With effect from academic year 2016-2017

SCHEME OF INSTRUCTION & EXAMINATION

B.E. (EEE) I Semester (Common to all Branches)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P/Dg.	Contact Hrs/wk	CIE	SEE	
1.	BS101MT	Mathematics-I	3	1	-	4	30	70	3
2.	BS102PH	Engineering Physics-I	3	-	-	3	30	70	3
3.	BS103CH	Engineering Chemistry-I	3	-	-	3	30	70	3
4.	ES101CE	Engineering Mechanics-I	3	-	-	3	30	70	3
5.	ES102CS	Computer Programming and Problem Solving	3	-	-	3	30	70	3
6.	MC101EG	Engineering English	3	-	-	3	30	70	1
Practicals									
7.	BS151PH	Engineering Physics Lab-I	-	-	2	2	25	50	1
8.	BS152CH	Engineering Chemistry Lab-I	-	-	2	2	25	50	1
9.	ES151CS	Computer Programming Lab	-	-	2	2	25	50	1
10.	ES152ME	Workshop Practice-I	-	-	2	2	25	50	1
11.	ES153CE	Engineering Graphics-I	-	-	2x2	4	50	50	2
12.	MC151EG	Engineering English Lab	-	-	2	2	25	50	1
			18	01	14	33	355	720	23

With effect from academic year 2015-2016

SCHEME OF INSTRUCTION & EXAMINATION

B.E.(EEE) II Semester

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P	Contact Hrs/wk	CIE	SEE	
1.	BS201MT	Mathematics-II	3	1	-	4	30	70	3
2.	BS202PH	Engineering Physics-II	3	-	-	3	30	70	3
3.	BS203CH	Engineering Chemistry-II	3	-	-	3	30	70	3
4.	ES221ME	Elements of Mechanical Engineering	3	-	-	3	30	70	3
5.	HS201EG	Business Communication and Presentation Skills	3	-	-	3	30	70	3
6.	ES221EC	Electronic Engineering – I	3	-	-	3	30	70	3
Practicals									
7.	BS251PH	Engineering Physics Lab-II	-	-	2	2	25	50	1
8.	BS252CH	Engineering Chemistry Lab-II	-	-	2	2	25	50	1
9.	HS251EG	Communication Skills Lab	-	-	2	2	25	50	1
10.	ES251CS	Computer Skills Lab.	-	-	2	2	25	50	1
			18	01	08	27	280	620	22

Interdisciplinary Courses Offered to Other Departments
B.E. II Semester

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P	Contact Hrs/wk	CIE	SEE	
1.	ES221EE	Basic Electrical Engineering (For ECE & CSE)	3	-	-	3	30	70	3

With effect from academic year 2016-2017

SCHEME OF INSTRUCTION & EXAMINATION

B.E.(EEE) III Semester

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P	Contact Hrs/wk	CIE	SEE	
1.	BS901MT	Mathematics - III	3	1	-	4	30	70	3
2.	PC301EE	Electrical Circuits - I	3	1	-	4	30	70	3
3.	PC302EE	Electromagnetic Fields	3	1	-	4	30	70	3
4.	PC303EE	Digital Electronics & Logic Design	3	1	-	4	30	70	3
5.	ES323EC	Electronic Engineering-II	3	-	-	3	30	70	3
6.	ES322ME	Prime Movers & Pumps	3	-	-	3	30	70	3
7.	HS901BT	Environmental Sciences	3	-	-	3	30	70	3
Practicals									
8.	ES343EC	Electronic Engineering Lab.	-	-	2	2	25	50	1
9.	PC351EE	Computer Aided Electrical Drawing Lab.	-	-	2	2	25	50	1
			21	4	4	30	260	590	23

Interdisciplinary Courses Offered to Other Departments
B.E III Semester

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P	Contact Hrs/wk	CIE	SEE	
1.	ES321EE	Electrical Technology (For CE)	2	-	-	2	15	35	2
2.	ES322EE	Electrical Circuits & Machines (For ME)	3	-	-	3	30	70	3
3.	ES341EE	Electrical Engineering Lab (For ECE & CSE)	-	-	2	2	25	50	1

