

With effect from academic year 2015-2016

**SCHEME OF INSTRUCTION & EXAMINATION**

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

S. No.	Course Code	Course Title	Scheme of Instruction			Contact Hrs/wk	Scheme of Examination		Credits
			L	T	P/Dg.		CIE	SEE	
1.	BS101MT	Engineering 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 Graphics-I	-	-	3+3	6	50	50	3
5.	ES102CE	Engineering Mechanics-I	3	-	-	3	30	70	3
6.	ES103 CS	Computer Programming and Problem Solving	3	-	-	3	30	70	3
7.	MC101EG	Engineering English	3	-	-	3	30	70	3
8.	BS151PH	Engineering Physics Lab-I	-	-	2	2	25	50	1
9.	BS152CH	Engineering Chemistry Lab-I	-	-	2	2	25	50	1
10.	ES151CS	Computer Programming Lab	-	-	2	2	25	50	1
11.	ES152ME	Engineering Workshop -I	-	-	2	2	25	50	1
12.	MC151EG	Engineering English Lab	-	-	2	2	25	50	1
			18	01	16	35	355	720	26

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**SCHEME OF INSTRUCTION & EXAMINATION**

**B.E.(EEE) II Semester**

S. No.	Course Code	Course Title	Scheme of Instruction			Contact Hrs/wk	Scheme of Examination		Credits
			L	T	P		CIE	SEE	
1.	BS201MT	Engineering 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.	ES222EC	Electronic Engineering – I	3	-	-	3	30	70	3
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			Contact Hrs/wk	Scheme of Examination		Credits
			L	T	P		CIE	SEE	
1.	ES221EE	Basic Electrical Engineering (For ECE & CSE)	3	-	-	3	30	70	3

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**SCHEME OF INSTRUCTION & EXAMINATION**

**B.E.(EEE) III Semester**

S. No.	Course Code	Course Title	Scheme of Instruction			Contact Hrs/wk	Scheme of Examination		Credits
			L	T	P		CIE	SEE	
1.	BS301MT	Mathematics - III	3	1	-	4	30	70	3
2.	PC301EE	Electrical Circuits - I	3	2	-	5	30	70	4
3.	PC302EE	Electromagnetic Fields	3	1	-	4	30	70	3
4.	PC303EE	Digital Electronics & Logic Design	3	-	-	3	30	70	3
5.	ES322EC	Electronic Engineering-II	3	-	-	3	30	70	3
6.	ES322ME	Prime Movers & Pumps	3	-	-	3	30	70	3
7.	MC321CE	Environmental Studies	3	-	-	3	30	70	3
8.	ES325EC	Electronic Engineering Lab.	-	-	2	2	25	50	1
9.	PC351EE	Computer Aided Electrical Drawing Lab.	-	-	2	2	25	50	1
			21	4	4	29	260	590	24

**Interdisciplinary Courses Offered to Other Departments  
B.E III Semester**

S. No.	Course Code	Course Title	Scheme of Instruction			Contact Hrs/wk	Scheme of Examination		Credits
			L	T	P		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.	ES323EE	Electrical Engineering Lab (For ECE & CSE)	-	-	2	2	25	50	1

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**SCHEME OF INSTRUCTION & EXAMINATION**

**B.E.(EEE) IV Semester**

S. No.	Course Code	Course Title	Scheme of Instruction			Contact Hrs/wk	Scheme of Examination		Credits
			L	T	P		CIE	SEE	
1.	BS401MT	Mathematics - IV	3	1	-	4	30	70	3
2.	PC401EE	Electrical Circuits - II	3	2	-	5	30	70	4
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.	HS401BM	Managerial Economics & Accountancy	3	-	-	3	30	70	3
8.	PC451EE	Electrical Circuits Lab	-	-	2	2	25	50	1
9.	ES421ME	Prime Movers & Pumps Lab	-	-	2	2	25	50	1
			21	06	04	31	260	590	24

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

S. No.	Course Code	Course Title	Scheme of Instruction			Contact Hrs/wk	Scheme of Examination		Credits
			L	T	P		CIE	SEE	
1.	ES421EE	Electrical Circuits & Machines Lab (For ME)		-	2	2	25	50	1

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**SCHEME OF INSTRUCTION & EXAMINATION**

**B.E.(EEE) V Semester**

S. No.	Course Code	Course Title	Scheme of Instruction			Contact Hrs/wk	Scheme of Examination		Credits
			L	T	P		CIE	SEE	
1.	PC501EE	Power Systems - II	3	1	-	4	30	70	3
2.	PC502EE	Electrical Machines-II	3	2	-	5	30	70	4
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	1	-	4	30	70	3
6.	PE-I	PROFESSIONAL ELECTIVE-I	3	-	-	3	30	70	3
7.	PC551EE	Electrical Machines Lab – I	-	-	2	2	25	50	1
8.	PC552EE	Digital Electronics and Integrated Circuits Lab	-	-	2	2	25	50	1
9.	PC553EE	Electrical Measurements & Instrumentation Lab	-	-	2	2	25	50	1
			18	06	06	30	255	570	22

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

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**SCHEME OF INSTRUCTION & EXAMINATION**

