

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	Credit Points
Theory									
1	Basic Science Course	BSM301	Mathematics -III	3	0	0		3	3
2	Professional Core Courses	PCCEEE301	Electric Circuit theory	3	0	0		3	3
3	Professional Core Courses	PCCEEE302	Analog Electronic	3	0	0		3	3
4	Professional Core Courses	PCCEE303	Electromagnetic field theory	3	0	0		3	3
5	Professional Core Courses	PCCEEE304	Signals & Systems	3	0	0		3	3
6	Mandatory Courses	HSMCEE301	Indian Constitution	2	0	0		2	0
7	Humanities and social sciences including Management	ESP301	Essential Studies For Professionals III	2	0	0		2	0.5
PRACTICAL									
8	Professional Core Courses	PCCEEE391	Electric Circuit Theory Laboratory	0	0	2		2	1
9	Professional Core Courses	PCCEEE392	Analog Electronic Laboratory	0	0	2		2	1
10	Professional Core Courses	PCCEEE393	Data Structure & Algorithms Laboratory	0	0	2		2	1
SESSIONAL									
11	Humanities and social sciences including Management	SDP381	Skill Development For Professionals III	0	0		2	2	0.5
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	6	4	29	20

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	Credit Points
Theory									
1	Basic Science Course	BSM401	Mathematics IV	3	0	0		3	3
2	Professional Core Courses	PCC-EEE 401	Electric Machine-I	3	1	0		4	3
3	Professional Core Courses	PCC-EEE 402	Digital Electronic	3	0	0		3	3
4	Professional Core Courses	PCC-EEE 403	Electrical & Electronic Measurement	3	0	0		3	3
5	Professional Core Courses	PCC-EEE 404	CMOS Design	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	ESP401	Essential Studies For Professionals IV	2	0	0		2	0.5
PRACTICAL									
8	Professional Core Courses	PCC-EEE 491	Electric Machine-I Laboratory	0	0	2		2	1
9	Professional Core Courses	PCC-EEE 492	Digital Electronic Lab	0	0	2		2	1
10	Professional Core Courses	PCC-EEE 493	Electrical & Electronic Measurement	0	0	2		2	1
SESSIONAL									
11	Open Elective Courses	OEC-EEE481	A: Object Oriented Programming & Java Lab B: Programming using Python Lab	0	0	0	2	2	1
12	Humanities and social sciences including Management	SDP481	Skill Development For Professionals IV				2	2	0.5
13	Project, Seminar and Industrial Training	PW-EEE 02	Mini Project II				1	1	1
Value Added Courses									
14	Massive Open Online Courses (MOOCs)	MOOCS	Massive Open Online Courses (MOOCs)						
15	Industry and Foreign Certification (IFC)	IFC	Industry and Foreign Certification (IFC)						
16	Mandatory Additional Requirements (MAR)	MAR481	Mandatory Additional Requirements (MAR)						
Total Credit Points of Semester				19	1	6	5	31	23

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 Hours	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	PEEEE571	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/ Industrial Automation I C:	3	0	0		3	3
7	Humanities and social sciences including Management	ESPEE501	Essential Studies For Professionals V	2	0	0		2	0.5
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 Lab	0	0	2		2	1
SESSIONAL									
12	Humanities and social sciences including Management	SDP581	Skill Development For Professionals V				2	2	0.5
13	Project, Seminar and Industrial Training	PWEEE03	Mini Project III				0	1	1
Value Added Courses									
14	Massive Open Online Courses (MOOCs)	MOOCS	Massive Open Online Courses (MOOCs)						
15	Industry and Foreign Certification (IFC)	IFC	Industry and Foreign Certification (IFC)						
16	Mandatory Additional Requirements (MAR)	MAR581	Mandatory Additional Requirements (MAR)						
Total Credit Points of Semester				20	0	8	2	31	24

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	PCEEE671	VLSI Design	3	0	0		3	3
5	Professional Elective Courses	PEEE 601	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 C:Industrial Automation II	3	0	0		3	3
7	Humanities and social sciences including Management	ESPEE601	Essential Studies For Professionals VI	2	0	0		2	0.5
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	Humanities and social sciences including Management	SDP681	Skill Development For Professionals VI				2	2	0.5
12	Project, Seminar and Industrial Training	PWEEE04	Mini Project IV				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)	MAR681	Mandatory Additional Requirements (MAR)						
Total Credit Points of Semester				23	2	6	3	34	24

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	ESPEE701	Essential Studies For Professionals VII	0	0	2		2	0.5
SESSIONAL									
6	Project. Seminar and Industrial Training	PWEEE781	Project stage-I				6	6	2
7	Project. Seminar and Industrial Training	INP781	Internship I						4
8	Humanities and social sciences including Management	SDP781	Skill Development For Professionals VII				2	2	0.5
Value Added Courses									
9	Massive Open Online Courses (MOOCs)	MOOCS	Massive Open Online Courses (MOOCs)						
10	Industry and Foreign Certification (IFC)	IFC	Industry and Foreign Certification (IFC)						
11	Mandatory Additional Requirements (MAR)	MAR781	Mandatory Additional Requirements (MAR)						
Total Credit Points of Semester				12	0	2	8	22	19

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	ESP801	Essential Studies For Professionals VIII	0	0	2		2	0.5
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
7	Humanities and social sciences including Management	SDP881	Skill Development For Professionals VIII –VI				2	2	0.5
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)	MAR881	Mandatory Additional Requirements (MAR)						
Total Credit Points of Semester				6	0	2	10	18	17