SCHEME OF INSTRUCTION & EXAMINATION

B.E. III – Semester

(ELECTRICAL AND ELECTRONICS ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	Pr/ Drg	Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1.	BS301MT	Engineering Mathematics – III	3	1	-	4	30	70	3	3
2.	ES322EC	Electronic Engineering-II	3	-	-	3	30	70	3	3
3.	ES323ME	Prime Movers & Pumps	3	-	-	3	30	70	3	3
4.	PC301EE	Electrical Circuits – I	3	1	-	4	30	70	3	3
5.	PC302EE	Electromagnetic Fields	3	1	-	4	30	70	3	3
6.	PC303EE	Digital Electronics & Logic Design	3	-	-	3	30	70	3	3
7.	MC916CE	Environmental Sciences	3	-	-	3	30	70	3	3
Practical / Laboratory Courses										
8.	ES361ME	Mechanical Engineering Lab.	-	-	2	2	25	50	3	1

9.	ES 362 EC	Electronic Engineering Lab	-	-	2	2	25	50	3	1
			21	**3**	**4**	**28**	**260**	**590**		**23**

SCHEME OF INSTRUCTION & EXAMINATION

B.E. IV – Semester

(ELECTRICAL AND ELECTRONICS ENGINEERING)

S. No.	**Course Code**	**Course Title**	**Scheme of Instruction**				**Scheme of Examination**			**Credits**
			L	**T**	**Pr/ Drg**	**Contact Hrs/Wk**	**CIE**	**SEE**	**Duration in Hrs**	
Theory Courses										
1.	BS401MT	Engineering Mathematics-IV	3	1	-	4	30	70	3	3
2.	PC401EE	Electrical Circuits - II	3	1	-	4	30	70	3	3
3.	PC402EE	Electrical Machines-I	3	1	-	4	30	70	3	3

4.	PC403EE	Power Systems-I	3	-	-	3	30	70	3	3
5.	PC404EE	Power Electronics	3	1	-	4	30	70	3	3
6.	PC405EE	Linear Integrated Circuits	3	-	-	3	30	70	3	3
7.	HS401BM	Managerial Economics & Accountancy	3	-	-	3	30	70	3	3
Practical / Laboratory Courses										
8.	PC451EE	Digital Electronics and Integrated Circuits Lab	-	-	2	2	25	50	3	1
9.	PC452EE	Computer Aided Electrical Drawing Lab.	-	-	2	2	25	50	3	1
			21	**04**	**04**	**29**	**260**	**590**		**23**

B.E: ELECTRICAL AND ELECTRONICS ENGINEERING

I YEAR

Code	Subject	Periods per Week			Credits	Scheme of Examination Max. Marks		
		L	T	P		Internal	External	Total
EG101	ENGLISH	3	-	-	-	25	75	100
MT101	MATHEMATICS-I	3	-	-	-	25	75	100
MT102	MATHEMATCS-II	3	-	-	-	25	75	100
PH101	ENGINEERING PHYSICS	3	-	-	-	25	75	100
CH101	ENGINEERING CHEMISTRY	3	-	-	-	25	75	100
CS101	PROGRAMMING IN C AND C++	3	-	-	-	25	75	100
CE101	ENGINEERING MECHANICS	3	-	-	-	25	75	100
CE102	ENGINEERING GRAPHICS	-	-	6	-	50	100	150
PH132	PHYSICS LAB	-	-	3	-	25	50	75
CH132	CHEMISTRY LAB	-	-	3	-	25	50	75
ME131	WORKSHOP PRACTICE	-	-	3	-	25	50	75
CS131	PROGRAMMING LAB	-	-	3	-	25	50	75
EG131	ENGLISH LANGUAGE LAB	-	-	2	-	25	50	75
TOTAL		**21**	**-**	**20**	**-**	**350**	**875**	**1175**

II YEAR I SEMESTER

Code	Subject	Periods per Week			Credits	Scheme of Examination Max. Marks		
		L	T	P		Internal	External	Total
MT201	MATHEMATICS-III	4	-	-	-	25	75	100
EE201	ELECTRICAL CIRCUITS-I	4	-	-	-	25	75	100

CE222	ENVIRONMENTAL STUDIES	4	-	-	-	25	75	100
EE204	ELECTRICAL MEASUREMENTS AND INSTRUMENTS	4	-	-	--	25	75	100
EC221	ELECTRONIC ENGINEERING-I	4	-	-	-	25	75	100
ME223	PRINCIPLES OF MECHANICAL ENGINEERING	4	-	-	-	25	75	100
EC241	ELECTRONIC ENGINEERING LAB-I	-	-	3	-	25	50	75
EE242	CIRCUITS AND MEASUREMENTS LAB	-	-	3	-	25	50	75
	TOTAL	**24**	**-**	**6**	**-**	**200**	**550**	**750**

II YEAR II SEMESTER

Code	**Subject**	**Periods per Week**			**Credits**	**Scheme of Examination Max. Marks**		
		L	T	P		Internal	External	Total
EE251	ELECTRICAL CIRCUITS-II	4	-	-	-	25	75	100
CE223	SOLID MECHANICS	4	-	-	-	25	75	100
EE253	POWER SYSTEMS-I	4	-	-	-	25	75	100
EC271	ELECTRONIC ENGINEERING-II	4	-	-	-	25	75	100
EE252	ELECTRO MAGNETIC THEORY	4	-	-	-	25	75	100
EE254	ELECTRICAL MACHINERY-I	4	-	-	-	25	75	100
EC291	ELECTRONIC ENGINEERING LAB-II	-	-	3	-	25	50	75
ME291	MECHANICAL TECHNOLOGY LAB	-	-	3	-	25	50	75
	TOTAL	**24**	**-**	**6**	**-**	**200**	**550**	**750**

