

**Program Structure**  
**B.Tech in Civil Engineering**  
**Academic Year: 2018-19**

		SEMESTER I			SEMESTER II					
YEAR	COURSE CODE	COURSE TITLE	L	P	U	COURSE CODE	COURSE TITLE	L	P	U
I	CH111	Chemistry	3	0	3	ES111	Thermodynamics	3	0	3
	EGL101	English Language Skill	3	0	3	ES121	Engineering Mechanics	3	0	3
	ENV122	Environmental Science	3	0	3	MA121	Mathematics II	3	0	3
	MA111	Mathematics I	3	0	3	PH121	Physics II	3	0	3
	PH111	Physics I	3	0	3	TA102	Workshop	2	4	4
	TA101	Engineering Graphics	2	4	4	TA105	Physical Sciences Lab II	0	2	1
	TA104	Physical Sciences Lab I	0	2	1	TA121P	C Programming Practical	0	3	2
						TA121T	C Programming	3	0	3
<b>Summer Term</b>		SIP101	Summer Internship Program-I					0	0	5
		SEMESTER III			SEMESTER IV					
YEAR	COURSE CODE	COURSE TITLE	L	P	U	COURSE CODE	COURSE TITLE	L	P	U
II	CE211P	Surveying I Practical	0	3	2	CE221P	Surveying II Practical	0	3	2
	CE211T	Surveying I	3	0	3	CE221T	Surveying II	3	0	3
	CE214	Civil Engineering Drawing	0	6	2	CE225	Civil Engg. Estimation and Costing	3	0	3
	CE224	Building Materials and Construction	0	0	3		Humanities & Social Science Elective I	3	0	3
	TA204	Technical Report Writing	3	0	3	ES222P	Mechanics of Solids Practical	0	3	2
	ES 211P	Basic Electrical & Electronics Engineering Practical	0	3	2	ES222T	Mechanics of Solids	3	0	3
	ES211T	Basic Electrical & Electronics Engineering	3	0	3	ES223P	Fluid Mechanics Practical	0	3	2
	MA 211	Mathematics III	3	0	3	ES223T	Fluid Mechanics	3	0	3
						MA212	Probability and Statistics	3	0	3
<b>Summer Term</b>		SIP201	Summer Internship Program-II					0	0	5
		SEMESTER V			SEMESTER VI					
YEAR	COURSE CODE	COURSE TITLE	L	P	U	COURSE CODE	COURSE TITLE	L	P	U

  
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III	CE313	Design of Concrete Structures I	3	0	3	CE312	Design of Steel Structures I	3	0	3
	CE314P	Geotechnical Engineering I Practical	0	3	2	CE324	Geotechnical Engineering II	3	0	3
	CE314T	Geotechnical Engineering I	3	0	3	CE326P	Transportation Engineering I Practical	0	3	2
	CE315	Analysis of Structures I	3	0	3	CE326T	Transportation Engineering I	3	0	3
	CE325P	Concrete Technology Practical	0	3	2	CE327P	Design of Concrete Structures II Practical	0	3	2
	CE325T	Concrete Technology	3	0	3	CE327T	Design of Concrete Structures II	3	0	3
	ES311P	Hydraulics & Hydraulic Machines Practical	0	3	2	CE328	Analysis of Structures II	3	0	3
	ES311T	Hydraulics & Hydraulic Machines	3	0	3		Humanities & Social Science Elective II	3	0	3
	MA309	Numerical Analysis	3	0	3					
	SSU354	Soft Skills	2	0	2					
<b>Summer Term</b>		SIP301		Summer Internship Program-III				0	0	5
		<b>SEMESTER VII</b>			<b>SEMESTER VIII</b>					
<b>YEAR</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>P</b>	<b>U</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>P</b>	<b>U</b>
IV	CE323	Design of Steel Structures II	3	0	3	CE452T	Environmental Engineering II	3	0	3
	CE413	Construction Planning and Management	3	0	3	CE452P	Environmental Engineering II Practical	0	3	2
	CE419	Transportation Engineering II	3	0	3	CE433	Irrigation and Water Resource Engineering	3	0	3
	CE431	Engineering Hydrology	3	0	3	CE492	Special Project II	0	0	5
	CE434	Computer Aided Design Practical	0	3	2	GV401	Grand Viva	0	0	3
	CE451	Environmental Engineering I	3	0	3	CE***	Elective	3	0	3
	CE491	Special Project I	0	0	5					

**Elective Courses for B.Tech in Civil Engineering:**

SI No	COURSE CODE	COURSE TITLE	L	P	U
1	CE403	Design and Drawing of Hydraulic Structures	3	0	3

  
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2	CE404	Design of Bridge Structures	3	0	3
3	CE406	Finite Element Methods in Civil Engineering	3	0	3
4	CE407	Ground Improvement Techniques	3	0	3
5	CE409	Pavement Analysis and Design	3	0	3
6	CE410	Advanced Structural Analysis	3	0	3
7	CE414	Prestressed Concrete	3	0	3
8	CE416	Soil Dynamics and Machine Foundations	3	0	3
9	CE417	Structural Dynamics	3	0	3

  
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