

**Modified E1 (R14) Curriculum for Dept. of Civil Engineering
(RKV Campus)**

E1 Sem1

Name of the course	Credits
Engineering Mechanics	4
Surveying-I	4
Engineering Drawing	4
Mathematics-I	4
Geoscience (Engineering Geology)	4
Surveying-I Lab	2
Geoscience Lab	2
Managerial Economics	4
Total Credits	28

E1 Sem2

Name of the course	Credits
Mechanics of Solids-I	4
Fluid Mechanics	4
Engineering Mathematics -II	4
Building Materials and Concrete Technology	4
Advanced English-I Lab	2
Mechanics of Materials Lab	2
Building Materials and Concrete Technology Lab	2
C Programming and Data Structures	4
C Programming and Data Structures Lab	2
Total Credits	28

E1 Summer Sem

Name of the course	Credits
Workshop	2
Probability and Statistics	4
Total Credits	6

E2 Sem1

Name of the course	Credits
Structural Analysis	4
Soil Mechanics	4
Water Resources Engineering	4
Building Planning and Drawing	4
Hydraulics Engineering	4
Advanced English-II Lab	2
Soil Mechanics Lab	2
Hydraulics Engineering Lab	2
Total Credits	26

E2 Sem2

Name of the course	Credits
Design of Reinforced Concrete Structures	4

Design of Steel Structures	4
Transportation Engineering	4
Foundation Engineering	4
Environmental Engineering	4
Transportation Engineering Lab	2
Advanced English-III Lab	2
Environmental Engineering Lab	2
Total Credits	26
E2 Summer Sem	
Name of the course	Credits
Skill Development Programme	2
Computer Aided Building Drawing Lab	2
Total Credits	4
E3 Sem1	
Name of the course	Credits
Elective	4
Elective	4
Elective	4
Free Elective	4
Mini Project	4
Total Credits	20
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	200

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	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