

B. Tech. Year I, Sem I Evaluation Scheme

Subject Code	Subject Name				Category	Teaching Scheme (Hours)				Credits	Theory Marks	
	Tutorial/ Practical		Marks			Total Marks		Term work (TW)			Marks	
AICTE	CBSE	Theory	Tutorial	Practical		ESE(E)	IA	CSE	Viva (V)	Term work (TW)		
AU0001	NATIONAL CADET CORPS**				MC		1	0	2	2	0	0
	0	0	0	0								
01CE1101	COMPUTER PROGRAMMING				MC	ESC	ES-UC	4	0	2	5	50
	30	20	25	25	150							
01EE1113	ELECTRICAL WORKSHOP				MC	LC-EE	ES-UC	0	0	2	1	0
	0	0	25	25	50							
01CR1103	VALUE EDUCATION				MC	NCC		2	0	0	0	0
	0	50	50	100								
01EE1111	BASICS OF ELECTRICAL ENGINEERING				MC	ESC	ES-UC	4	0	2	5	
	50	30	20	25	25	150						
01GS0103	INDIAN CONSTITUTION				MC	NCC		1	0	0	0	0
	0	0	0	0								
01GS1101	ENGINEERING PHYSICS				BSC	BS-UC		3	0	2	4	50
	20	25	25	150								30
01MA0106	CALCULUS				BSC	BS-UC		3	2	0	5	50
	25	25	150									30
01CR0105	VERBAL ABILITY – 1				MC	NCC		1	0	0	0	50
	0	0	50	100								0
Total	29		19	2	8	20	250	120	80	175	225	850

Core Courses

Serial No. Course name

- 1 Electrical Machines
- 2 Power System
- 3 Power Electronics
- 4 Renewable Energy

Elective Courses

Serial No. Course name

B. Tech. Year I, Sem II Evaluation Scheme

Subject Code	Subject Name	Category			Teaching Scheme (Hours)				Credits	Theory Marks		
		Tutorial/	Practical	Total	ESE(E)	IA	CSE	Viva (V)		Term work (TW)	Final	
01AU0102	NATIONAL CADET CORPS-2**	0	0	0	MC		1	0	2	2	0	
01EE1112	BASIC ELECTRONICS	25	25	150	ESC	ES-UC	3	0	2	4	50	30
01CR0104	PROFESSIONAL ETHICS	50	50	100	MC	NCC	1	0	0	0	0	0
01ME1101	BASICS OF MECHANICAL ENGINEERING	30	20	25	25	150	ESC	ES-UC	3	0	2	4
01EN1101	BASICS OF ENVIRONMENTAL STUDIES	30	20	0	0	100	ESC	ES-UC	2	0	0	0
01MA0104	LINEAR ALGEBRA	25	25	150	BSC	BS-UC	3	2	0	5	50	30
01ME1103	ENGINEERING DRAWING	20	25	25	150	ESC	ES-UC	2	0	4	4	50
01SL0102	READING & WRITING FOR TECHNOLOGY*	0	30	20	25	25	100	HSMC	GN-UC	2	0	0
01SL0103	SPEAKING & PRESENTATION SKILLS*							HSMC	GN-UC			
01CR0106	VERBAL ABILITY – 2	0	50	100	MC	NCC	1	0	0	0	50	0
Total		29	17	2	10	19	300	180	120	175	225	1000

B. Tech. Year II, Sem III Evaluation Scheme

Subject Code	Subject Name	Category			Teaching Scheme (Hours)				Credits	Theory Marks			
		Tutorial/	Practical	Total	ESE(E)	IA	CSE	Viva (V)		Term work (TW)	Final		
01MA1303	Applied Mathematics for Electrical Engineering	5	50	30	20	25	25	150	BSC	BS-UC	3	2	0
01EE1301	Electrical Circuit Analysis	30	20	25	25	150	PCC-EE	PC	4	0	2	5	50
01EE1302	Analog and Digital Electronics	30	20	25	25	150	PCC-EE	PC	3	0	2	4	50

