

**Curriculum of B.Sc. Engineering Honours Degree Programme  
Civil Engineering Specialization  
Department of Civil Engineering**

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation	
					GPA	NGPA	GPA	NGPA	CA%	WE%
<b>Semester 1</b>										
MA1013	Mathematics	C	3.0	1/1	3.0		15.0	1.0	20	80
CS1032	Programming Fundamentals	C	2.0	3/1	3.0				20	80
ME1032	Mechanics	C	2.0	3/4	2.0				20	80
MT1022	Properties of Materials	C	2.0	3/4	2.0				20	80
CE1022	Fluid Mechanics	C	2.0	3/4	2.0				20	80
EE1012	Electrical Engineering	C	2.0	3/4	2.0				20	80
EL1012	Language Skill Enhancement I	C	-	3/1	1.0				20	80
MN1012	Engineering in Context	C	1.0	0	-	1.0			30	70
<b>Total for Semester 1</b>					15.0	1.0	<b>15.0</b>	<b>1.0</b>		
<b>Semester 2</b>										
MA1023	Methods of Mathematics	C	3.0	1/1	3.0		15.0	0.0	30	70
CE1112	Structural Mechanics I	C	2.5	3/2	3.0				30	70
CE1122	Fluid Mechanics II	C	2.5	3/2	3.0				30	70
CE1132	Building Construction and Materials	C	2.0	3/1	3.0				30	70
ME1812	Basic Thermal Sciences	C	2.0	-	2.0				30	70
EL 1022	Language Skill Enhancement II	C	-	3/1	1.0				20	80
CS2850	Visual Programming and Applications	E	1.0	3/1		2.0			100	-
CE2712	Building Design Process & Applications	E	1.0	3/1		2.0			30	70
MN1030	Entrepreneurship Skill Development (continuing)	E	0.5	3/2		1.0	2.0	70	30	
DE2XXX	Humanities Electives 1	E	-	-	2.0		2.0	0.0		
<b>Total for Semester 2</b>					17.0	5.0	<b>17.0</b>	<b>2.0</b>		

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<b>Semester 3</b>											
MA2013	Differential Equations	C	2.0	-	2.0				30	70	
MA2023	Calculus	C	2.0	-	2.0				30	70	
CE2012	Structural Mechanics II	C	2.5	3/2	3.0				30	70	
CE2022	Design of Steel Structures	C	2.0	3/1	3.0				30	70	
CE2032	Hydraulic Engineering I	C	2.5	3/2	3.0				30	70	
CE2042	Soil Mechanics & Geology I	C	2.0	3/1	3.0				30	70	
CE2052	Construction Planning & Cost Estimating	C	2.0	3/1	3.0				30	70	
CE2062	Surveying I	C	2.0	3/1	3.0			22.0	0.0	30	70
MN1030	Entrepreneurship Skill Development (continuing from S2)	-	0.5	3/2		1.0				70	30
<b>Total for Semester 3</b>					22.0	1.0	<b>22.0</b>	<b>0.0</b>			
<b>Semester 4</b>											
MA2033	Linear Algebra	C	2.0	-	2.0				30	70	
MA3013	Applied Statistics	C	2.0	-	2.0				30	70	
CE2112	Structural Analysis I	C	2.5	3/2	3.0				30	70	
CE2122	Design of Concrete Structures I	C	2.0	3/1	3.0				40	60	
CE3012	Hydraulic Engineering II	C	2.5	3/2	3.0				30	70	
CE2132	Soil Mechanics & Geology II	C	2.0	3/1	3.0				30	70	
CE2142	Surveying II	C	2.0	3/1	3.0			19.0		30	70
DE2XXX	Humanities Electives II	E	-	-	2.0			2.0			
MN 2010	Entrepreneurial Leadership	O	1.5	3/2	2.0					50	50
<b>Total for Semester 4</b>					23.0	0.0	<b>21.0</b>	<b>0.0</b>			
Module	Module Name	Category	Lectures	Lab/	Credits		Norm		Evaluation		