With effect from academic year 2016-2017

SCHEME OF INSTRUCTION & EXAMINATION

B.E.(EEE) IV Semester

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P	Contact Hrs/wk	CIE	SEE	
1.	BS902MT	Mathematics - IV	3	1	-	4	30	70	3
2.	PC401EE	Electrical Circuits - II	3	1	-	4	30	70	3
3.	PC402EE	Electrical Machines-I	3	1	-	4	30	70	3
4.	PC403EE	Power System-I	3	1	-	4	30	70	3
5.	PC404EE	Electrical Measurements & Instrumentation	3	1	-	4	30	70	3
6.	PC405EE	Linear Integrated Circuits	3	-	-	3	30	70	3
7.	HS901MB	Managerial Economics & Accountancy	3	-	-	3	30	70	3
Practicals									
8.	PC451EE	Electrical Circuits Lab	-	-	2	2	25	50	1
9.	ES441ME	Prime Movers & Pumps Lab	-	-	2	2	25	50	1
			21	05	04	30	260	590	23

Interdisciplinary Courses Offered to Other Departments
B.E. IV Semester

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P	Contact Hrs/wk	CIE	SEE	
1.	ES441EE	Electrical Circuits & Machines Lab (For ME)		-	2	2	25	50	1

With effect from academic year 2017-2018

SCHEME OF INSTRUCTION & EXAMINATION

B.E.(EEE) V Semester

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P	Contact Hrs/wk	CIE	SEE	
1.	PC501EE	Power Systems – II	3	1	-	4	30	70	3
2.	PC502EE	Electrical Machines-II	3	1	-	4	30	70	3
3.	PC503EE	Power Electronics	3	1	-	4	30	70	3
4.	PC504EE	Linear Control Systems	3	1	-	4	30	70	3
5.	PC505EE	Digital Signal Processing and Applications	3	-	-	3	30	70	3
6.	PE-I	PROFESSIONAL ELECTIVE-I	3	-	-	3	30	70	3
7.	PE-II	PROFESSIONAL ELECTIVE-II	3	-	-	3	30	70	3
Practicals									
8.	PC551EE	Electrical Machines Lab – I	-	-	2	2	25	50	1
9.	PC552EE	Digital Electronics and Integrated Circuits Lab	-	-	2	2	25	50	1
10.	PC553EE	Electrical Measurements & Instrumentation Lab	-	-	2	2	25	50	1
			21	04	06	31	285	640	24

PROFESSIONAL ELECTIVE-I	
PE501EE	Electric Traction System
PE502EE	Electronic Instrumentation
PE503EE	High Voltage Engineering

PROFESSIONAL ELECTIVE-II	
PE504EE	Control of Electric Drives
PE505EE	AI Techniques
PE506EE	Electrical Estimation Costing & Safety

With effect from academic year 2017-2018

SCHEME OF INSTRUCTION & EXAMINATION

B.E.(EEE) VI Semester

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P	Contact Hrs/wk	CIE	SEE	
1.	PC601EE	Electrical Machines-III	3	1		4	30	70	3
2.	PC602EE	Microprocessors and Microcontrollers	3	1	-	4	30	70	3
3.	PC603EE	Switchgear and Protection	3	1	-	4	30	70	3
4.	PC604EE	Utilization of Electrical Energy	3	1	-	4	30	70	3
5.	PE-III	PROFESSIONAL ELECTIVE-III	3	-	-	3	30	70	3
6.	OE-I	OPEN ELECTIVE-I	3	-	-	3	30	70	3
Practicals									
7.	PC651EE	Electrical Machines Lab-II	-	-	2	2	25	50	1
8.	PC652EE	Power Electronics Lab	-	-	2	2	25	50	1
9.	PC653EE	Control Systems Lab	-	-	2	2	25	50	1
10.	PW661EE	MiniProject	-	-			25	50	2
11.	PW961EE	Summer Internship*	-	-	-	-	-	-	-
			18	04	06	28	280	620	23

*** The students have to undergo a Summer Internship of 6 weeks duration after VI semester and credits will be awarded in VII semester after evaluation.**

PROFESSIONAL ELECTIVE-III	
PE601EE	Power Quality Engineering
PE602EE	Programmable Logic Controllers
PE603EE	Digital Control Systems

OPEN ELECTIVE-I	
OE601BM	MEMS
OE601CE	Disaster Management
OE602CE	Geospatial Techniques
OE601CS	Operating Systems
OE602CS	OOPS using JAVA
OE601EC	Embedded Systems
OE602EC	Signal Analysis and Transform Techniques
OE601EE	Reliability Engineering
OE601ME	Robotics
OE602ME	Material Handling
OE601LA	Intellectual Property Rights

