

Modified E2 (R13) Curriculum for Dept. of Civil Engineering (RKV Campus)

E1 Sem1

Name of the course	Credits
Engineering mechanics	4
Surveying –I	4
Engineering Mathematics 1	4
Engineering Drawing	4
Geo science	4
Surveying-I lab	2
Geo science Lab	2
Total Credits	24

E1 Sem2

Name of the course	Credits
Mechanics of Solids-I	4
Fluid Mechanics	4
Engineering Mathematics-II	4
Surveying -II	4
Building Materials and Construction	4
Mechanics of solids-I Lab	2
Surveying-II Lab	2
Total Credits	24

E1 Summer Sem

Name of the course	Credits
Soft skills	2
Advanced English	2
Total Credits	4

E2 Sem1

Name of the course	Credits
Structural Analysis-I	4
Mechanics of Solids-II	4
Water Resources Engineering-I	4
Hydraulics Engineering	4
Engineering Mathematics -III	4
Building Materials and Construction Lab	2
Hydraulics Engineering Lab	2
Total Credits	24

E2 Sem2

Name of the course	Credits
Design of Reinforced Concrete Structures	4
Design of Steel Structures	4
Transportation Engineering	4
Soil Mechanics	4

Environmental Engineering	4
Soil Mechanics Lab	2
Transportation Engineering Lab	2
Environmental Engineering Lab	2
Advanced English-I Lab	2
Total Credits	28
E2 Summer Sem	
Name of the course	Credits
C Programming and Data Structures	4
C Programming and Data Structures Lab	2
Total Credits	6
E3 Sem1	
Name of the course	Credits
Elective+Lab	6
Elective	4
Elective	4
Free Elective	4
Mini Project	4
Total Credits	22
E3 Sem2	
Name of the course	Credits
Elective	4
Elective	4
Elective	4
Free Elective	4
Mini Project	4
Total Credits	20
E3 Summer Sem	
Name of the course	Credits
Summer Internship	4
Total Credits	4
E4 Sem1	
Name of the course	Credits
Elective	4
Elective	4
Free Elective	4
Project	6
Total Credits	18
E4 Sem2	
Name of the course	Credits
Elective	4
Elective	4
Free Elective	4
Community Service	2

Project	6
Total Credits	20
Grand Total Credits	194

Building Science (Compulsory in E3S1)	4
Civil Engineering Drawing Lab (Compulsory in E3S1)	2

List of Electives during E3 & E4 Semesters	
Name of the course	Credits
Probability Methods in Civil Engineering	4
Pre-stressed concrete	4
Advanced Concrete Technology	4
Advanced Structural Analysis	4
Introduction to Finite Element Analysis	4
Railway and Airport Engineering	4
Traffic Engineering and Management	4
Pavement Analysis and Design	4
Urban Transport Planning	4
Ground Improvement Techniques	4
Advanced Geo-Technical Engineering	4
Advanced Foundation Engineering	4
Pavement Materials characterisation	4
Air Pollution and Control	4
Environmental Impact Assessment	4
Solid and Hazardous Waste Management	4
Sustainable River Development	4
Water Resource Engineering - II	4
Ground Water Hydrology	4
Water Resource Systems	4
Remote Sensing and Geographical Information System	4
Watershed Management	4
Structural dynamics	4
Estimation & Costing (Compulsory E3Sem2)	4
Introduction to Construction Management	4
Construction Economics & Finance	4
Introduction to earthquake Engineering	4
Advanced hydraulics	4
Infrastructure Planning and Management	4
Rock Engineering	4
Foundation Engineering (Compulsory E3 Sem1)	4
Building Planning and Drawing (Compulsory for E3 Sem1)	4
Construction Planning and Scheduling (Compulsory for E3 Sem2)	4