

**Modified (Revised) UG Course Curriculum of Department of Civil Engineering for 2016 Batch Students Onwards**

<b>Semester I</b>		
<b>Course No.</b>	<b>Course Name</b>	<b>L-T-P-C</b>
CH 101	Chemistry	3-1-0-8
EE 101	Electrical Sciences	3-1-0-8
MA 101	Mathematics I	3-1-0-8
PH 101	Physics I	2-1-0-6
CH 110	Chemistry Laboratory	0-0-3-3
ME 110/ PH 110	Workshop / Physics Laboratory	0-0-3-3
ME 111	Engineering Drawing	1-0-3-5
SA 101	Physical Training I	0-0-2-0
	<b>Total Credits</b>	<b>12-4-9-41</b>

<b>Semester II</b>		
<b>Course No.</b>	<b>Course Name</b>	<b>L-T-P-C</b>
BT 101	Modern Biology	3-0-0-6
CS 101	Introduction to Computing	3-0-0-6
MA 102	Mathematics II	3-1-0-8
ME 101	Engineering Mechanics	3-1-0-8
PH 102	Physics II	2-1-0-6
CS 110	Computing Laboratory	0-0-3-3
EE 102	Basic Electronics Laboratory	0-0-3-3
PH 110/ME 110	Physics Laboratory / Workshop	0-0-3-3
SA 102	Physical Training II	0-0-2-0
	<b>Total Credits</b>	<b>14-3-9-43</b>

<b>Semester III</b>		
<b>Course No.</b>	<b>Course Name</b>	<b>L-T-P-C</b>
MA 201	Mathematics III	3-1-0-8
CE 202	Solid Mechanics	3-1-0-8
CE 211	Civil Engineering Materials	3-0-0-6
CE 212	Civil Engineering Materials Lab	0-0-3-3
CE 203	Fluid Mechanics*	3-0-0-6
CE 214	Fluid Mechanics Laboratory*	0-0-2-2
HS 2xx	HSS Elective I	3-0-0-6
	<b>NCC/NSO/COS</b>	<b>0-0-2-0</b>
	<b>Total Credits</b>	<b>15-2-5-39</b>

Note: \* These courses were earlier in 4<sup>th</sup> Semester.

<b>Semester IV</b>		
<b>Course No.</b>	<b>Course Name</b>	<b>L-T-P-C</b>
CE 205	Structural Analysis I	3-0-0-6
CE 201	Surveying	3-0-0-6
<b>CE 213</b>	<b>Surveying Laboratory</b>	<b>0-0-2-2*</b>
CE 206	Geotechnical Engineering I	3-0-0-6
CE 215	Geotechnical Engineering I Laboratory	0-0-2-2
<b>CE 307 (222)</b>	Environmental Engineering I <sup>@</sup>	3-0-0-6
<b>CE 315 (223)</b>	Environmental Engineering I Laboratory <sup>@</sup>	0-0-2-2*
<b>CE 304 (220)</b>	Hydraulics and Hydraulic Structures <sup>@@</sup>	3-0-0-6**
<b>CE 342 (221)</b>	Hydraulics and Hydraulic Structures Laboratory <sup>@@</sup>	0-0-2-2
<b>HS 2xx</b>	<b>HSS Elective II</b>	<b>3-0-0-6</b>
	<b>NCC/NSO/COS</b>	<b>0-0-2-0</b>
	<b>Total Credits</b>	<b>18-0-8-44***</b>

Note: \* Credit has been reduced from earlier 0-0-3-3 to 0-0-2-2 now.  
 \*\* Credit has been reduced from earlier 3-1-0-8 to 3-0-0-6 now.  
 \*\*\* Total credits increased from earlier 15-0-7-37 to 18-0-8-44 now.  
 @ These courses earlier were in 6<sup>th</sup> Semester. @@ These courses earlier were in 5<sup>th</sup> Semester.

<b>Semester V</b>		
<b>Course No.</b>	<b>Course Name</b>	<b>L-T-P-C</b>
CE 302	Structural Analysis II	3-1-0-8
CE 305	Reinforced Concrete Design	3-1-0-8
CE 303	Geotechnical Engineering II	3-0-0-6
CE 313	Geotechnical Engineering II Laboratory	0-0-2-2
CE 304	Transportation Engineering I	3-0-0-6
CE 314	Transportation Engineering I Laboratory	0-0-2-2
<b>CE 404 (316)</b>	Environmental Engineering II	3-0-0-6
<b>HS 3xx</b>	<b>HSS Elective III</b>	<b>3-0-0-6</b>
	<b>Total Credits</b>	<b>18-2-4-44</b>

Note: \* These courses were earlier in 6<sup>th</sup> Semester.  
 \*\* This course was earlier in 7<sup>th</sup> Semester.  
 \*\*\* Total credits increased from earlier 15-3-4-40 to 18-2-4-44 now.

<b>Semester VI</b>		
<b>Course No.</b>	<b>Course Name</b>	<b>L-T-P-C</b>
CE 308	Construction Technology and Management	3-0-0-6
<b>CE 207 (324)</b>	Engineering Geology*	3-0-2-8
CE 309	Design of Steel Structures	3-1-0-8
<b>CE 403 (322)</b>	Transportation Engineering II*	3-0-0-6
<b>CE 410 (323)</b>	Transportation Engineering II Laboratory*	0-0-2-2
<b>CE 311(320)</b>	<b>Engineering Hydrology @</b>	<b>3-0-0-6</b>
<b>CE 321</b>	<b>Hydrology Laboratory @</b>	<b>0-0-2-2</b>
	<b>Total Credits</b>	<b>15-1-6-38***</b>

Note: \* New departmental core course.  
 \*\* These courses were earlier in 7<sup>th</sup> Semester.  
 @ These courses have been created by modifying an earlier 6<sup>th</sup> Semester departmental core course viz. CE 311 : Hydrology and Water Resources Engineering (3-0-0-6).  
 \*\*\* Total credits increased from earlier 15-1-5-37 to 15-1-6-38 now.

<b>Semester VII</b>		
<b>Course No.</b>	<b>Course Name</b>	<b>L-T-P-C</b>
CE 498	Project (Phase-1)*	0-0-7-7
CE 402	Design Project**	1-0-3-5
CE xxx	Departmental Elective I	3-0-0-6
CE xxx	Departmental Elective II	3-0-0-6
XX xxx	Open Elective I	3-0-0-6
	<b>Total Credits</b>	<b>10-0-10-30***</b>

Note: \* It is a new course. Earlier course CE 400 : Introduction to Project (0-0-3-3) has been eliminated.

\*\* This course was earlier in 8<sup>th</sup> Semester.

\*\*\* Total credits were reduced from earlier 15-0-5-35 to 10-0-10-30 now.

<b>Semester VIII</b>		
<b>Course No.</b>	<b>Course Name</b>	<b>L-T-P-C</b>
CE xxx	Departmental Elective III	3-0-0-6
CE xxx	Departmental Elective IV	3-0-0-6
HS 4xx	HSS Elective IV	3-0-0-6
XX xxx	Open Elective II	3-0-0-6
CE 499	Project (Phase 2)	0-0-7-7*
	<b>Total Credits</b>	<b>12-0-7-31**</b>

Note: \* Project (Phase-1) (0-0-7-7) introduced in 7<sup>th</sup> Semester, and Project (Phase-2) (0-0-7-7) is introduced in 8<sup>th</sup> Semester; making total credits allocated for B. Tech. Project equal to 14.

\*\* Total credits were reduced from earlier 13-0-13-39 to 12-0-7-31 now. **Overall programme credit stood at 310 against 311 earlier.**