With effect from academic year 2018-2019

SCHEME OF INSTRUCTION & EXAMINATION

B.E.(EEE) VII Semester

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P	Contact Hrs/wk	CIE	SEE	
1.	PC701EE	Power System Operation and Control	3	1	-	4	30	70	3
2.	PC702EE	Electric Drives and Static Control	3	1	-	4	30	70	3
3.	PC703EE	Renewable Energy Technologies	3	1	-	4	30	70	3
4.	PE-IV	PROFESSIONAL ELECTIVE-IV	3	-	-	3	30	70	3
5.	OE-II	OPEN ELECTIVE-II	3	-	-	3	30	70	3
6.	MC	MANDATORY COURSE	-	-	3	3	50	-	3 UNITs
Practicals									
7.	PC751EE	Electrical Simulation Lab	-	-	2	2	25	50	1
8.	PC752EE	Microprocessor and Microcontrollers Lab	-	-	2	2	25	50	1
9.	PW761EE	Project Work-I	-	-	2	2	50	-	4
10.	PW961EE	Summer Internship	-	-	-	-	50	-	2
			15	03	06	27	350	450	23

PROFESSIONAL ELECTIVE-IV	
PE701EE	Electrical Distribution Systems
PE702EE	Electrical Machine Design
PE703EE	Power System Reliability

OPEN ELECTIVE-II	
OE701BE	Image Processing
OE701CE	Optimization Techniques
OE701CS	Data Base Systems
OE702CS	Information Security
OE701EC	Neural Networks
OE701EE	Renewable Energy Sources
OE701ME	Entrepreneurship
OE702ME	Finite Element Methods

MANDATORY COURSE	
MC951SP	Yoga Practice
MC952SP	NSS
MC953SP	Sports

With effect from academic year 2018-2019

SCHEME OF INSTRUCTION & EXAMINATION

B.E.(EEE) VIII Semester

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P	Contact Hrs/wk	CIE	SEE	
1.	PC703EE	Power Electronic Applications to Power Systems	3	1	-	4	30	70	3
2.	PE-V	PROFESSIONAL ELECTIVE-V	3	-	-	3	30	70	3
3	OE-III	OPEN ELECTIVE-III	3	-	-	3	30	70	3
4.	MC901EG	Gender Sensitization	3	-	-	3	30	70	3UNITs
Practicals									
5.	PC851EE	Power System Lab	-	-	2	2	25	50	1
6.	PW861EE	Project Work-II			4	4	50	100	8
			09	01	06	16	165	360	18

PROFESSIONAL ELECTIVE-V	
PE801EE	Advanced Control Systems
PE802EE	Special Electrical Machines
PE803EE	Advanced Power Electronics

OPEN ELECTIVE-III	
OE801MT	Statistical Applications in Engineering
OE801BM	Human Factor Engineering
OE801CE	Road Safety Engineering
OE802CE	Green Building Technology
OE801CS	Software Engineering
OE801EC	Pattern Recognization
OE801EE	Utilization of Electrical Energy
OE801ME	Mechanics of Composite Materials

S.No.	Course Work-Subject Area	Credits/Semester								Total Credits
		I	II	III	IV	V	VI	VII	VIII	
1.	Humanities and Social Sciences **(HS)** **(5-10)**	-	**4** (1+1)	**3** (1)	**3** (1)	-	-	-	-	**10 (5.6%)**
2.	Basic Sciences **(BS)** **(15-20)**	**11** (3+2)	**11** (3+2)	**3** (1)	**3** (1)	-	-	-	-	**28 (15.8%)**
3.	Engineering Sciences **(ES)** **(15-20)**	**10** (2+3)	**7** (2+1)	**7** (2+1)	**1** (0+1)	-	-	-	-	**25 (14.1%)**
4.	Professional Subjects- Core **(PC)** **(30-40)**	-	-	**10** (3+1)	**16** (5+1)	**18** (5+3)	**15** (4+3)	**11** (3+2)	**4** (1+1)	**74 (41.8%)**
5.	Professional Subjects-Electives **(PE)** **(10-15)**	-	-	-	-	**6** (2)	**3** (1)	**3** (1)	**3** (1)	**15 (8.47%)**
6.	Open Subjects-Electives **(OE)** **(5-10)**	-	-	-	-	-	**3** (1)	**3** (1)	**3** (1)	**09 (5.0%)**
7.	Project Work, Seminar and/or Internships **(EEP)** **(10-15)**	-	-	-	-	-	**2**	**6**	**8**	**16 (9.0%)**
8.	Mandatory Courses **(MC)**	**2** (1+1)	-		-	-	-	**3units**	**3units**	-
		23	**22**	**23**	**23**	**21**	**23**	**21**	**18**	**177**