



ARKA JAIN University
Jharkhand (Jamshedpur)

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

Scheme of Study of the Program

Diploma -Civil Engineering (DCE)
Semester I,II,III,IV,V & VI
(w.e.f batch 2017)

SEMESTER-I

Sl 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	Applied Mathematics \$	4	4	100	70	20	5	5
2	Engineering Materials & Construction **	4	4	100	70	20	5	5
3	Concrete Technology **	3	3	100	70	20	5	5
4	Basic Surveying **	3	3	100	70	20	5	5
5	Engineering Economics & Accounts *	4	4	100	70	20	5	5
6	Civil Engineering Drawing **	2	4	50	35	5	5	5
7	Basic Surveying Lab **	2	4	50	35	5	5	5
8	Concrete Technology 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	Advanced Surveying#	4	4	100	70	20	5	5
2	Mechanics of Structure#	3	3	100	70	20	5	5
3	Geo Technical Engineering #	3	3	100	70	20	5	5
4	Transportation Engineering –I #	3	3	100	70	20	5	5
5	Fluid Mechanics & Machinery #	3	3	100	70	20	5	5
	PRACTICAL							
6	Fluid Mechanics & Machinery Lab	2	2	50	35	5	5	5
7	Mechanics of Structure Lab	2	2	50	35	5	5	5
8	Advanced Surveying Lab	2	2	50	35	5	5	5
9	Geotechnical engineering Lab	2	2	50	35	5	5	5
	Total	24	24	700	490	120	45	45

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	Irrigation Engineering	4	4	100	70	20	5	5
2	Transportation Engineering -II#	3	3	100	70	20	5	5
3	Theory of Structure	3	3	100	70	20	5	5
4	Estimating & Costing	3	4	100	70	20	5	5
5	Design of Steel Structure	3	3	100	70	20	5	5
6	Civil Engineering Lab	2	2	50	35	5	5	5
7	Computer Application Lab (CADD)	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	21	700	470	115	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	4	4	100	70	20	5	5
2	Contracts and Accounts	3	3	100	70	20	5	5
3	Environment Engineering	3	3	100	70	20	5	5
4	Design of Structure	3	3	100	70	20	5	5
5	Elective –I (Earth Quake resistant design & Construction / water & Land Management /Town Planning & Architecture/Rural Engineering &Technology /Construction Planning & Project Management /Advance Construction Techniques & Equipments/ Architectural Practice & Interior Design/ Maintenance & Rehabilitation of Structures/Plumbing Service	3	3	100	70	20	5	5
6	Environment Engineering Lab	2	2	50	35	5	5	5
7	Civil Engineering Project work & Its Presentation in Seminar	4	4	100	50	50		
	Total	22	22	650	435	155	30	30

*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