PCEEE504	Power Electronics	3	0	0		3	3
5	Professional Elective Courses	PEEE571	A: Electric Vehicles B: Renewable & Non Conventional Energy	3	0	0		3	3
6	Open Elective Courses	OEEE501	A: AI & Machine Learning/ B: Computer Organization/	3	0	0		3	3
7	Humanities and social sciences including Management	ESEP501	Essential Studies For Engineering Professionals V	2	0	0		2	2
PRACTICAL									
8	Professional Core Courses	PCEEE591	Electric Machine Laboratory-II	0	0	2		2	1
9	Professional Core Courses	PCEEE592	Control System Lab	0	0	2		2	1
10	Professional Core Courses	PCEEE593	Power Electronics Lab	0	0	2		2	1
11	Professional Elective Courses	PEEE591	A: Electric Vehicles Lab/ B: Renewable Lab & Non Conventional Energy	0	0	2		2	1
SESSIONAL									
12	Project, Seminar and Industrial Training	PWEEE03	Mini Project III				0	1	1
Value Added Courses									
13	Massive Open Online Courses (MOOCs)	MOOCS	Massive Open Online Courses (MOOCs)						
14	Industry and Foreign Certification (IFC)	IFC	Industry and Foreign Certification (IFC)						
15	Mandatory Additional Requirements (MAR)	MAR581	Mandatory Additional Requirements (MAR)						
Total Credit Points of Semester				20	0	8	0	29	25

Electrical & Electronics Engineering									
B.Tech. 3rd Year Course Structure									
6th Semester									
Sl No	Type of Course	Subject Code	Subject Name	L	T	P	S	Total Contact	Credit Points
Theory									
1	Professional Core Courses	PCEEE601	Power System-II	3	0	0		3	3
2	Professional Core Courses	PCEEE602	Microprocessor & Microcontroller	3	1	0		4	3
3	Professional Core Courses	PCEEE603	Analog and Digital Communication	3	1	0		4	3
4	Professional Core Courses	PCEEE604	VLSI Design	3	0	0		3	3
5	Professional Elective Courses	PEEE 602	A: Digital Signal Processing/ B: Bio-Medical Engineering/	3	0	0		3	4
	Professional Elective Courses	PEC602	Automotive	3	0	0		3	
6	Open Elective Courses	OEEE 601	A: IOT/ B: Image Processing	3	0	0		3	3
7	Humanities and social sciences including Management	ESEP601	Essential Studies For Engineering Professionals VI	2	0	0		2	2
PRACTICAL									
8	Professional Core Courses	PCEEE691	Power System-II Laboratory	0	0	2		2	1
9	Professional Core Courses	PCEEE692	Microprocessor & Microcontroller Laboratory	0	0	2		2	1
10	Professional Elective Courses	PCEEE693	Analog and Digital Communication Laboratory	0	0	2		2	1
SESSIONAL									
11	Project, Seminar and Industrial Training	PWEEE04	Mini Project IV				1	1	1
Value Added Courses									
12	Massive Open Online Courses (MOOCs)	MOOCS	Massive Open Online Courses (MOOCs)						
13	Industry and Foreign Certification (IFC)	IFC	Industry and Foreign Certification (IFC)						
14	Mandatory Additional Requirements (MAR)	MAR681	Mandatory Additional Requirements (MAR)						
Total Credit Points of Semester				23	2	6	1	32	25

Electrical & Electronics Engineering									
B.Tech. 4th Year Course Structure									
7th Semester									
Sl No	Type of Course	Subject Code	Subject Name	L	T	P	S	Total Contact	Credit Points
Theory									
1	Humanities and social sciences including Management	HMEEE701	Economics for Engineers	3	0	0		3	3
2	Professional Elective Courses	PEEE701	A.Power System Dynamics and Control/ B.Antennas and Propagation	3	0	0		3	3
3	Open Elective Courses	OEEE701	A.Embedded System/ B.Nano Electronics	3	0	0		3	3
4	Open Elective Courses	OEEE702	A.Computer Networks/ B.Wavelet Transforms	3	0	0		3	3
5	Humanities and social sciences including Management	ESEP701	Essential Studies For Engineering Professionals VII	0	0	2		2	2
SESSIONAL									
6	Project. Seminar and Industrial Training	PWEEE781	Project stage-I				6	6	2
7	Project. Seminar and Industrial Training	INP781	Internship I						4
Value Added Courses									
8	Massive Open Online Courses (MOOCs)	MOOCS	Massive Open Online Courses (MOOCs)						
9	Industry and Foreign Certification (IFC)	IFC	Industry and Foreign Certification (IFC)						
10	Mandatory Additional Requirements (MAR)	MAR781	Mandatory Additional Requirements (MAR)						
Total Credit Points of Semester				12	0	2	6	20	20

Electrical & Electronics Engineering									
B.Tech. 4th Year Course Structure									
8th Semester									
Sl No	Type of Course	Subject Code	Subject Name	L	T	P	S	Total Contact	Credit Points
Theory									
1	Professional Elective Courses	PEEE801	A. Fiber Optic Communications/ B. Mobile Communication and Networks	3	0	0		3	3
2	Open Elective Courses	OEEE801	A. Database Management Systems/ B. Cyber Security	3	0	0		3	3
3	Humanities and social sciences including Management	ESEP801	Essential Studies For Engineering Professionals VIII	0	0	2		2	2
SESSIONAL									
4	Project. Seminar and Industrial Training	PWEEE881	Project stage-II				8	8	4
5	Project. Seminar and Industrial Training	PWEEE882	Grand Viva				0	0	2
6	Project. Seminar and Industrial Training	INP881	Internship II						4
Value Added Courses									
7	Massive Open Online Courses (MOOCs)	MOOCS	Massive Open Online Courses (MOOCs)						
8	Industry and Foreign Certification (IFC)	IFC	Industry and Foreign Certification (IFC)						
9	Mandatory Additional Requirements (MAR)	MAR881	Mandatory Additional Requirements (MAR)						
Total Credit Points of Semester				6	0	2	8	16	18