

**COURSE STRUCTURE
AND
DETAILED SYLLABUS**

R19

CIVIL ENGINEERING

For

B.TECH. FOUR YEAR DEGREE COURSE

(Applicable for the students admitted into Academic Year 2019-20)

(I – IV Years Syllabus)



RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES

Basar, Nirmal, Telangana - 504107

COURSE STRUCTURE (R19) FOR B.TECH.(REGULAR)

**Applicable for the students of B.Tech. (Regular) from the Academic
Year 2019-20 and onwards**

I YEAR

I SEMESTER

Subject Code	Course Name	L-T-P	Credits	Category
MA1101	Linear Algebra and Calculus	3-1-0	4	BSC
CE1701	Engineering Graphics & Design	0-0-6	3	ESC
HS1101	English	2-0-0	2	HSMC
PH1101	Physics	4-0-0	4	BSC
EE1102	Basic Electrical And Electronic Engineering	3-1-0	4	ESC
CE1101	Introduction To Civil Engineering	2-0-0	2	HSMC
HS1701	English Lab	0-0-2	1	HSMC
PH1601	Physics Lab	0-0-3	1.5	BSC
EE1702	Basic Electrical And Electronic Engineering Lab	0-0-2	1	ESC
Total		14-2-13	22.5	

I YEAR

II SEMESTER

Subject Code	Course Name	L-T-P	Credits	Category
MA1201	Differential Equations and Vector Calculus	3-1-0	4	BSC
CE1201	Engineering Mechanics	4-0-0	4	ESC
CS1201	Programming For ProblemSolving	3-0-0	3	ESC
ME1203	Workshop ManufacturingPractices	2-0-0	2	ESC
CY1204	Chemistry	4-0-0	4	BSC
CS1801	Programming For ProblemSolving Lab	0-0-4	2	ESC
CY1802	Chemistry Lab	0-0-3	1.5	BSC
ME1203	Workshop ManufacturingPractices Lab	0-0-2	1	ESC
Total		16-2-9	21.5	

**II YEAR
I SEMESTER**

Subject Code	Course Name	L-T-P	Credits	Category
CE2101	Surveying	3-0-0	3	PCC
CE2102	Building Materials and Concrete Technology	3-0-0	3	PCC
CE2103	Mechanics of Materials	3-1-0	4	PCC
CE2104	Fluid Mechanics	3-1-0	4	PCC
MA2103	Probability and Statistics	3-1-0	4	BSC
BS2102	Environmental Science	2-0-0	2	MC
CE2701	Mechanics of Fluids Lab	0-0-2	1	PCC
CE2702	Materials Testing Lab	0-0-2	1	PCC
CE2703	Concrete Technology Lab	0-0-2	1	PCC
CE2901	Technical Seminar-I	0-0-0	0	
Total		17-3-6	23	

**II YEAR
II SEMESTER**

Subject Code	Course Name	L-T-P	Credits	Category
CE2201	Hydraulic Engineering	4-0-0	4	PCC
CE2202	Engineering Geology	3-1-0	4	PCC
CE2203	Structural Analysis-I	3-0-0	3	PCC
CE2204	Design of Concrete Structures	3-0-0	3	PCC
CE2205	Civil Engineering-Societal and Global Impact	2-0-0	2	HSMC
CE2801	Hydraulic Engineering Lab	0-0-2	1	PCC
CE2802	Computer Aided Drafting of Buildings Lab	0-0-3	1.5	PCC
HS2202	Effective Technical Communication Lab-I	0-0-2	1	HSMC
CE2902	Technical Seminar-II	0-0-0	0	
Total		15-1-7	19.5	

**III YEAR
I SEMESTER**

Subject Code	Course Name	L-T-P	Credits	Category
CE3101	Estimation and Costing	3-0-0	3	PCC
CE3102	Structural Analysis-II	3-1-0	4	PCC
CE3103	Highway and Traffic Engineering	3-0-0	3	PCC
CE3104	Soil Mechanics	3-0-0	3	PCC
CE3105	Design of Steel Structures	3-0-0	3	PCC
CE3106	Water Resources Engineering	4-0-0	4	PCC
CE3701	Highway Engineering Lab	0-0-2	1	PCC
CE3702	Soil Mechanics Lab	0-0-2	1	PCC
CE3901	Technical Seminar-III	0-0-0	0	
	Survey Camp	0-0-0	1	PCC
	Total	19-1-4	23	

**III YEAR
II SEMESTER**

Subject Code	Course Name	L-T-P	Credits	Category
CE3201	Construction Planning And Management	3-0-0	3	PCC
CE3202	Environmental Engineering	3-0-0	3	PCC
CE32xx	Professional Elective-I	3-0-0	3	PEC
CE32xx	Professional Elective-II	3-0-0	3	PEC
XXxxxx	Open Elective-I	3-0-0	3	OEC
HS3201	Effective Technical Communication Lab-II	0-0-2	1	HSMC
CE3801	Computational Analysis Lab	0-0-2	1	PCC
CE3802	Environmental Engineering Lab	0-0-2	1	PCC
CE3902	Technical Seminar-IV	0-0-0	0	
	Total	15-0-6	18	

**IV YEAR
I SEMESTER**

Subject Code	Course Name	(L-T)-P	Credits	Category
HS4101	Professional Practice, Law & Ethics	2-0-0	2	HSMC
CE4101	Remote Sensing and GIS	3-0-2	4	PCC
CE41xx	Professional Elective-III	3-0-0	3	PEC
CE41xx	Professional Elective-IV	3-0-0	3	PEC
XXxxxx	Open Elective-II	3-0-0	3	OEC
CE3900	Internship		2	
CE4800	Project Stage –I		6	
Total		14-0-2	23	

**IV YEAR
II SEMESTER**

Subject Code	Course Name	(L-T)-P	Credits	Category
CE42xx	Professional Elective-V	3-0-0	3	PEC
XXxxxx	Open Elective-III	3-0-0	3	OEC
XXxxxx	Open Elective-IV	3-0-0	3	OEC
CE4900	Project Stage-II		6	
CE4000	Comprehensive Viva		1	
Total		9-0-0	16	

Total Number of Credits – 166.5