

## B. Tech. (Civil Engineering)

The details of experiential learning are described in this document. Kindly refer to the respective pages as shown in the tables below for the courses offered in various academic sessions.

### Year 2018-2019

Course Title	Year of Offering	Name of Student	Page No
Project-I	2018	All the Students of 7th semester	2
Project II	2019	All the Students of 8th semester	3
Survey Camp	2018	All the Students of 4th semester	4
Industrial Training	2018	All the Students of 6th semester	5

### Year 2017-2018

Course Title	Year of Offering	Name of Student	Page No
Project-I	2017	All the Students of 7th semester	2
Project II	2018	All the Students of 8th semester	3
Survey Camp	2017	All the Students of 4th semester	4
Industrial Training	2017	All the Students of 6th semester	5

### Year 2016-2017

Course Title	Year of Offering	Name of Student	Page No
Project-I	2016	All the Students of 7th semester	2
Project II	2017	All the Students of 8th semester	3
Survey Camp	2016	All the Students of 5th semester	4
Industrial Training	2016	All the Students of 6th semester	5

### Year 2015-2016

Course Title	Year of Offering	Name of Student	Page No
Project-I	2015	All the Students of 7th semester	2
Project II	2016	All the Students of 8th semester	3
Survey Camp	2015	All the Students of 4th semester	4
Industrial Training	2015	All the Students of 6th semester	5

### Year 2014-2015

Course Title	Year of Offering	Name of Student	Page No
Survey Camp	2014	All the Students of 4th semester	4

**Project -I (CE-429N, CE-429 E):** Project-I is offered in 7th semester which is compulsory for all the B. Tech. Civil Engineering final year students. Students choose the project topic according to their interest and specialization (Structure Engineering, Geotechnology, Transportation Engineering, Surveying, Water Resource Engineering and Environmental Engineering). The purpose of the Project I is to expose students to expand their practical knowledge, so that they may be able to apply the engineering knowledge and skills that they have gained through classroom teaching and lab activities, in an on-the-job situation. In the project, students first choose the topic of their interest from the civil engineering field and investigate the selected topics for research problem formation. They investigate the literature of the selected topic and prepare a good methodology for solve the research problem. At last, students prepare the results, discuss the results to solve the research problem and conclude the solution in the conclusion part. **The Project I help the students in identifying the problem and solving techniques which can improve their capability and experiential learning.** In the starting of the project, one synopsis is submitted by each group to project in charge. Midterm evaluation is done by the project in charge to check the progress of the project. In the end of the semester, the project is evaluated by the project mentor, project in charge and external examiner appointed by the university. This can be verified from the screenshot taken from the university scheme of studies using the following link.

Bachelor of Technology (Civil Engineering) Kurukshetra University, Kurukshetra

*SCHEME OF STUDIES/EXAMINATIONS (w.e.f. 2015-16 onwards)*

**Semester – VII**

S. No.	Course No.	Course Title	Teaching Schedule				Allotment of Marks				Duration of Exam (Hrs.)
			L	T	P	Hours/ Week	Theory	Sessional	Practical	Total	
1	CE-401 N	Design of Concrete Structures-II	4	1	0	5	75	25	0	100	4
2	CE-403 N	Irrigation Engineering-II	3	1	0	4	75	25	0	100	3
3	CE-405 N	Transportation Engineering-II	3	1	0	4	75	25	0	100	3
4	CE-407 N	Sewerage & Sewage Treatment	3	0	0	3	75	25	0	100	3
5		DEC -I*	3	1	0	4	75	25	0	100	3
6	CE-409N	Concrete Structures-II (Drg.)	0	0	3	3	0	40	60	100	3
7	CE-411N	Irrigation Engg. Design & Drawing	0	0	2	2	0	40	60	100	3
8		DEC-II*	3	1	0	3	75	25	0	100	3
9	CE-429N	Project-I**	0	0	6	6	0	40	60	100	3
10	CE-435N	Field Training-2 (Viva-Voce)***	0	0	0	0		40	60	100	3
		<b>Total</b>	<b>19</b>	<b>05</b>	<b>11</b>	<b>35</b>	<b>450</b>	<b>270</b>	<b>280</b>	<b>1000</b>	

\* The students should select two Departmental Elective Courses (DEC) from the following list.

**Project II (CE-430N, CE-430 E):** Project II is offered in 8th semester which is compulsory for all the final year students. The Project II is directly linked with the Project I. Generally, problem is generated and investigated in the Project I and results and discuss with the experimental work is done in the Project II. **The purpose of the Project II to expose students to expand their practical knowledge, so that they may be able to apply the engineering knowledge and skills that they have gained through class room teaching and lab activities, in an on-the-job situation.** Also in Project II, Students submitted their synopsis to the project in charge and it is also evaluated by the project mentor, project in charge and external examiner appointed by the university.