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Code			hrs/week	Assignments hrs/weeks	GPA	NGPA	GPA	NGPA	CA%	WE%
<b>Semester 5</b>										
CE3112	Structural Analysis II	C	2.5	3/2	3.0				50	50
CE3122	Design of Masonry & Timber Structures	C	2.0	3/1	3.0				40	60
CE3132	Geotechnical Engineering	C	2.5	3/2	3.0				30	70
CE3142	Construction Management	C	2.5	3/2	3.0				30	70
CE3152	Fundamentals of Environmental Engineering	C	1.5	3/2	2.0				30	70
CE3162	Fundamentals of Transportation Engineering	C	1.5	3/2	2.0				40	60
MN3042	Business Economics & Financial Accounting	C	3.0	-	3.0		19.0	0.0	30	70
MN3010	Multidisciplinary Design, Innovation & Venture Creation	O	1.5	3/2	2.0				50	50
<b>Total for Semester 5</b>					21.0	0.0	<b>19.0</b>	<b>0.0</b>		
<b>Industrial Training &amp; Survey Camp</b>										
CE3992	Industrial Training	C	-	-		6.0			100	-
CE3912	Survey Camp	C	-	-		2.0	0.0	8.0	100	-
<b>Total for Industrial Training &amp; Survey Camp</b>					0.0	8.0	<b>0.0</b>	<b>8.0</b>		
<b>Semester 6</b>										
CE4012	Design of Concrete Structures II	C	2.0	3/1	3.0				30	70
CE4022	Hydraulic Design	C	2.5	3/2	3.0				30	70
CE4032	Geotechnical Design	C	2.5	3/2	3.0				30	70
CE4902	Communication Skills for Projects	C	1.0	3/1		2.0			100	-
CE4922	Research Project	C	-	3/1	1.0		10.0	2.0	100	-
<b>Total for Semester 6 (proposed)</b>					10	2.0	10	2		
<b>Semester 7</b>										
CE4042	Highway Engineering	C	2.5	3/2	3.0				30	70
CE4052	Environmental Engineering	C	2.5	3/2	3.0				40	60
CE4912	Comprehensive Design Project	C	-	3/1	2.0				100	-
CE4922	Research Project	C	-	6/1	2.0		10		100	-
CE4312	Building Engineering	E	2.0	3/1	3.0				40	60
CE4322	Irrigation Engineering	E	2.5	3/2	3.0				30	70
CE4332	Remote Sensing & GIS	E	2.5	3/2	3.0		6.0	0.0	50	50

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CE4342	Construction Technology	E	2.0	3/1	3.0				40	60
CE4352	Traffic Engineering & Planning	E	2.5	3/2	3.0				30	70
MN 3020	Entrepreneurship Business Basics	E	2.0	3/1	3.0				50	50
<b>Total for Semester 7</b>					35.0	2.0	<b>16.00</b>	<b>0.0</b>		

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits		Norm		Evaluation		
					GPA	NGPA	GPA	NGPA	CA%	WE%	
<b>Semester 8</b>											
CE4123	Engineering Economics	C	2.0	-	2.0				30	70	
CE4912	Comprehensive Design Project	C	-	6.0	3.0				100	-	
CE4922	Research Project	C	-	3.0	1.0				100	-	
CE4412	Management Skills Development	C	2.0	-	2.0			8.0	0.0	30	70
CE4422	Advanced Structural Engineering & Design	E	2.0	3/1	3.0				40	60	
CE4432	Design of Large Structures	E	2.5	3/2	3.0				40	60	
CE4442	Bridge Engineering	E	2.5	3/2	3.0				40	60	
CE4452	Coastal & Port Engineering	E	2.5	3/2	3.0				30	70	
CE4472	Environmental Geotechnics	E	2.0	3/1	3.0				30	70	
CE4482	Computational Geotechnical Engineering	E	2.0	3/1	3.0				50	50	
CE4492	Project Management	E	2.0	3/1	3.0				30	70	
CE4502	Management Information Systems	E	2.0	3/1	3.0				30	70	
CE4512	Computational Mechanics	E	2.0	3/1	3.0				40	60	
CE4522	Sustainable Design & Construction	E	2.0	3/1	3.0				40	60	
CE4532	Highway Construction & Maintenance Management	E	2.5	3/2	3.0				40	60	
CE4542	Analysis & Design of Transportation Systems	E	2.5	3/2	3.0				40	60	
CE4552	Water & Wastewater Treatment	E	2.5	3/2	3.0				40	60	
CE4562	Environmental Impact Assessment	E	2.0	3/1	3.0				40	60	
MN 4010	Business Plan Development	E	1.5	3/2	2.0			9.0	0.0	70	30
<b>Total for Semester 8</b>					52.0	0.0	17.0	0.0			
<b>Total for the Programme</b>							<b>137.0</b>	<b>13.0</b>			

The minor will consist of the following: This will give a total of 13 credits for the student to qualify for the minor. Six of these will come from optional subjects.

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MN 1030 – 2 (NGPA) - E  
 MN 2010 – 2 GPA - O  
 MN 3010 – 2 GPA - O  
 MN 3020 – 3 GPA - E  
 CE 4123 – 2 GPA - C  
 MN 4010 – 2 GPA - O

**Modules Offered to Other Fields of Specialization**

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/weeks	Credits		Evaluation	
					GPA	NGPA	CA%	EX%
<i>Semester 3</i>								
CE1812	Mechanics of Materials	O	2.0	-	2.0		30	70
CE1822	Aspects of Civil Engineering	O	2.0	-	2.0		30	70
<i>Semester 5</i>								
CE2812	Soil Mechanics	O	2.5	3/2	3.0		30	70

