

**JIS COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL ENGINEERING
CURRICULUM (UG B.TECH COURSE)
BATCH – 2016 PASSOUT**

1ST SEMESTER

Sl. No	Code	Paper	Contact Periods / week				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
BS	M101	Mathematics – I	3	1	-	-	4	4	100
BS	CH101	Chemistry - I	3	1	-	-	4	4	100
ES	ES 101	Basic Electrical & Electronic Engineering I	3	1	-	-	4	3	100
HS	HU101	English Language & Technical Communication	3	1	-	-	4	3	100
ES	ME101	Engineering Mechanics	3	1	-	-	4	3	100
BS	CH191	Chemistry I Lab	-	-	3	-	3	2	100
ES	ES 191	Basic Electrical & Electronics Engineering - I Lab	-	-	3	-	3	2	100
ES	ME191	Engineering Drawing & Computer Graphics	1	-	-	3	4	2	100
HS	XC181	Extracurricular activities (NSS/NCC/NSD ETC)-	-	-	-	2	2	-	50
HS	HU181	Language Laboratory	-	-	-	2	2	1	50
Total (Theory)							21	17	500
Total (Practical +Sessional)							13	7	400
GRAND TOTAL (THEORY+PRACTICAL+SESSIONAL)							34	24	900

2ND SEMESTER

Sl. No	Code	Paper	Contact Periods/ week				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
BS	M 201	Mathematics – II	3	1	-	-	4	4	100
BS	PH 201	Physics - I	3	1	-	-	4	4	100
ES	ES 201	Basic Electrical & Electronics Engineering II	3	1	-	-	4	3	100
ES	CS 201	Basic Computation & Principles of computer programming	3	1	-	-	4	3	100
ES	ME 201	Engineering Thermodynamics & Fluid Mechanics	3	1	-	-	4	3	100
BS	PH 291	Physics - I Lab	-	-	3	-	3	2	100
ES	CS 291	Basic Computation & Principles of computer programming Lab	-	-	3	-	3	2	100
ES	ES 291	Basic Electrical & Electronics Engineering II Lab	-	-	3	-	3	2	100
ES	ME 292	Workshop Practice	1	-	-	3	4	2	100
Total (Theory)							21	17	500
Total (Practical +Sessional)							12	8	400
GRAND TOTAL (THEORY+PRACTICAL+SESSIONAL)							33	25	900

3RD SEMESTER

Sl. No.	Code	Paper	Contact Periods/ week				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
BS	M(CS)301	Numerical Methods	2	1	-	-	3	2	100
BS	M 302	Mathematics – III	3	1	-	-	4	4	100
PC	EC(EE)301	Analog Electronic Circuits	3	-	-	-	3	3	100
ES	EC(EE)302	Digital Electronic Circuits	3	-	-	-	3	3	100
PC	EE301	Electric Circuit Theory	3	1	-	-	4	4	100
PC	EE302	Field Theory	3	1	-	-	4	4	100
BS	M(CS)391	Numerical Methods	-	-	2	-	2	1	100
PC	EC(EE)391	Analog & Digital Electronic Circuits	-	-	3	-	3	2	100
ES	EE391	Electric Circuit Theory	-	-	3	-	3	2	100
HS	HU 381	Technical Report Writing & Language Lab Practice	-	-	3	-	3	2	100
Total Theory							21	20	600
Total Practical							11	07	400
GRAND TOTAL							32	27	1000

4TH SEMESTER

Sl. No.	Code	Paper	Contact Periods/ week			Total Contact Hours	Credit	Full Marks
			L	T	P			
HS	HU401	Values & Ethics in Profession	3	0	0	0	0	100
BS	PH(EE) 401	Physics – II	3	1	-	4	4	100
PC	ME(EE)401	Thermal Power Engineering	3	-	-	3	3	100
BS	CH401	Basic Environmental Engineering & Elementary Biology	3	-	-	3	3	100
PC	EE 401	Electrical Machines I	3	1	-	4	4	100
PC	EE 402	Electrical & Electronics Measurement	3	-	-	3	3	100
BS	PH(EE) 491	Physics II Lab	-	-	3	3	2	100
PC	ME(EE) 481	Thermal Power Engineering Lab	-	-	3	3	2	100
PC	EE491	Electrical machine I Lab	-	-	3	3	2	100
PC	EE 492	Electrical & Electronics Measurement Lab	-	-	3	3	2	100
Total Theory						20	20	600
Total Practical						12	08	400
TOTAL						32	28	1000

