

STRUCTURAL ENGINEERING MSC PROGRAM

	Code	Credit	Lecture	Seminar	Laboratory	Consultation	Day	M/E/S	Semester
Core Subjects									
Advanced Mathematics	BMETE90MX33	3	2	1				E	1
Physics Laboratory	BMETE11MX22	1			1			M	2
Methods of Engineering Analysis	BMEEOHSMK51	3	1	1				M	1
Numerical Methods	BMEEOFTMK51	4			3			M	1
Geodynamics	BMEEOGMMS51	3	2					M	2
FEM for Civil Engineers	BMEEOTMMS51	5	2	2				E	1
Soil-Structure Interaction	BMEEOGMMS52	5	3	1				M	1
Structures 1	BMEEOHSM51	5	3	1				E	1
Decision Supporting Methods	BMEEPEKMST4	2	2					M	3
Accounting, Controlling, Taxation	BMEGT35M014	2	2					M	3
Corporate Finance	BMEGT35M411	2	2					M	3
Engineering Ethics	BMEGT41M004	2	2					M	3
Optional Subjects		5							
Specialization in Numerical Modeling									
Obligatory Subjects									
Numerical modeling project	BMEEOTMMS5P	5				2		M	2
Structural Dynamics	BMEEOTMMN-1	4	2	1				M	2
Stability of Structures	BMEEOHSM-2	4	2	1				E	2
Nonlinear Mechanics	BMEEOTMMN-2	4	2	1				E	1
Elective Subjects		11							
Diploma Project	BMEEODHMN-D	20						M	3
Recommended Elective Subjects									
Plasticity	BMEEOTMMN61	3	1	1				M	2
Nonlinear FEM	BMEEOTMMN62	3	2					M	2
Analysis of Rods and Frames	BMEEOTMMN63	3	1	1				M	2
Discrete Element Method	BMEEOTMMN64	3	1	1				M	2
Specialization in Structures									
Obligatory Subjects									
Structures project	BMEEOHSM5P	5				2		M	2
Structures 2	BMEEOHSM-1	4	2	1				E	2
Stability of Structures	BMEEOHSM-2	4	2	1				E	2
Seismic Design	BMEEOHSM-3	4	2	1				M	2
Structural Dynamics	BMEEOTMMN-1	4	2	1				M	2
Elective Subjects		7							
Diploma Project	BMEEODHMT-D	20						M	3
Recommended Elective Subjects									
Applied Fracture Mechanics	BMEEOHSM61	4	2	1				M	2
Prestressing Technologies	BMEEOHSM62	3	1	1				M	2
Strengthening of Structures	BMEEOHSM63	3	1	1				M	2
Specialization in Geotechnics and Geology									
Obligatory Subjects									
Geotechnics and engineering geology project	BMEEOGMMS5P	5				2		F	2
Engineering Geology MSc	BMEEOGMMG-1	4	2	1				V	2
Environmental Geology	BMEEOGMMG-2	4	2	1				F	1
Geotechnical Design	BMEEOGMMG-3	4	2	1				F	2
Earthworks of Infrastructures	BMEEOGMMG-4	4	2	1				F	2
Elective Subjects		7							
Diploma Project	BMEEODHMG-D	20						F	3
Recommended Elective Subjects									
Tunneling	BMEEOGMMG61	3	2					F	2
Hydrogeology	BMEEOGMMG62	3	2					F	2
Numerical Methods of Geotechnics	BMEEOGMMG63	3	1		1			F	1
Engineering Geology of Hungary	BMEEOGMMG64	3	2					F	2

Specialization in Structures in Nuclear Power Plants (special admission required)

	Code	Credit	Lecture	Seminar	Laboratory	Consultation	M/E	Semester
Core Subjects								
Advanced Mathematics	BMETE90MX33	3	2	1			E	1
Physics Laboratory	BMETE11MX22	1			1		M	2
Methods of Engineering Analysis	BMEEOHSMK51	3	1	1			M	1
Numerical Methods	BMEEOFTMK51	4			3		M	1
Nuclear and Reactor Physics Fundamentals	BMETE	5	3	1			E	1
Thermal Hydraulics of Nuclear Power Plants	BMETE	5	3	1			E	2
Soil-Structure Interaction	BMEEOGMMS52	5	3	1			M	1
Structures 1	BMEEOHSM551	5	3	1			E	1
Decision Supporting Methods	BMEEPEKMST4	2	2				M	3
Accounting, Controlling, Taxation	BMEGT35M014	2	2				M	3
Corporate Finance	BMEGT35M411	2	2				M	3
Engineering Ethics	BMEGT41M004	2	2				M	3
Optional Subjects		5						1
Specialization in Structures in Nuclear Power Plants								
Obligatory Subjects								
Nuclear Power Plants	BMETE	5	3	1			M	2
Extreme Actions on Structures	BMEEOHSMMA-1	3	2				E	2
Seismic Design	BMEEOHSMST-3	4	2	1			M	2
Containment Building	BMEEOHSMMA-2	3	2				M	2
Elective Subjects		11						
Diploma Project	BMEEODHMT-D	20					M	3
Recommended Elective Subjects								
Structures in Nuclear Power Plants project	BMEEOHSMMA6P	5				2	M	2
Stability of Structures	BMEEOHSMST-2	4	2	1			E	2
Structural Dynamics	BMEEOTMMN-1	4	2	1			M	2
Structures 2	BMEEOHSMST-1	4	2	1			E	2
Applied Fracture Mechanics	BMEEOHSMST61	4	2	1			M	2
Prestressing Technologies	BMEEOHSMST62	3	1	1			M	2
Strengthening of Structures	BMEEOHSMST63	3	1	1			M	2
Plasticity	BMEEOTMMN61	3	1	1			M	2
Nonlinear FEM	BMEEOTMMN62	3	2				M	2
Analysis of Rods and Frames	BMEEOTMMN63	3	1	1			M	2
Discrete Element Method	BMEEOTMMN64	3	1	1			M	2