**Bachelor of Technology (Civil Engineering) Kurukshetra University, Kurukshetra**  
**SCHEME OF STUDIES/EXAMINATIONS (w.e.f. 2015-16 onwards)**  
**Semester – VIII**

S. No.	Course No.	Course Title	Teaching Schedule				Allotment of Marks				Duration of Exam (Hrs.)
			L	T	P	Hours/Week	Theory	Sessional	Practical	Total	
1	CE-402N	Bridge Engineering	4	2	0	6	75	25	0	100	3
2	CE-404N	Railway & Airport Engineering	3	2	0	5	75	25	0	100	3
3	CE-406N	Industrial Waste Water Treatment	3	2	0	5	75	25	0	100	3
4		DEC-III*	3	1	0	4	75	25	0	100	3
5		DEC-IV*	3	1	0	4	75	25	0	100	3
6	CE-426N	Transportation Engineering-II (P)	0	0	2	2	0	40	60	100	3
7	CE-428N	Environment Engineering-II (P)	0	0	2	2	0	100	100	200	3
8	CE-430N	Project-II**	0	0	6	6	0	40	60	100	3
9	CE-434N	Seminar	0	1	0	1	0	50	0	50	3
10	CE-436N	Comprehensive Viva-Voice	0	0	0	0	0	0	75	75	3
11	CE-438N	General Fitness & Professional Aptitude	0	0	0	0	0	0	75	75	3
		<b>Total</b>	<b>16</b>	<b>9</b>	<b>10</b>	<b>35</b>	<b>375</b>	<b>295</b>	<b>330</b>	<b>1000</b>	

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**Survey Camp (CE-319N):** Survey Camp is the civil engineering experiential/training course for ten days usually after completion fourth semester of degree in Civil Engineering. Each day in the camp, there are at least 8 hours of working in the field. Students are divided into groups and they get out with practicing surveyors and use their equipment out in the field. A camp in-charge teacher appoints group leaders for each group; the leaders are responsible for all the works of his particular group and the equipment. The students use this program to take data collected from the field to develop topographic maps of the particular area. The basic aim of the survey camp is to know various works carried out in the industrial field by surveying, which includes determining the topography of particular area with the help of survey work, map study and reconnaissance work. The methods used are traversing, leveling and contouring.

**Bachelor of Technology (Civil Engineering)**

**Semester- V (w.e.f. session 2017-2018)**

S. N.	Course No.	Course Title	Teaching Schedule				Allotment of Marks				Duration of Exam (Hrs.)
			L	T	P	Hrs/ Wk	Theory	Sessional	Practical	Total	
1	CE-301N	Structural Analysis-III	4	2	0	6	75	25	0	100	3
2	CE-303N	Design of Concrete Structures-I	4	2	0	6	75	25	0	100	4
3	CE-305N	Hydrology	3	1	0	4	75	25	0	100	3
4	CE-307N	Geotechnology-I	3	1	0	4	75	25	0	100	3
5	CE-309N	Project Planning & Management	3	1	0	4	75	25	0	100	3
6	CE-311N	Concrete Technology	3	1	0	4	75	25	0	100	3
7	CE-313N	Structural Mechanics-II (P)	0	0	2	2	0	40	60	100	3
8	CE-315N	Concrete Technology (P)	0	0	2	2	0	40	60	100	3
9	CE-317N	Geotechnology (P)	0	0	2	2	0	40	60	100	3
10	CE-319N	Survey Camp / Field Training-I	1	0	0	1	0	0	100	100	
<b>Total</b>			21	8	6	35	450	270	280	1000	

**Survey Camp/Field Training-I** undergone by the students after IV sem is to be evaluated during V sem as **(CE-319N)** through submission of certified report to the H.O.D. followed by conduct of viva-voce & seminar/presentation.

**Industrial (Field) Training (CE-435N):** During the semester break at the end of the third year, students are required to undergo an Industrial Training. The purpose of the Industrial Training is to expose students to real-life industry situations, so that they may be able to apply the engineering knowledge and skills that they have gained through class-room teaching and lab activities, in an on-the-job situation. After the period of training, students are to present their experience in the form of reports and seminar presentations. In the industrial Training, the students learn the relationship of employer and company and prepare themselves for the future. Also, it can prepare the student for future and give good knowledge about the recent technology used in the field. Students will be evaluated on the seminar, viva voce examination and written reports. This can be verified from the screenshot taken from the university scheme of studies.

Bachelor of Technology (Civil Engineering) Kurukshetra University, Kurukshetra  
SCHEME OF STUDIES/EXAMINATIONS (w.e.f. 2015-16 onwards)  
Semester – VII

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2	CE-403 N	Irrigation Engineering-II	3	1	0	4	75	25	0	100	3
3	CE-405 N	Transportation Engineering-II	3	1	0	4	75	25	0	100	3
4	CE-407 N	Sewerage & Sewage Treatment	3	0	0	3	75	25	0	100	3
5		DEC -I*	3	1	0	4	75	25	0	100	3
6	CE-409N	Concrete Structures-II (Drg.)	0	0	3	3	0	40	60	100	3
7	CE-411N	Irrigation Engg. Design & Drawing	0	0	2	2	0	40	60	100	3
8		DEC-II*	3	1	0	3	75	25	0	100	3
9	CE-429N	Project-I**	0	0	6	6	0	40	60	100	3
10	CE-435N	Field Training-2 (Viva-Voce)***	0	0	0	0		40	60	100	3
		<b>Total</b>	<b>19</b>	<b>05</b>	<b>11</b>	<b>35</b>	<b>450</b>	<b>270</b>	<b>280</b>	<b>1000</b>	

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