

DEPARTMENT OF ELECTRICAL ENGINEERING

**SCHEME FOR B. TECH. (Electrical Engineering)
(Revised December 2020)**

Third Semester:

Course Number	Subject	Scheme of Studies Periods per week			Total Credits
		L	T	P	
MTH 3301	Mathematics-3	3	1	-	4
EE 3302	Fundamental of Design methods	3	-	-	3
EE 3303	Electrical Materials and Fields	3	-	-	3
EE 3304	EMEC-I	3	-	-	3
EE 3305	Network Analysis	3	1	-	4
EE 3306	EMEC-I Lab	-	-	2	1
EE 3307	Network Lab	-	-	2	1
EE 3308	Project Based Lab/ Design	-	2	-	2
EE 3309	Professional Practice-1	-	1	-	1
Total Hours = 24		15	5	4	22
Total Credits (Cumulative)					67

Fourth Semester:

Course Number	Subject	Scheme of Studies Periods per week			Total Credits
		L	T	P	
EE 3401	Power System	3	1	-	4
HUM 3402	Fundamentals of Entrepreneurship	3	-	-	3
EE 3403	Generation of Electrical Power	3	-	-	3
EE 3404	EMEC-II	3	1	-	4
EE 3405	Electronic Devices & Circuits	3	1	-	4
EE 3406	EMEC-II Lab	-	-	2	1
EE 3407	Electronics Lab	-	-	2	1
EE 3408	Project Based Lab/ Design	-	2	-	2
EE 3409	Professional Practice-2	-	1	-	1
Total Hours = 25		15	6	4	23
Total Credits (Cumulative)					90

Fifth Semester:

Course Number	Subject	Scheme of Studies Periods per week			Total Credits
		L	T	P	
ME 3501	Power Plant Engineering	3	1	-	4
CS 3502	Data Structures	3	1	-	4
MTH 3503	Mathematics-4	3	1	-	4
EE 3504	Measurements & Instrumentation	3	-	-	3
EE 3505	Power Electronics	3	-	-	3
EE 3506	Measurements & Instrumentation Lab	-	-	2	1
EE 3507	Power Electronics Lab.	-	-	2	1
EE 3508	Project Based Lab/ Design	-	2	-	2
EE 3509	Internship/Training/Tour	-	2	-	1
Total Hours = 26		15	7	4	23
Total Credits (Cumulative)					113

Sixth Semester:

Course Number	Subject	Scheme of Studies Periods per week			Total Credits
		L	T	P	
EE 3601	Project-1	-	-	4	2
EE 3602	Control System	3	1	-	4
EE 3603	Electrical Drives	3	1	-	4
EE 3604	Power System Protection & Fault Analysis	3	1	-	4
	Department Elective-1 (A)	3	1	-	4
ME 3605	Engineering Management	3	1	-	4
EE 3606	Control System Lab.	-	-	2	1
EE 3607	Power System-II Lab	-	-	2	1
Total Hours = 28		15	5	8	24
Total Credits (Cumulative)					137

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REVISED SCHEME FOR BATCH ADMITTED IN 2020

(49th Senate, Item S-49.2022-I-2.7)

Department of Electrical Engineering

B. Tech. (Electrical Engineering)

SEVENTH SEMESTER

Course Code	Course Name	Scheme of Studies Periods per week			Credits
		L	T	P	
HUM 3701	Engineering Economics & IPR	3	-	-	3
EE 3702	Power System Stability & Control	3	-	-	3
EE 3703	EMEC-III	3	-	-	3
	Department Elective-2 (A)	3	-	-	3
	Department Elective-3 (A)	3	-	-	3
	Open Elective-1 (C)	3	-	-	3
EE 3704	EMEC-III Lab	-	-	2	1
EE 3705	Project 2 Phase 1	-	1	2	2
EE 3706	Educational Tour & Training	-	-	2	1
Total Hours =27		18	1	6	22

EIGHTH SEMESTER

Course Code	Course Name	Scheme of Studies Periods per week			Credits
		L	T	P	
	Department Elective-4(A)	3	-	-	3
	Department Elective-5(A)	3	-	-	3
	Department Elective-6(A)	3	-	-	3
EE 3801 / EE 3802	Project 2 Phase 2 / Internship	-	-	12	6
EE 3803	General Proficiency	-	-	-	1
Total Hours =21		9	-	12	16

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LIST OF ELECTIVES

Group-A Department Electives	
EE 501 Electrical Machine Design EE 502 EHV AC & DC EE 503 Utilization of Electrical Energy EE 504 AI Techniques EE 505 Nonlinear & Digital Control System EE 506 Microprocessor and Microcontrollers EE 507 Power Quality EE 508 Reactive Power Control EE 509 DSP and it's Applications EE 510 Power System Deregulation EE 511 Smart Grids EE 512 Digital Electronics EE 513 Energy Management EE 514 Electrical Vehicle Technology EE 515 Renewable Energy System EE 516 Electronic Instrumentation EE 517 Solar PV Technology and Applications	EE 518 System Engineering EE 519 DC-DC Converters EE 520 IoT in Energy and Industry EE 521 Power System Reliability EE 522 Application of Power Electronics to Power System EE 523 Industrial Power System Design and Analysis. EE 524 Distribution System Automation EE 525 Power Electronics Applications to HVDC systems EE 526 Industrial Electronics EE 527 Electrical Distributed System Analysis EE 528 Power System Restructuring, Economics and Power Markets