CURRICULUM AND MODULES (EFFECTIVE FROM 2017 INTAKE) CURRICULUM

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

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/week	Cr	edits	Norm		Evaluation	
					GPA	NGPA	GPA	NGPA	CA%	WE%
Semester 1										
MA1013	Mathematics	С	3.0	1/1	3.0				20	80
CS1032	Programming Fundamentals	С	2.0	3/1	3.0				20	80
ME1032	Mechanics	С	2.0	3/4	2.0				20	80
MT1022	Properties of Materials	С	2.0	3/4	2.0				20	80
CE1022	Fluid Mechanics	С	2.0	3/4	2.0				20	80
EE1012	Electrical Engineering	С	2.0	3/4	2.0				20	80
EL1012	Language Skill Enhancement I	С	-	3/1	1.0				20	80
MN1012	Engineering in Context	С	1.0	0		1.0	15.0	1.0	30	70
		···		To	tal for Se	emester 1	15.0	1.0		
Semester 2	and the second s									
MA1023	Methods of Mathematics	С	3.0	1/1	3.0				30	70
CE1112	Structural Mechanics I	С	2.5	3/2	3.0				30	70
CE1122	Fluid Mechanics II	С	2.5	3/2	3.0				30	70
CE1132	Building Construction and Materials	С	2.0	3/1	3.0				30	70
ME1812	Basic Thermal Sciences	С	2.0	-	2.0				30	70
EL 1022	Language Skill Enhancement II	С	-	3/1	1.0		15.0	0.0	20	80
CS2850	Visual Programming and Applications	E	1.0	3/1		2.0			100	
CE2260	Building Design Process & Applications	Е	1.0	3/1		2.0	0.0	2.0	30	70
MN1030	Entrepreneurship Skill Development (continuing)	E	0.5	3/2		1.0			70	30
DE2XXX	Humanities Electives 1	Е			2.0		2.0	0.0		
				To	tal for S	emester 2	17.0	2.0		

Recommended by Senate Curriculum and Evaluation Committee held on 12th February, 2020.

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/week	Credits		Norm		Evaluation	
					GPA	NGPA	GPA	NGPA	CA%	WE%
Semester 3										
MA2013	Differential Equations	С	2.0	-	2.0				30	70
MA2023	Calculus	С	2.0	(#S)	2.0				30	70
CE2013	Structural Mechanics II	С	2.5	3/2	3.0				30	70
CE2022	Design of Steel Structures	С	2.0	3/1	3.0				30	70
CE2032	Hydraulic Engineering I	С	2.5	3/2	3.0				30	70
CE2042	Soil Mechanics & Geology I	С	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	С	2.0	3/1	3.0		22.0	0.0	30	70
MN1030	Entrepreneurship Skill Development (continuing from S2)*	О	0.5	3/2		1.0			70	30
				To	tal for Se	emester 3	22.0	0.0		
Semester 4										
MA2033	Linear Algebra	С	2:0	-	2.0				30	70
MA3013	Applied Statistics	C	2.0	-	2.0				30	70
CE2113	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		- 6		30	70
CE2132	Soil Mechanics & Geology II	С	2.0	3/1	3.0				30	70
CE2142	Surveying II	С	2.0	3/1	3.0		19.0	0.0	30	70
DE2XXX	Humanities Electives II	. E			2.0	i ja roženi	2.0	0.0		
MN 2010	Entrepreneurial Leadership*	0	1.5	3/2	2.0				50	50
	Total for Semester 4							0.0		