5TH SEMESTER

Sl. No.	Code	Paper	Contact Periods Per Weeks				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
HS	HU 501	Economics for Engineers	3	0	0	0	3	2	100
PC	EE501	Electrical Machines II	3	1	0	0	4	4	100
PC	EE502	Power Systems I	3	1	0	0	4	4	100
PC	EE503	Control System I	3	1	0	0	4	4	100
PC	EE504	A. Data Structure & Algorithm B. Computer Organization C. Microprocessor & Microcontrollers	3	0	0	0	3	3	100
PC	EE591	Electrical Machines II Lab	0	0	3	0	3	2	100
PC	EE592	Power Systems I Lab	0	0	3	0	3	2	100
PC	EE593	Control System I Lab	0	0	3	0	3	2	100
PC	EE594	A. Data Structure & Algorithm B. Computer Organization C. Microprocessor & Microcontrollers	0	0	3	0	3	2	100
PC	EE581	Seminar	1	0	0	3	4	2	100
Total theory							19	17	500
Total Practical & Sessional							15	10	500
TOTAL							34	27	1000

6TH SEMESTER

Sl. No.	Code	Paper	Contact Periods Per Weeks				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
HS	HU 601	Principles of Management	2	0	0	0	2	2	100
PC	EE601	Control System – II	3	1	0	0	3	4	100
PC	EE602	Power Systems-II	3	1	0	0	3	4	100
PC	EE603	Power Electronics	3	1	0	0	3	4	100
PC	EE604	a. Software Engineering b. Data Base Management System c. Object Oriented Programming d. Embedded Systems.	3	1	0	0	3	3	100
PE	EE 605	a. Digital Signal Processing b. Communication Engineering. c. VLSI & Microelectronics	3	1	0	0	3	2	100
PC	EE691	Control System II	0	0	3	0	3	2	100
PC	EE692	Power Systems II	0	0	3	0	3	2	100
PC	EE693	Power Electronics	0	0	3	0	3	2	100
PC	EE694	a. Software Engineering b. Data Base Management System c. Object Oriented Programming d. Embedded Systems.	0	0	3	0	3	2	100
Total Theory							20	20	600
Total Practical/ Sessional							12	08	400
TOTAL							32	28	1000
#15 days training									

7TH SEMESTER

Sl. No	Code	Paper	Contact Periods Per Weeks				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
PC	EE 701	Electric Drives	4	0	0	0	4	4	100
PC	EE 702	Utilization of Electric power	3	1	0	0	4	4	100
PE	EE 703	A. Power System III B. Control System-III C. Electrical Machine-III	3	0	0	0	3	3	100
PE	EE704	A. High Voltage Engineering B. Power Plant Engineering C. Power Generation and Economics D. Renewable & Non-conventional Energy					3		100
PE	EE705	A. Computer Network B. AI & Soft Computing C. Digital Communication D. Digital Image Processing	3	0	0	0	3	3	100
PC	EE781	Seminar on Industrial Training	0	0	3	0	3	2	100
PC	EE791	Electric Drives lab	0	0	3	0	3	2	100
OE	EE792	A. Computer Network B. AI & Soft Computing C. Digital Communication D. Digital Image Processing	0	0	3	0	3	2	100
PC	EE782	Electrical System Design-I	0	0	3	0	3	2	100
PC	EE794	Project-I	0	0	0	0	9	2	100
Total Theory							17	17	500
Total Practical							12	10	500
TOTAL							29	27	1000
# 30 days training report									

8TH SEMESTER

Sl. No.	Code	Paper	Contact Periods Per Weeks				Total Contact Hours	Credit	Full Marks
			L	T	P	S			
HS	HU801A	Organizational Behavior	2	0	0	0	2	2	100
PE	EE 801	Elective IV a. HVDC Transmission b. Power Plant Engineering c. Energy Management and Audit	3	0	0	0	3	3	100
PE	EE802	a. Power plant instrumentation & Control b. Illumination Engineering c. Energy management & audit d. Digital Speech Signal Processing	3	0	0	0	3	3	100
Total							08	08	300
PC	EE881	Project	0	0	12	0	12	6	100
PC	EE882	Electrical System Lab II	0	0	6	0	6	4	100
PE	EE883	Grand Viva	0	0	0	0	0	3	100
Total Theory							08	08	300
Total Practical							18	13	300
TOTAL							26	21	600