III YEAR I SEMESTER

Code	**Subject**	**Periods per Week**	**Credits**	**Scheme of Examination Max. Marks**

		L	T	P		Internal	External	Total
EE301	POWER SYSTEMS-II	4	-	-	-	25	75	100
EE302	ELECTRICAL MACHINERY-II	4	1	-	-	25	75	100
EE303	POWER ELECTRONICS	4	1	-	-	25	75	100
EE304	DIGITAL ELECTRONICS AND LOGIC DESIGN	4	-	-	-	25	75	100
EE305	LINEAR INTEGRATED CIRCUITS	4	-	-	-	25	75	100
EE306	LINEAR CONTROL SYSTEMS	4	1	-	-	25	75	100
EE331	ELECTRICAL MACHINES LAB-I	-	-	3	-	25	50	75
EE332	CONTROL SYSTEMS LAB	-	-	3	-	25	50	75
	TOTAL	**24**	**3**	**6**	**-**	**200**	**550**	**750**

III YEAR II SEMESTER

Code	**Subject**	**Periods per Week**			**Credits**	**Scheme of Examination Max. Marks**		
		L	T	P		Internal	External	Total
EE351	DIGITAL SIGNAL PROCESSING	4	-	-	-	25	75	100
EE352	ELECTRICAL MACHINERY-III	4	1	-	-	25	75	100
EE353	SWITCHGEAR AND PROTECTION	4	-	-	-	25	75	100
EE354	MICROPROCESSOR AND MICROCONTROLLERS	4	-	-	-	25	75	100
CM371	MANAGERIAL ECONOMICS AND ACCOUNTANCY	4	-	-	-	25	75	100
EE381	ELECTRICAL MACHINES LAB-II	-	-	3	-	25	50	75
EE382	POWER ELECTRONICS LAB	-	-	3	-	25	50	75
EE383	INTEGRATED CIRCUITS LAB	-	-	3	-	25	50	75
EE384	INDUSTRIAL VISIT	-	-	-	-	GRADE	-	-

	TOTAL	**20**	**1**	**9**	**-**	**200**	**525**	**725**

IV YEAR I SEMESTER

Code	**Subject**	**Periods per Week**			**Credits**	**Scheme of Examination Max. Marks**		
		L	T	P		Internal	External	Total
EE401	POWER SYSTEM OPERATION AND CONTROL	4	-	-	-	25	75	100
EE402	ELECTRIC DRIVES AND STATIC CONTROL	4	-	-	-	25	75	100
EE403	ELECTRICAL MACHINE DESIGN	4	-	-	-	25	75	100
Elective - I		4	-	-	-	25	75	100
EE411	HIGH VOLTAGE DC TRANSMISSION							
EE412	HIGH VOLTAGE ENGINEERING							
EE413	POWER QUALITY							
EE414	NUCLEAR ENERGY							
ME411	ENTREPRENEURSHIP							
CS403	INFORMATION SECURITY							
CS467	EMBEDDED SYSTEMS							
PRACTICALS								
EE431	ELECTRICAL SIMULATION LAB	-	-	3	-	25	50	75
EE432	MICROPROCESSORS AND MICROCONTROLLRS LAB	-	-	3	-	25	50	75
EE433	POWER SYSTEMS LAB	-	-	3	-	25	50	75
EE434	PROJECT SEMINAR	-	-	3	-	25	-	-
	TOTAL	**16**	**-**	**12**	**-**	**200**	**450**	**650**

IV YEAR II SEMESTER

Code	Subject	Periods per Week			Credits	Scheme of Examination Max. Marks		
		L	T	P		Internal	External	Total
EE451	UTILIZATION	4	-	-	-	25	75	100
ME472	INDUSTRIAL ADMINISTRATION AND FINANCIAL MANAGEMENT	4	-	-	-	25	75	100
Elective - II		4	-	-	-	25	75	100
EE461	ELECTRICAL POWER DISTRIBUTION ENGINEERING							
EE462	ADVANCED CONTROL SYSTEMS							
EE463	OPTIMIZATION METHODS							
EC402	VLSI DESIGN							
LA454	INTELLECTUAL PROPERTY RRIGHTS							
CE452	DISASTER MITIGATION AND MANAGEMENT							
Elective - III		4	-	-	-	25	75	100
EE471	RENEWABLE ENERGY SOURCES							
EE472	TRANSDUCERS							
EE473	POWER SYSTEM RELIABILITY							
EE452	ELECTRONIC INSTRUMENTATION SYSTEMS							
CS413	IMAGE PROCESSING							
CS415	SOFT COMPUTING							
	PRACTICALS							
EE481	DIGITAL SIGNAL PROCESSING	-	-	3	-	25	50	75
EE482	PROJECT	-	VIVA VOCE	6	-	50	GRADE	50

EE483	SEMINAR	-	-	3	-	25	-	25
	TOTAL	**16**	**-**	**12**	**-**	**200**	**350**	**550**