01EE1303	Electrical Machines-I	PCC-EE	PC	3	0	2	4	50	30				
20	25 25 150												
01EE1304	Electrical and Electronic Instruments	PCC-EE	PC	2	0	2	3						
50	30 20 25 25 150												
01SL1401	Communication Skill for Engineers	HSMC	GN-UC	2	0	0	2						
0	0 0 25 25 50												
01EE1305	Design Thinking and Problem Solving Skills	PROJ-EE	EE	0	0								
2	1 0 0 0 25 25 50												
01CR0303	Quantitative & Logical Ability – 1	MC	NCC	1	0	0	0						
50	0 0 0 0 50												
Total	30			18	2	10	24	300	150	100	175	175	900

Core Courses

Serial No. Course name

- 1 Electrical Machines
- 2 Power System
- 3 Power Electronics
- 4 Renewable Energy

B. Tech. Year II, Sem IV Evaluation Scheme

Subject Code	Subject Name	Category	Teaching Scheme (Hours)				Credits	Theory Marks		
			Tutorial/	Practical	Mark	Total Marks		Mark	Mark	
Theory	Tutorial	Practical	ESE(E)	IA	CSE	Viva (V)	Term work (TW)			
01EE1401	Power System-I	PCC-EE	PC	3	1	0	4	50	30	20
0	0	100								
01EE1402	Power Electronics	PCC-EE	PC	3	0	2	4	50	30	20
20	25	25	150							
01EE1403	Control System Engineering	PCC-EE	PC	4	0	2	5	50	30	20
30	20	25	150							
01EE1404	Field Theory	PCC-EE	PC	3	0	0	3	50	30	20
0	0	100								
01EE1405	Field Theory Lab	LC-EE	PC	0	0	2	1	0	0	0
0	25	25	50							

01EE0408	CREATIVITY, PROBLEM SOLVING AND INNOVATION						HSMC	GN-UC	2	0
0	2	50	30	20	0	0	100			
01CR0402	Quantitative & Logical Ability – 2					MC	NCC	1	0	0
50	0	0	0	0	50					
Open Elective*	OEC-EE	IEC	3	0	0	3	50	30	20	0
100										
Total	26	19	1	6	22	350	180	120	75	75
As per university policy										

Core Courses

Serial No. Course name

- 1 Electrical Machines
- 2 Power System
- 3 Power Electronics
- 4 Renewable Energy

B. Tech. Year II, Sem IV Evaluation Scheme

Subject Code	Subject Name	Category	Teaching Scheme (Hours)					Credits	Theory	Marks
			Tutorial/	Practical	Marks	Total Marks				
			ESE(E)	IA	CSE	Viva (V)	Term work (TW)			
01EE1401	Power System-I	PCC-EE	PC	3	1	0	4	50	30	20
0	0	100								
01EE1402	Power Electronics	PCC-EE	PC	3	0	2	4	50	30	20
20	25	25	150							
01EE1403	Control System Engineering	PCC-EE	PC	4	0	2	5	50	30	20
30	20	25	150							
01EE1404	Field Theory	PCC-EE	PC	3	0	0	3	50	30	20
0	0	100								
01EE1405	Field Theory Lab	LC-EE	PC	0	0	2	1	0	0	0
0	25	25	50							
01EE0408	CREATIVITY, PROBLEM SOLVING AND INNOVATION						HSMC	GN-UC	2	0
0	2	50	30	20	0	0	100			
01CR0402	Quantitative & Logical Ability – 2					MC	NCC	1	0	0
50	0	0	0	0	50					

Open Elective*	OEC-EE	IEC	3	0	0	3	50	30	20	0	0
100											
Total	26	19	1	6	22	350	180	120	75	75	800

