

Annexure V

Minor Programme in Civil Engineering

Minors are coherent sequences of courses taken in addition to the courses required for the Bachelor of Engineering students chosen from a considerable variety of complementary courses under the categories of technical and complementary studies.

Department of Civil Engineering, JUIT, Wagnaghat proudly offers minor in Civil Engineering for all concerned students. This minor program covers the most current theories and practices used in Civil Engineering. The program provides a valuable adjunct credential to engineering students pursuing their major degree in various fields. Engineering students from any branch may choose from a considerable variety of complementary courses under the categories of technical and complementary studies offered by Civil Engineering Department JUIT, Wagnaghat. This minor program is rigorous enough to serve as an introductory credential for students subsequently electing to pursue advanced studies in Civil Engineering.

Conditions for Award of Additional Certificate of Minor in Civil Engineering

1. Earning of minimum credits, as required for award of Major degree.
2. Earns 20 credits in addition to the credits as specified for the programme in the minor area.
3. Additional 20 credits in a minor discipline could be earned through MOOCs also and may include supporting courses from allied discipline limited to a maximum of 6 credits.
4. Successfully completing the Industrial Internship within the minimum period of 4 years.
5. Completing all the requirements of a degree in the minimum period of years.

Following is the course curriculum outline for proposed Minor programme in Civil Engineering, from which subjects worth 20 credits may be chosen by the student:

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, SOLAN							
COURSE CURRICULUM FOR MINOR PROGRAMME (20 CREDITS)							
MINOR IN CIVIL ENGINEERING							
Mandatory Subjects							
S. No.	Semester	Name of the Subjects	Course Hours			Credits	Total Hours
			L	T	P		
1	3	Surveying	3	0	0	3	3
2	3	Surveying Lab	0	0	2	1	2
3	4	Mechanics of Solids	3	0	0	3	3
4	6	Geotechnical Engineering	3	0	0	3	3
5	6	Geotechnical Engineering Lab	0	0	2	1	2
Remaining at least 9 Credits to be chosen from following							
6	5	Design of Concrete Structures	3	1	0	4	4
7	5	Water Supply Engineering	3	0	0	3	3
8	6	Highway Engineering	3	0	0	3	3
9	7	Construction Technology and Management	3	0	0	3	3
10	7	Fluid Mechanics	3	0	0	3	3
11	7	Fluid Mechanics Lab	0	0	2	1	2
12	8	Environmental Management and Impact Assessment	3	0	0	3	3
13	8	Computer Aided Planning and Costing	3	0	0	3	3

* Courses from MOOC or NPTEL may be chosen by student (maximum 9 credits) in case course content matches with subjects mentioned above.