

Modified E3 (R12) Curriculum for Dept. of Civil Engineering	
E1 Sem1	
Name of the course	Credits
Mathematics-1	4
Physics	4
English for Communication	3
Electrical Technology	4
Introduction for Manufacturing process and WSP	3
Physics Lab	2
Electrical Technology Lab	2
Total Credits	22
E1 Sem2	
Name of the course	Credits
Mathematics-II	4
Engineering Mechanics	3
Chemistry	4
Programming and Data structures	4
Engineering Drawing and Graphics	3
Chemistry Lab	2
Programming and Data structures Lab	2
Total Credits	22
E2 Sem1	
Name of the course	Credits
Mechanics of Solids	4
Surveying	4
Environmental Science	4
Building Materials and Construction	4
Transportation Engineering-I	4
Mechanics of Solids lab	2
Surveying Lab	2
Total Credits	24
E2 Sem2	
Name of the course	Credits
Structural Analysis-I	4
Fluid Mechanics	4
Soil Mechanics	4
Geoscience	4
Transportation Engineering-II	4
Transportation Engineering Lab	2
Building Materials and Construction Lab	2
Total Credits	24
E2 Summer Sem	
Name of the course	Credits
Foundation of Management	4

Skill development	2
Total Credits	6
E3 Sem1	
Name of the course	Credits
Structural Analysis-II	4
Water Resources Engineering-I	4
Design of Concrete Structures-I	4
Foundation Engineering	4
Hydraulics	4
Soil Mechanics Lab	2
Hydraulics Lab	2
Total Credits	24
E3 Sem2	
Name of the course	Credits
Elective + Lab	6
Elective + Lab	6
Elective	4
Free Elective	4
Mini Project	4
Total Credits	24
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
Comprehensive Viva	2
Project	6
Total Credits	20
Grand Total Creditis	188

Environmental Engineering-I (Compulsory in E3S2)	4
Water Resources Engineering-II (Compulsory in E3S2)	4

Design of Steel Structures (Compulsory in E3S2)	4
Environmental Engineering Lab (Compulsory in E3S2)	2
Design of Concrete Structures-II (Compulsory in E4S1)	4
Building Science (Compulsory in E3S2)	4
Civil Engineering Drawing Lab (Compulsory in E3S2)	2

List of Electives during E4	
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
Sanitary Engineering (Environmental Engineering-II)	4
Construction Planning and Scheduling	4