 $[\]boldsymbol{*}$ - only for students specializing in entrepreneurship minor

Module			Lectures	Lab/	Credits		Norm		Eval	uation
Code	Module Name	Category	hrs/week	Assignments hrs/week	GPA	NGPA	GPA	GPA	CA%	WE%
Semester 5	ser lise syl it had be					22				
CE3112	Structural Analysis II	С	2.5	3/2	3.0				50	50
CE3122	Design of Masonry & Timber Structures	С	2.0	3/1	3.0				40	60
CE3132	Geotechnical Engineering	С	2.5	3/2	3.0				30	70
CE3142	Construction Management	С	2.5	3/2	3.0				30	70
CE3152	Fundamentals of Environmental Engineering	С	1.5	3/2	2.0				30	70
CE3162	Fundamentals of Transportation Engineering	С	1.5	3/2	2.0				40	60
MN3042	Business Economics & Financial Accounting	С	3.0		3.0		19.0	0.0	30	70
MN3010	Multidisciplinary Design, Innovation & Venture Creation	0	1.5	3/2	2.0				50	50
	•	-	1	To	tal for Se	emester 5	19.0	0.0		
Industrial	Training & Survey Camp			HEATH TOWNER F	17-5407	(EMP)			-	
CE3992	Industrial Training	С	_	-		6.0		0	100	743
CE3913	Survey Camp	С				2.0	0.0	8.0	100	12
		11.	Total for In	dustrial Trainin	g & Sur	vev Camp	0.0	8.0		
Semester 6	在1860年1月1日 - 1973年 - 日本政府保持的		Mindella.					S OF LAND	THI	X
CE4012	Design of Concrete Structures II	С	2.0	3/1	3.0				30	70
CE4022	Hydraulic Design	С	2.5	3/2	3.0				30	70
CE4032	Geotechnical Design	С	2.5	3/2	3.0		1		30	70
CE4902	Communication Skills for Projects	С	1.0	3/1		2.0	1		100	-
CE4922	Research Project (Continuing)	С	-	3/1	1.0		10.0	2.0	100	-
	*			To	tal for S	emester 6	10.0	2.0		
Semester 7		FF 2 N MAIS	- 215, -		Mile - E	FIGUR V		THE T		9 115
CE4042	Highway Engineering	С	2.5	3/2	3.0				30	70
CE4052	Environmental Engineering	C	2.5	3/2	3.0		1		40	60
CE4912	Comprehensive Design Project (Continuing)	С	=	3/1	2.0		1		100	1/20
CE4922	Research Project (Continuing)	C	-	6/1	2.0			0.0	100	1/2/
MN4900	Professional Ethics	С	1.0			1.0	10.0	1.0		
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	Е	2.5	3/2	3.0		6.0		50	50
CE4342	Construction Technology	E	2.0	3/1	3.0				40	60
CE4352	Traffic Engineering & Planning	Е	2.5	3/2	3.0				30	70
MN3020	Entrepreneurship Business Basics	Е	2.0	3/1	3.0				50	50
CE4610	Sustainable design and whole lifecycle	Е	3.0	-	3.0				100	00
				To	tal for S	emester 7	16.0	1.0		

Recommended by Senate Curriculum and Evaluation Committee held on 12th February, 2020.

Module Code	Module Name	Category	Lectures hrs/week	Lab/ Assignments hrs/week	Credits		Ne	orm	Eval	uation
					GPA	NGPA	GPA	NGPA	CA%	WE%
Semester 8					THE PERSON		, - 2			
CE4112	Management Skill Development	С	2.0		2.0				30	70
CE4123	Engineering Economics	С	2.0	-	2.0				30	70
CE4912	Comprehensive Design Project	С		6.0	3.0				100	
CE4922	Research Project	С	(e 1	3.0	1.0		8.0	0.0	100	
CE4412	Bridge Engineering	Е	2.5	3/2	3.0				40	60
CE4422	Advanced Structural Engineering & Design	Е	2.0	3/1	3.0				40	60
CE4432	Design of Large Structures	Е	2.5	3/2	3.0				40	60
CE4442	Computational Mechanics	E	2.0	3/1	3.0				40	60
CE4452	Coastal & Port Engineering	Е	2.5	3/2	3.0				30	70
CE4472	Environmental Geotechnics	E	2.0	3/1	3.0				30	70
CE4482	Computational Geotechnical Engineering	Е	2.0	3/1	3.0				50	50
CE4492	Project Management	Е	2.0	3/1	3.0				30	70
CE4502	Management Information Systems	E	2.0	3/1	3.0				30	70
CE4522	Sustainable Design & Construction	Е	2.0	3/1	3.0				40	60
CE4532	Highway Construction & Maintenance Management	Е	2.5	3/2	3.0				40	60
CE4542	Analysis & Design of Transportation Systems	Е	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	Е	2.0	3/1	3.0				40	60
CE4620	Engineering Response to Climate Change	E	3.0	**	3.0				100	00
MN 4010	Business Plan Development	E	1.5	3/2	2.0		9.0	0.0	70	30
				To	tal for Se	emester 8	17.0	0.0		
	Total for the	Programme					137.0	14.0		

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.

- 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

Recommended by Senate Curriculum and Evaluation Committee held on 12th February, 2020.