Semester-I

Course Code	Course name	Contact Hours (L-T-P)	Credits
PHY 102	Physics-II Introduction to Engineering Electromagnetics	3-1-2	13
CY 101	Chemistry-I	2-1-2	10
MA 101	Engineering Maths- I	3-1-0	11
CSO 101	Computer Programming	3-1-2	13
ME 106	Manufacturing Practice-II	0-0-3	03
ME 104	Engineering Drawing	1-0-3	06
H 101	Universal Human Values - I: Self and Family	1-1-0	05
	Total	13-5-12	61
HL 101	Basic English	2-0-1	07
	Total	15-5-13	68
GY1	Elementary Physical Education #	0-1-3	05

Semester-II

Course Code	Course Name	Contact Hours (L-T-P)	Credits
MA 203	Mathematical Methods	3-1-0	11
MO 201	Material Science	3-1-0	11
EO 102	Fundamentals of Electronics & Instrumentation Engineering*	3-1-2	13
EE 101	Electrical Circuits and Measurement	3-1-2	13
ME 105	Manufacturing Practice – I	0-0-3	03
H 105	Philosophy#	2-1-0	08
H 106	Education & Self#		
	Total	14-5-7	59

05

^{*}Multicore subject offered by CSE Dept. to Mathematical Sciences

PE 102

Semester-III

Course Code	Course name	Contact Hours (L-T-P)	Credits
MA 201	Numerical Techniques	3-1-0	11
CMO 101	Basics of Mechanical Engineering	3-1-0	11
EO 201	Network Analysis & Synthesis	3-0-2	11
EE 221	DC Machines & Transformer	3-1-2	13
EE 261	Electrical Engineering Practice	1-0-3	05
H 103	Development of Societies#	2-1-0	08
H 104	History and Civilization#	2-1-0	
	Total	15-4-7	60
CP XXX	Music/Dance/Painting/Sculpture/Advertising		

Semester-IV

Course Code	Course Name	Contact Hours (L-T-P)	Credits
MA 202	Probability and Statistics	3-1-0	11
EE 241	Power Transmission & Distribution	3-1-2	13
EE 231	Power Electronic Devices & Converters	3-1-2	13
EE 211	Linear Control Systems	3-1-2	13
EE 272	Exploratory Project	0-0-5	05
H 102	Universal Human Value-II #	1-1-0	05
	Total	13-5-11	60

^{*}Multicore subject offered by CSE Dept. to Mathematical Sciences

Semester-V

Course Code	Course Name	Contact Hours (L-T-P)	Credits
EO 301	Digital Circuits & Systems*	3-0-2	11
EE 342	Power System Protection and Switchgear	3-0-2	11
EE 322	Synchronous and Induction Machines	3-0-2	11
OE-1	Open Elective-1	3-0-0	09
HU/LM	Humanities/Language & Management	3-0-0	09
	Total	15-0-6	51
EE 381	Stream Project (Hons.)	0-0-10	10

- *Multicore Subject offered by CSE to Math Sc.
- + Multicore Subject offered by Math Sc. to CSE
OE1: Graph Theory and Applications: To be taken by students opting for HPC&DE stream.
- +-: Multicore subjects for Math Sc and CSE
- ## Extra Stream Project to be carried out by Hons. Students in V Sem.

Semester-VI

Course Code	Course Name	Contact Hours (L-T-P)	Credits
EE 343	Power System Analysis & Control	3-0-2	11
EE 332	Analysis & Applications of Power Electronic Converters	3-0-2	11
EE 323	Condition Monitoring and energy conservation		
EE 312	Physical significance of Mathematical methods	3-0-0	09
EE 345	Artificial Intelligence		
EE 324	Analysis & Control of Electric Drives		
OE-2	OpenElective-2	3-0-0	09
EE 372	UG Project	0-0-10	10
HU/LM	Humanities/Language & Management\	3-0-0	09
	Total	15-0-14	59
EE 382	Stream Project (Hons.)	0-0-10	10

Semester-VII

Course Code	Course Name	Contact Hours (L-T-P)	Credits
EE 433	Converter Applications	3-0-2	11
EE 413	Digital Control System	3-0-0	0000
EE 446	EHV AC & DC Transmission	3-0-0	0909
EE 403	Energy Technologies	3-0-0	09
EE 404	Operations research		
OE-3	Open Elective-3	3-0-0	09
EE 471	UG Projec	0-0-10	10
	Total	15-0-12	57
EE 481	Stream Project (Hons.) @	0-0-20	20

Semester-VIII

Course Code	Course Name	Contact Hours (L-T-P)	Credits
EE 414	Optimal and Adaptive control System	3-0-0	
EE 427	Electric Utilization & Traction	3-0-0	09
EE 434	Design of Power Electronic Converters	3-0-0	
EE 415	Special Topics in Control Systems	3-0-0	09
EE 426	Semiconductor Controlled Drives	3-0-0	
OE-4	Open Elective-4	3-0-0	09
EE 492	Thesis work	0-0-10	10
HU/LM	#Humanities/Language & Management/^	3-0-0	09
	Total		46

Semester-IX

Course Code	Course name	Contact Hours (L-T-P)	Credits
OE-5	Open Elective-5	3-0-0	09
OE-6	Open Elective-6	3-0-0	09
EE 535	Advanced Power Electronics	3-0-0	09
EE 536	Al applications in Power Electronics		
HU/LM	#Humanities/Language & Management^^	3-0-0	09
EE 591	Thesis work	0-0-10	10
	Total	12-0-10	46

Semester-X

Course Code	Course Name	Contact Hours (L-T-P)	Credits
EE 592	Thesis work	0-0-50	50
	Total Credits	0-0-50	50