

ELECTRICAL ENGINEERING

COURSE CURRICULUM FOR THE NEW PROGRAMME (B.Tech.) w.e.f. 2007 BATCH											
Semester I						Semester – II					
Course code	Course Name	Credit Structure				Course Code	Course Name	Credit Structure			
		L	T	P	C			L	T	P	C
CS 101	Computer Programming & Utilization	2	0	2	6	CH 103	Chemistry	2	1	0	6
EE 111	Introduction to Electrical Systems (DIC-I)	3	0	0	6	MA 106 And MA 108	Linear Algebra and Ordinary Differential Equations I	3 3	1 1	0 0	4 4
MA 105	Calculus	3	1	0	8						
PH 103	Electricity and Magnetism	2	1	0	6	EE 112	Introduction to Electronics (DIC-II)	3	0	0	6
ME 113	Workshop Practice	0	1	3	4	IC 102	Data Analysis and Interpretation	2	1	0	6
PH 117	Physics Lab	0	0	3	3	CH 117	Chemistry Lab.	0	0	3	3
NC 101#	National Cadet Corps (NCC)	0	0	0	P/NP	ME 119	Engineering Graphics and Drawing	0	1	3	5
NO 101#	National Sports Organization (NSS)	0	0	0	P/NP	NC 102#	National Cadet Corps (NCC)	0	0	0	P/NP
NS 101#	National Service Scheme (NSS)	0	0	0	P/NP	NO 102#	National Sports Organization (NSS)	0	0	0	P/NP
						NS 102#	National Service Scheme (NSS)	0	0	0	P/NP
					33						34
# Any one of these three P/NP courses						# Any one of these three P/NP courses					

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Semester III						
Course code	Course Name	Credit Structure				
		L	T	P	C	
MA 205 MA 207	Mathematics II (Complex Analysis + DE II)	3 3	1 1	0 0	4 4	
HS 101	Economics	3	0	0	6	
EE 225	Network Theory	2	1	0	6	
EE 207	Electronic Devices	2	1	0	6	
EE 236	Electronic Devices Lab	0	0	3	3	
IC 211	Experimentation and Measurements Lab	0	0.5	3	4	
					33	
COURSES FOR HONOR REQUIREMENT						
	Honors Elective E1	3	0	0	6	
COURSES FOR MINOR REQUIREMENT						
EE 221	Digital Electronics	2	1	0	6	

Semester –IV						
Course Code	Course Name	Credit Structure				
		L	T	P	C	
EE 210	Signals and Systems	2	1	0	6	
EE 204	Analog Circuits	2	1	0	6	
EE 222	Electrical Machines and Power Electronics	2	1	0	6	
EE 224	Digital Systems	2	1	0	6	
EE 230	Analog Lab	0	0	3	3	
EE 214	Digital Circuits Lab	0	0	3	3	
EE 234	Machines Lab	0	0	4	4	
					34	
COURSES FOR HONOR REQUIREMENT						
	Honors Elective E2	3	0	0	6	
COURSES FOR MINOR REQUIREMENT						
EE 232	Analog Electronics	2	1	0	6	

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ELECTRICAL ENGINEERING COURSE CURRICULUM FOR THE NEW PROGRAMME (B.Tech.) w.e.f. 2007 BATCH											
Semester VII						Semester –VIII					
Course code	Course Name	Credit Structure				Course Code	Course Name	Credit Structure			
		L	T	P	C			L	T	P	C
ES 200 And HS 200	Environmental Studies: Science and Engg	3	0	0	3		Institute Elective II	2	1	0	6
	And Environmental Studies	3	0	0	3						
	Institute Elective I	2	1	0	6		Dept./Open Elective III	3	0	0	6
	Dept. Elective I	3	0	0	6		Dept./Open Elective IV	3	0	0	6
	Dept. Elective II	3	0	0	6	EE 492	Dept. Elective V & Dept. Elective VI OR BTP II	3 3	0 0	0 0	6 6
EE 491	BTP - I	0	0	6	6						
					30						30
COURSES FOR HONOR REQUIREMENT						COURSES FOR HONOR REQUIREMENT					
	Honors Elective E5	2	1	0	6		Honors Elective E6	2	1	0	6
COURSES FOR MINOR REQUIREMENT						COURSES FOR MINOR REQUIREMENT					
	Power Electronics	2	1	0	6	EE 203	Electronic Devices	2	1	0	6

Elective List For B.Tech . Electrical Engineering

1. EE 429 Discrete Data and Digital Control
2. EE 442 Advanced Network Analysis
3. EE 420 Information Theory and Coding
4. EE 449 VLSI Technology
5. EE 318 Electronic Design Laboratory (6 CREDITS, 0 0 6 6)
6. EE 492 B. Tech Project – II (12 CREDITS)
7. EE 605 Error Correcting Codes
8. EE 606 Fibre Optic Communication
9. EE 609 Radiating Systems
10. EE 620 Physics of Transistors
11. EE 622 Optimal Control Systems
12. EE 634 Simulation of Circuits and Devices
13. EE 649 Finite Fields and their Applications
14. EE 446 Electric Drives I
15. EE 659 A First Course in Optimization
16. EE 660 Application of Power Electronics to Power Systems
17. EE 661 Physical Electronics
18. EE 666 High Power Semiconductor Devices
19. EE 440 Speech Processing
20. EE 701 Introduction to MEMS
21. EE 713 Circuit Simulation in Power Electronics
22. EE 714 Behavioral Theory of Systems
23. EE 722 Restructured Power Systems
24. EE 724 Nanoelectronics
25. EE 725 Computational Electromagnetics