

Faculty of Engineering, School of Civil & Chemical Engineering

Department of Civil Engineering

Degree: B. Tech. Civil Engineering

Total Credit: 160

	Third Semester						Fourth Semester				
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
MAS21XX/ MEE22XX	Statistics & Probability/ Engineering Economics	3	0	0	3	MAS21XX / MEE22XX	Statistics & Probability/ Engineering Economics	3	0	0	3
MBB21XX	Management of Technology	3	0	0	3	CIV2201	Structural Analysis	3	1	0	4
CIV2101	Fluid Mechanics	4	0	0	4	CIV2202	Environmental Engineering	3	1	0	4
CIV2102	Surveying and Practices	3	0	3	4	CIV2220/ XX22XX	Construction Project Management/ Relational Database Management Systems	4	0	0	4
CIV2103	Strength of Materials	3	1	0	4	CIV22XX	Program Elective 1	3	0	0	3
CIV2120/ XX21XX	Concrete & Construction Technology/ Data Structures and Algorithm	4	0	0	4	CIV00XX	Open Elective 1	3	0	0	3
CIV2130	Material Testing Lab	0	0	2	1	CIV2230	Environmental Engineering Lab	0	0	2	1
CIV2131	Fluid Mechanics Lab	0	0	2	1	CIV2231	Building Drawing Lab	0	0	2	1
CIV2170	Project-based Learning 1	0	0	2	1	CIV2270	Project-based Learning 2	0	0	2	1
		20	1	9	25			19	2	6	24
	Total Contact Hours (L+T+P)	30					Total Contact Hours (L+T+P)	27			
	Fifth Semester						Sixth Semester				
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
CIV3101	Geotechnical Engineering	3	1	0	4	CIV32XX	Water Resources Engineering	3	1	0	4
CIV3102	Design of Reinforced Concrete Structures	3	1	0	4	CIV32XX	Program Elective 4	3	0	0	3
CIV3120 /XX31XX	Highway Engineering/ Object Oriented Programming	3	1	0	4	CIV32XX	Program Elective 5	3	0	0	3
CIV31XX	Program Elective 2	3	0	0	3	CIV32XX	Program Elective 6	3	0	0	3
CIV31XX	Program Elective 3	3	0	0	3	CIV00XX	Open Elective 3	3	0	0	3
CIV00XX	Open Elective 2	3	0	0	3	CIV3230	Professional Practice	0	0	2	1
CIV3130	Geotechnical Engineering Lab	0	0	2	1	CIV3231	Computer Aided Design Lab	0	0	2	1
CIV3131	Highway Engineering Lab	0	0	2	1	CIV3232	Estimating and Costing Practice	0	0	2	1
CIV3170	Project-based Learning 3	0	0	2	1	CIV3270	Project-based Learning 4	0	0	2	3
		18	3	6	24			15	1	8	22
	Total Contact Hours (L+T+P)	27					Total Contact Hours (L+T+P)	24			

Faculty of Engineering, School of Civil & Chemical Engineering

Department of Civil Engineering

Degree: B. Tech. Civil Engineering

Total Credit: 160

Seventh Semester						Eighth Semester					
Code	Subject Name	L	T	P	C	Code	Subject Name	L	T	P	C
CIV41XX	Program Elective 7	3	0	0	3	CIV4270	Major Project	0	0	24	12
CIV41XX	Program Elective 8	3	0	0	3						
CIV00XX	Open Elective 4	3	0	0	3						
CIV00XX	Open Elective 5	3	0	0	3						
CIV4170	Internship (Industry or Research)	0	0	2	1						
		12	0	2	13						12
	Total Contact Hours (L+T+P)	14					Total Contact Hours (L+T+P)	24			

Flexi Core

Flexi Core 1 (III Sem)	Flexi Core 2 (IV Sem)	Flexi Core 3 (V Sem)
CIV2120: Concrete & Construction Technology XX21XX: Data Structures and Algorithm	CIV2220: Construction Project Management XX22XX: Relational Database Management Systems	CIV3120: Highway Engineering XX31XX: Object Oriented Programming

Program Electives

IV	V	VI	VII
<u>Example - PE1</u> CIV2240: Remote Sensing and Geographic Information System CIV2241: Computational Hydraulics CIV2242: Engineering Geology	<u>Example - PE2</u> CIV3140: Wastewater Treatment techniques CIV3141: Advanced Concrete Technology CIV3142: Building Information Modeling <u>Example – PE3</u> CIV3143: Lean Construction Technology CIV3144: Advance Structural Analysis CIV3145: Repair and Rehabilitation of Structures	<u>Example - PE 4</u> CIV3240: Railway and Airport Engineering CIV3241: Design of Steel Structures CIV3242: Real Estate Valuation <u>Example - PE5</u> CIV3243: Applied Geotechnical Engineering CIV3244: Advance Reinforced Cement Concrete CIV3245: Environmental Impact Assessment <u>Example – PE6</u> CIV3246: Contract Management and Arbitration CIV3247: Earthquake Resistant Design of Structures CIV3248: Hazardous Waste Management	<u>Example - PE 7</u> CIV4140: Traffic Systems and Engineering CIV4141: Design of Pre-stressed Concrete Structures CIV4142: Photogrammetry <u>Example - PE8</u> CIV4143: Bridge Engineering CIV4144: Finite Element Method CIV4145: Remote Sensing and GIS for Rural Development

Faculty of Engineering, School of Civil & Chemical Engineering

Department of Civil Engineering

Degree: B. Tech. Civil Engineering

Total Credit: 160

Open Electives	
Graded OE	Non-Graded OE
CIV0001: Basics of Remote Sensing and GIS CIV0002: Integrated Waste Management for a Smart City CIV0003: Introduction to Multimodal Urban Transportation Systems CIV0004: Environmental Impact CIV0005: Building Planning CIV0006: Environmental Management CIV0007: Solid Waste Management CIV0008: Rural Water Supply and Sanitation	OE1: Course Name OE2: Course Name OE3: Course Name OE4: Course Name OE5: Course Name

ⁱ Statistics & Probability: CSE, AIML, SEEC students will take in 3rd semester. Engineering Economics: SIT, SCCE, All Core (-) SEEC will take in 3rd semester. In 4th semester, these courses are switched.