

**COURSE STRUCTURE
AND
DETAILED SYLLABUS**

R16

CIVIL ENGINEERING

For

B.TECH. FOUR YEAR DEGREE COURSE

(Applicable for the students admitted into Academic Year 2017-18)

(I – IV Years Syllabus)



RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES

Basar, Nirmal, Telangana – 504107

COURSE STRUCTURE (R16) FOR B.TECH.(REGULAR)

**Applicable for the students of B.Tech. (Regular) from the Academic
Year 2017-18 and onwards**

I YEAR

I SEMESTER

Subject Code	Course Name	L-T-P	Credits
MA1101	Mathematics-I	4-0-0	4
CE1101	Engineering Mechanics-I	4-0-0	4
HS1001	English	4-0-0	4
PH1001	Physics	4-0-0	4
CS1101	C-Programming	4-0-0	4
HS1601	English Lab	0-0-3	2
PH1601	Physics Lab	0-0-3	2
CS1701	C-Programming Lab	0-0-3	2
HS1101	Communication skills-I	2-0-0	1
Total		20-0-12	27

I YEAR

II SEMESTER

Subject Code	Course Name	L-T-P	Credits
MA1201	Mathematics-II	4-0-0	4
ME1201	Engineering Mechanics-II	4-0-0	4
CE1001	Engineering Drawing	4-0-0	4
CY1001	Chemistry	4-0-0	4
CS1201	Introduction to Python Programming	4-0-0	4
CY1601	Chemistry Lab	0-0-3	2
HS1201	Communication skills-II	2-0-0	1
ME1601	Engineering Workshop	0-0-3	2
Total		22-0-6	25

**II YEAR
I SEMESTER**

Subject Code	Course Name	L-T-P	Credits
CE2101	Surveying	4-0-0	4
CE2102	Building Materials and Concrete Technology	4-0-0	4
CE2103	Mechanics of Materials	4-1-0	4
CE2104	Mechanics of Fluids	4-1-0	4
MA2103	Mathematics-III	4-0-0	4
HS2101	Softskills-I	2-0-0	1
CE2701	Surveying Lab	0-0-3	2
CE2702	Mechanics of Fluids Lab	0-0-3	2
CE2703	Materials Testing Lab	0-0-3	2
CE2901	Seminar-I	0-0-2	1
Total		20-2-11	28

**II YEAR
II SEMESTER**

Subject Code	Course Name	L-T-P	Credits
CE2201	Hydraulic Engineering	4-1-0	4
CE2202	Geo Science	4-0-0	4
CE2203	Structural Analysis-I	4-1-0	4
CE2204	Design of Concrete Structures	4-0-0	4
BSBE2001	Environmental Science	4-0-0	4
CE2801	Hydraulic Engineering Lab	0-0-3	2
CE2802	Concrete Lab	0-0-3	2
BM2101	Personality Development-I	2-0-0	1
CE2803	Geo Science Lab	0-0-3	2
CE2902	Seminar-II	0-0-2	1
HS1201	Communication skills-II	2-0-0	1
Total		20-2-11	29

*SURVEYING CAMP HAS TO BE
CONDUCTED
FOR 1 WEEK DURING
SEMESTER GAP

**III YEAR
I SEMESTER**

Subject Code	Course Name	L-T-P	Credits
CE3101	Hydrology and Irrigation Engineering	4-0-0	4
CE3102	Structural Analysis-II	4-0-0	4
CE3103	Transportation Engineering-I	4-0-0	4
CE3104	Soil Mechanics	4-0-0	4
CE3105	Design of Steel Structures	4-0-0	4
CE3701	Transportation Engineering Lab	0-0-3	2
BM3101	Personality Development-II	2-0-0	1
CE3702	Soil Mechanics Lab	0-0-3	2
CE3901	Seminar-III	0-0-2	1
CE3900	Survey Camp	1 Week	2
Total		22-0-8	28

**III YEAR
II SEMESTER**

Subject Code	Course Name	L-T-P	Credits
CE3201	Construction Engineering, Estimation and Specifications	4-2-0	4
CE3202	Transportation Engineering-II	4-0-0	4
CE3203	Environmental Engineering	4-0-0	4
CS3001	Object Oriented Programming structures through Java	4-0-0	4
CE3204	Foundation Engineering	4-0-0	4
CE3801	Environmental Engineering Lab	0-0-3	2
CS3601	Object Oriented Programming structures through Java Lab	0-0-3	2
CE3902	Seminar-IV	0-0-2	1
CE3000	Comprehensive Viva-I	0-0-2	1
HS3201	Softskills-II	2-0-0	1
Total		20-2-10	27

**IV YEAR
I SEMESTER**

Subject Code	Course Name	(L-T)-P	Credits
BM4001	Managerial Economics and Financial Analysis	4-0-0	3
CE4101	Structural Design (Concrete)	4-0-0	4
CE4102	Water Resource Engineering	4-0-0	4
CE440x	Elective-I	4-0-0	3
CE441X	Elective-II	4-0-0	3
CE3900	Summer Internship	0-0-30	6
Total		20-0-0	23

Elective- I

CE4401	Finite Element Method	4-0-0	3
CE4402	Remote Sensing and GIS	4-0-0	3
CE4403	Geotechnical earthquake engineering	4-0-0	3
CE4404	Disaster Management	4-0-0	3

Elective –II

CE4411	Structural Dynamics	4-0-0	3
CE4412	Prestressed concrete	4-0-0	3
CE4413	Ground improvement techniques	4-0-0	3
CE4414	Hydraulics structures	4-0-0	3

**IV YEAR
II SEMESTER**

Subject Code	Course Name	(L-T)-P	Credits
XXxxxx	Open electice-I	4-0-0	3
CE4800	Project	0-0-24	16
CE4000	Comprehensive Viva-II	0-0-2	1
Total		4-0-26	20