**B.E.(EEE) VI Semester**

S. No.	Course Code	Course Title	Scheme of Instruction			Contact Hrs/wk	Scheme of Examination		Credits
			L	T	P		CIE	SEE	
1.	PC601EE	Electrical Machines-III	3	2		5	30	70	4
2.	PC602EE	Microprocessors and Microcontrollers	3	1	-	4	30	70	3
3.	PC603EE	Switchgear and Protection	3	-	-	3	30	70	3
4.	PC604EE	Renewable Energy Technologies	3	-	-	3	30	70	3
5.	PE-II	PROFESSIONAL ELECTIVE-II	3	-	-	3	30	70	3
6.	OE-I	OPEN ELECTIVE-I	3	-	-	3	30	70	3
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.	SI*	Summer Internship*	-	-	-	-	-	-	-
			18	03	06	27	255	570	22

\* 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-II	
PE601EE	AI Techniques
PE602EE	Programmable Logic Controllers
PE603EE	Digital Control Systems

OPEN ELECTIVE-I	
OE601BE	MEMS
OE602CE	Disaster Management
OE603CE	Geospatial Techniques
OE604CS	Operating Systems
OE605CS	OOPS using JAVA
OE606EC	Embedded Systems
OE607EC	Signal Analysis and Transform Techniques
*OE608EE	Reliability Engineering
OE609ME	Robotics
OE610ME	Material Handling
OE611LA	Intellectual Property Rights

\*OE608EE Elective is not offered to the students of Electrical Engineering Department

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**SCHEME OF INSTRUCTION & EXAMINATION**

**B.E.(EEE) VII Semester**

S. No.	Course Code	Course Title	Scheme of Instruction			Contact Hrs/wk	Scheme of Examination		Credits
			L	T	P		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	Power Electronic Applications to Power Systems	3	1	-	4	30	70	3
4.	PE-III	PROFESSIONAL ELECTIVE-III	3	-	-	3	30	70	3
5.	OE-II	OPEN ELECTIVE-II	3	-	-	3	30	70	3
6.	PC751EE	Electrical Simulation Lab	-	-	2	2	25	50	1
7.	PC752EE	Microprocessor and Microcontrollers Lab	-	-	2	2	25	50	1
8.	EEP-I	Project Work-I	-	-	2	2	50	-	2
9.	SI	Summer Internship	-	-	-	-	50	-	2
			15	03	06	24	300	450	21

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

OPEN ELECTIVE-II	
OE701BE	Image Processing
OE702CE	Optimization Techniques
OE703CS	Data Base Systems
OE704CS	Information Security
OE705EC	Neural Networks
*OE706EE	Renewable Energy Sources
OE707ME	Entrepreneurship
OE708ME	Finite Element Analysis

\*OE706EE Elective is not offered to the students of Electrical Engineering Department

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**SCHEME OF INSTRUCTION & EXAMINATION**

**B.E.(EEE) VIII Semester**

S. No.	Course Code	Course Title	Scheme of Instruction			Contact Hrs/wk	Scheme of Examination		Credits
			L	T	P		CIE	SEE	
1.	PC801EE	Utilization of Electrical Energy	3	-	-	3	30	70	3
2.	PE-IV	PROFESSIONAL ELECTIVE-IV	3	-	-	3	30	70	3
3.	PC851EE	Power System Lab	-	-	2	2	25	50	1
4.	EEP-2	Project Work-II			6	6	50	100	8
			06	-	08	14	135	290	15

PROFESSIONAL ELECTIVE-IV	
PE801EE	Advanced Control Systems
PE802EE	Electrical Estimation Costing & Safety
PE803EE	Advanced Power Electronics



S.No.	Course Work- Subject Area	Credits/Semester								Total Credits
		I	II	III	IV	V	VI	VII	VIII	
1.	Humanities and Social Sciences (HS)	-	<b>4</b> (1+1)	-	<b>3</b> (1)	-	-	-	-	<b>07</b> <b>(4%)</b>
2.	Basic Sciences (BS)	<b>11</b> (3+2)	<b>11</b> (3+2)	<b>3</b> (1)	<b>3</b> (1)	-	-	-	-	<b>28</b> <b>(16%)</b>
3.	Engineering Sciences (ES)	<b>11</b> (3+2)	<b>7</b> (2+1)	<b>7</b> (2+1)	<b>1</b> (0+1)	-	-	-	-	<b>26</b> <b>(15%)</b>
4.	Professional Subjects- Core (EE)	-	-	<b>11</b> (3+1)	<b>17</b> (5+1)	<b>19</b> (5+3)	<b>16</b> (4+3)	<b>11</b> (3+2)	<b>4</b> (1+1)	<b>78</b> <b>(44%)</b>
5.	Professional Subject-Electives (EE*)	-	-	-	-	<b>3</b> (1)	<b>3</b> (1)	<b>3</b> (1)	<b>3</b> (1)	<b>12</b> <b>(7%)</b>
6.	Open Subjects- Electives (OE)	-	-	-	-	-	<b>3</b> (1)	<b>3</b> (1)	-	<b>06</b> <b>(4%)</b>
7.	Project Work, Seminar and/or Internships (EEP)	-	-	-	-	-	-	<b>4</b>	<b>8</b>	<b>12</b> <b>(7%)</b>
8.	Mandatory Courses (MC)	<b>4</b> (1+1)	-	<b>3</b> (1)	-	-	-	-	-	<b>07</b> <b>(4%)</b>
		<b>26</b>	<b>22</b>	<b>24</b>	<b>24</b>	<b>22</b>	<b>22</b>	<b>21</b>	<b>15</b>	<b>176</b>