B. Tech. Year III, Sem VI Evaluation Scheme

Subject Code	Subject Name	Category	Teaching Scheme (Hours)					Credits	Theory	Marks
			Tutorial/ Practical Marks		Total Marks					
Theory	Tutorial	Practical	ESE(E)	IA	CSE	Viva (V)	Term work (TW)			
01CR0602	Quantitative Aptitude and Verbal Ability	MC	NCC	1	0	0	0	0	0	0
50	0	0	0	0	50					
01EE1601	Solid State Drives	PCC-EE	PC	3	0	2	4	50	30	
20	25	25	150							
01EE1602	Microcontroller & Embedded Systems	PCC-EE	PC	3	0	2	4	2	4	
50	30	20	25	25	150					
01EE1603	Interconnected Power Systems	PCC-EE	PC	4	0	2	5	50		
30	20	25	25	150						
01EE1604	MOOC/ SEMINAR	PROJ-EE	EE	0	0	4	2	0	0	
0	0	25	25	50						
Professional Elective-II	PEC-EE	PEC	3	0	0	3	50	30	20	0
0	100									
Institute Elective	OEC-EE	IEC	3	0	0	3	50	30	20	0
0	100									
Total	27	17	0	10	21	300	150	100	100	750

B. Tech. Year IV, Sem VII Evaluation Scheme

Subject Code	Subject Name	Category	Teaching Scheme (Hours)					Credits	Theory	Marks
			Tutorial/ Practical Marks		Total Marks					
Theory	Tutorial	Practical	ESE(E)	IA	CSE	Viva (V)	Term work (TW)			
01EE1701	Summer Internship	MC	NCC	0	0	0	0	0	0	0
0	0	0	0							
01EE1702	Mini Project	PROJ-EE	EE	0	0	4	2	0	0	
0	25	25	50							
01EE1703	Switchgear and Protection	PCC-EE	PC	3	0	2	4	50		
30	20	25	25	150						

01EE1704	Electrical Machine Design	PCC-EE	PC	3	0	0	3	50				
30	20	0	0	100								
01EE1705	Electrical Machine Design Laboratory	LC-EE	PC	0	0	2	1					
0	0	0	25	25	50							
01EE1711	DSP based control of Power Electronic Systems	LC-EE	PC	0	0	4						
2	0	0	0	25	25	50						
Professional Elective-III	PEC-EE	PEC	3	0	0	3	50	30	20	0		
0	100											
Professional Elective-IV	PEC-EE	PEC	3	0	0	3	50	30	20	0		
0	100											
Professional Elective-V	PEC-EE	PC	3	0	0	3	50	30	20	0		
0	100											
Total	27		15	0	12	21	200	120	80	75	75	550

Professional Elective – III

Subject Code Subject Name Group

01EE1706	Battery Chargers for Electric Vehicles	EV Group
01EE1707	Power Electronic Converters for RES	Renewable
01EE1708	Converter Control	Power Electronics
01EE1709	Power System Operation and Control	Power System
01EE1710	Power Quality Management	Power Electronics
01EE1711	Restructured Power System	Power System

Professional Elective – IV

Subject Code Subject Name Group

01EE1712	Special Machines for Electric Vehicles	EV Group
01EE1713	Control Algorithms for PV and Wind Energy Systems	Renewable
01EE1714	High Power Converter and Semiconductor Devices	Power Electronics
01EE1715	FACTS & HVDC	Power System
01EE1716	Smart Grid	Power System

Professional Elective – V

Subject Code Subject Name

01EE1717	Industrial Automation
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01EE1718 Advance control system

01EE1719 Energy Audit

B. Tech. Year IV, Sem VIII

Evaluation Scheme

Subject Code	Subject Name	Category	Teaching Scheme (Hours)						Credits	Theory Marks			
			Tutorial/	Practical	ESE(E)	IA	CSE	Viva (V)		Term work (TW)	Total Marks		
01EE1801	Project	PROJ-EE	100	100	200	EE	0	0	30	15	0	0	0
Total	30	0	0	30	15	0	0	0	100	100	200		