



ARKA JAIN University
Jharkhand (Jamshedpur)

Recognized by **UGC**
Approved by **AICTE**

Scheme of Study of the Program

Diploma -

Electrical & Electronics Engineering (DEEE)

Semester I,II,III,IV V & VI

(w.e.f batch 2017)

SEMESTER-I

SI No.	Name of the Subject	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA	Attendance
1	Communication Skills in English -1*	3	3	100	70	20	5	5
2	Engineering Maths-1 \$	4	4	100	70	20	5	5
3	Applied Science \$	4	4	100	70	20	5	5
4	Engineering Graphics -1 #	3	3	100	70	20	5	5
5	Basic Computer Skills #	3	3	100	70	20	5	5
6	Applied Science Lab \$	1	2	50	35	5	5	5
7	Engineering Graphics Lab #	2	4	50	35	5	5	5
8	Basic Computer Skills Lab #	1	2	50	35	5	5	5
9	Workshop Practice Lab –I #	2	4	50	35	5	5	5
	Total	23	29	700	490	120	45	45

SEMESTER-II

S.No	Name of the Subject	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA	Attendance
1	Communication Skills in English - 2 *	3	3	100	70	20	5	5
2	Engineering Maths - 2 \$	4	4	100	70	20	5	5
3	Basics of Electrical & electronics engg. #	4	4	100	70	20	5	5
4	Engineering Graphics - 2 #	3	3	100	70	20	5	5
5	Fundamentals of Programming Using C #	3	3	100	70	20	5	5
6	Basic of electrical & electronics engg. Lab #	1	2	50	35	5	5	5
7	Engineering Graphics Lab-2 #	2	4	50	35	5	5	5
8	Fundamentals of Programming Using C Lab #	1	2	50	35	5	5	5
9	Workshop Practice Lab–I #	2	4	50	35	5	5	5
	Total	23	29	700	490	120	45	45

SEMESTER-III

S.No	Name of the Subject	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA	Attendance
1	Electrical Measurements **	4	4	100	70	20	5	5
2	Electrical circuits & Network **	4	4	100	70	20	5	5
3	Principles of Digital Techniques **	3	3	100	70	20	5	5
4	Electrical Power Generation **	4	4	100	70	20	5	5
5	Electrical & Electronics Component & Material **	3	3	100	70	20	5	5
6	Electrical circuits & Network Lab **	2	4	50	35	5	5	5
7	Electrical Measurements Lab **	2	4	50	35	5	5	5
8	Electrical & Electronics Workshop Practice Lab **	2	4	50	35	5	5	5
	Total	24	30	650	455	115	40	40

SEMESTER-IV

S.No	Name of the Subject	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA	Attendance
1	Applied Mathematics #	4	4	100	70	20	5	5
2	Transmission Distribution of Electrical Power #	3	3	100	70	20	5	5
3	DC Machines Transformer #	3	3	100	70	20	5	5
4	Electrical Estimation & Costing #	3	3	100	70	20	5	5
5	Applied Electronics #	3	3	100	70	20	5	5
	Practical							
6	Electrical & Electronics Engineering Drawing	2	2	50	35	5	5	5
7	DC Machines Transformer	2	2	50	35	5	5	5
8	Applied Electronics	2	2	50	35	5	5	5
	Total	22	22	650	455	115	40	40

SEMESTER V

S.No	Name of the Subject	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA	Attendance
1	Switchgear & Protection	4	4	100	70	20	5	5
2	A.C. Machines	3	3	100	70	20	5	5
3	Utilization of Electrical Energy	3	3	100	70	20	5	5
4	Elective-I (Electric Traction – I/Computer Hardware Maintenance/Illumination Engineering/Microprocessor & microcontroller)	3	3	100	70	20	5	5
5	Elective-II (Industrial Automation /Energy Conservation & Audit/Semiconductor Device & Circuits)	3	3	100	70	20	5	5
6	A.C. Machines Lab	2	2	50	35	5	5	5
7	Electric Traction Lab/ Microprocessor Lab	2	2	50	35	5	5	5
8	Industrial Project & Entrepreneurship Development (In plant training & visit to work)	4	4 weeks Summer Training	100	50	50		
	Total	24	20	700	470	160	35	35

SEMESTER VI

S. No	Name of the Subject	Credit	Contact Hours Per Week	Total Marks	End Term Theory/ Practical Exam	Mid Term Theory/ Practical Exam	CIA	Attendance
1	Management	3	3	100	70	20	5	5
2	Testing & Maintenance of Electrical Machines	3	3	100	70	20	5	5
3	Power Electronics & Drives	3	3	100	70	20	5	5
4	Control Systems	4	4	100	70	20	5	5
5	Elective- III (Electrical Traction- 2/Maintenance & Repair of Electrical Equipment)	3	3	100	70	20	5	5
6	Control Systems Lab	2	2	50	35	5	5	5
7	Testing & Maintenance of Electrical Machines Lab	2	2	50	35	5	5	5
8	Project Work & Its Presentation in Seminar	4	4	100	50	50		
	TOTAL	24	24	700	470	160	35	35

*Humanities and Social Sciences (HS)

\$ Basic Sciences(BS)

#Engineering Sciences (ES)

***CIA - Continuous Internal Assessment - Based on Class Test / Assignment

Note : Approved by BOS on dated 11.08.2017 & Approved by Academic Council on Dated 17.08.2017