

Curriculum

Civil Engineering

Semester	Subjects	Credits
1	Mathematics-I for Civil Engg stream	4
	Applied Physics for Civil Engineering Stream	4
	Engineering Mechanics	3
	Engineering Science Course-I	3
	Emerging Technology Course-I or Programming Language Course-I	3
	Communicative English or Professional Writing Skills in English	1
	Sanskrutika Kannada/ Balake Kannada or Indian Constitution	1
	Innovation and Design Thinking or Scientific Foundations of Health	1
2	Mathematics-II for Civil Engg Stream	4
	Applied Chemistry for Civil Engineering stream	4
	Computer-Aided Engineering Drawing	3
	Engineering Science Course-II	3
	Programming Language Course-II or Emerging Technology Course-II	3
	Communicative English or Professional Writing Skills in English	1
	Sanskrutika Kannada/ Balake Kannada or Indian Constitution	1
	Innovation and Design Thinking or Scientific Foundations of Health	1
3	Complex variables, probability & sampling techniques	3
	Mechanics of Solids	3
	Mechanics of 67	3
	Building materials and construction technology	3
	Geological Engineering and Practice	3
	Planning and designing of buildings	3
	Basic material testing and concrete laboratory	1
	Mechanics of Fluids Laboratory	1
4	Transform Calculus and Numerical Techniques	3
	Engineering Survey	3
	Environmental Engineering	3
	Structural Analysis	3
	Sustainability and green construction	3
	Analysis of structures by using software	3
	Engineering Survey laboratory	1
	Environmental Engineering laboratory	1
5	Construction management	3
	Design and drawing of RCC Elements	4
	Geotechnical Engineering	3
	Hydrology and Irrigation Engineering	3
	Program elective 1	3
	Extensive survey	2
	Environmental Science	1
	Universal Human Values	1
6	Geotechnical Engineering laboratory	1
	Estimation–Costing and Engineering Economics	3
	Advanced Geotechnical Engineering	3
	Transportation Engineering	3
	Program elective 2	3
	Open elective 1	3
	Mini Project	2
	Project management software laboratory	1
7	Transportation Engineering laboratory	1
	Finite Element Method	3
	Design and drawing of Steel Elements	4
	Design & Drawing of Transportation & Irrigation sub structures	4
	Program elective 3	3
	Open elective 2	3
	Project work phase – I	2
8	Design and drawing of RCC and steel structures	4
	Program elective 4	3
	Program elective 5	3
	Project work phase – II	8
	Internship	2

Electives
Advanced Structural Mechanics
Ground Water Hydrology
Environmental Impact Assessment
Advanced Construction Materials, Equipment and Technology
Structural Dynamics and Earthquake Engineering
Water Resources Engineering
Ground Improvement Techniques
Geospatial surveying
Advanced design of RCC structures
Pavement Design and Maintenance
Advanced Foundation Engineering
Integrated Water Resources Modeling and Management
Design of PSC and RCC bridges
Solid Waste Management
Urban Transport and intelligent transportation systems
Deep foundations
Advanced Design Steel Structures
Economic Evaluation and DPR
Pavement construction, maintenance & management
Geo-environmental Engineering