ULUDAG UNIVERSITY GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES 2015-2016 ACADEMIC YEAR COURSE PLAN

DEPARTMENT OF Civil Engineering

DEPARTMENT / PROGRAM Civil Engineering / Master's Degree Program

		I. TERM / FALL	II. TERM / SPRING													
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	Т	U	L	Credit	ECTS
	INS5191	MSc THESIS SUPERVISION I	R	0		0	0	1	INS5172	SEMINAR (CLASS)	R	0	2	0	0	6
	INS5015	ADVANCED ENGINEERING MECHANICS*	R	3		0	3	6	INS5192	MSc THESIS SUPERVISION II	R	0	1	0	0	1
	INS5181	MSc SPECIALIZED FIELD COURSE I	E	4	0	0	0	5	INS5182	MSc SPECIALIZED FIELD COURSE II	Е	4	0	0	0	5
	INS5011	ELASTICITY THEORY	Е	3	0	0	3	6	INS5014	COMPUTER AIDED FINITE ELEMENT ANALYSIS	Е	3	0	0	3	6
	INS5031	STRUCTURAL DYNAMICS	Е	3	0	0	3	6	INS5016	MECHANICS OF COMPOSITE MATERIALS	Е	3	0	0	3	6
	INS5033	ADVANCED REINFORCED CONCRETE	E	3	0	0	3	6	INS5018	ADVANCED MATRIX METHODS IN EARTHQUAKE ENGINEERING	E	3	0	0	3	6
	INS5035	MASONRY STRUCTURES	Е	3	0	0	3	6	INS5032	STRUCTURAL EARTHQUAKE ENGINEERING	Е	3	0	0	3	6
SIAGE	INS5037	PERFORMANCED BASED DESIGN	E	3	0	0	3	6	INS5034	NON-LINEAR ANALYSIS OF REINFORCED CONCRETE STRUCTURES	E	3	0	0	3	6
	INS5051	GROUNDWATER HYDRAULICS	E	3	0	0	3	6	INS5038	REINFORCED CONCRETE BRIDGE DESIGN	E	3	0	0	3	6
COURSE	INS5053	OPEN CHANNEL HYDRAULICS	E	3	0	0	3	6	INS5056	ADVANCED COMPUTER APPLICATIONS IN HYDRAULICS	Е	3	0	0	3	6
	INS5061	COASTAL HYDRODYNAMICS	E	3	0	0	3	6	INS5058	ADVANCED GIS APPLICATIONS IN HYDROLOGY	Е	3	0	0	3	6
	INS5063	WATER BASED ENERGY GENERATION	Е	3	0	0	3	6	INS5064	DESIGN OF PORTS AND COASTAL STRUCTURES	Е	3	0	0	3	6
	INS5071	SOIL-STRUCTURE INTERACTION	E	3	0	0	3	6	INS5072	ADVANCED FOUNDATION ENGINEERING	E	3	0	0	3	6
	INS5077	GEOTECHNICAL EARTHQUAKE ENGINEERING	E	3	0	0	3	6	INS5086	PAVEMENT DESING AND ANALYSIS	Е	3	0	0	3	6
	INS5081	NON-MOTORIZED TRANSPORTATION PLANNING AND OPERATION	Е	3	0	0	3	6								
	INS5087	URBAN TRANSPORTATION SYSTEMS AND PLANNING	Е	3	0	0	3	6								
_			Tot	al C	rec	dits	12	30			Tot	tal (Crec	lits	9	30

		III. TERM / FALL		IV. TERM / SPRING									
H 2	INS5173	SEMINAR (THESIS)	R 0 2 0	0	5	INS5184	MSc SPECIALIZED FIELD COURSE IV	R 4 0 0	0	5			
AG	INS5183	MSc SPECIALIZED FIELD COURSE III	R 4 0 0	0	5	INS5194	MSc THESIS SUPERVISION IV	R 0 1 0	0	25			
ST	INS5193	MSc THESIS SUPERVISION III	R 0 1 0	0	20								
			Total Credits	0	30			Total Credits	0	30			
	TOTAL CREDITS: 21 - TOTAL ECTS: 120												

Not: The student is expected to take a total of credited selective courses every academic term.

The student have the option of choosing one selective course from another department with the endorsement of the supervisor.

Required course for MSc students

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ULUDAG UNIVERSITY GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES 2015-2016 ACADEMIC YEAR COURSE PLAN

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	EPARTMEN																
DI	EPARTMEN	T / PROGRAM Civil Engineering / Doctoral	Program	1													
		I. TERM / FALL		II. TERM / SPRING													
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS	
	FEN6001	RESEARCH METHODS	R	2	0	0	2	4	INS6172	SEMINAR (CLASS)	R	0	2	0	0	4	
	INS6011	SOLID MECHANIC WITH FINITE ELEMENT APPLICATIONS	R	3	0	0	3	5	INS6192	DISSERTATION SUPERVISION II	R	0	1	0	0	1	
	INS6191	DISSERTATION SUPERVISION I	R	0	1	0	0	1									
H	INS6031	SIMPLIFIED METHODS IN SOIL STRUCTURE INTERACTION	Е	3	0	0	3	5	INS6016	ENERGY AND VARIATIONAL METHODS IN MECHANICS	Е	3	0	0	3	5	
TAG	INS6033	EARTHQUAKE RESISTANT STRUCTURAL DESIGN	Е	3	0	0	3	5	INS6032	LIQUID TANKS DESIGN	Е	3	0	0	3	5	
COURSE STAGE	INS6035	SEISMIC BEHAVIOUR OF HISTORICAL BUILDINGS	Е	3	0	0	3	5	INS6034	REPAIRING AND STRENGTHENING OF STRUCTURES	Е	3	0	0	3	5	
10	INS6037	FLUID STRUCTURE INTERACTION	Е	3	0	0	3	5	INS6036	PREFABRICATED STRUCTURES	Е	3	0	0	3	5	
	INS6051	ADVANCED GROUNDWATER HYDROLOGY	Е	3	0	0	3	5	INS6038	MACHINE FOUNDATIONS	Е	3	0	0	3	5	
	INS6053	COMPUTATIONAL FLUID DYNAMICS	Е	3	0	0	3	5	INS6052	ADVANCED FLUID MECHANICS	Е	3	0	0	3	5	
	INS6061	WIND/WAVE CLIMATE AND STATISTICS	Е	3	0	0	3	5	INS6062	STATISTICAL METHODS IN HYDROLOGY	Е	3	0	0	3	5	
	INS6077	SOIL DYNMICS AND FOUNDATION DESIGN	Е	3	0	0	3	5	INS6088	PUBLIC TRANSPORTATION	Е	3	0	0	3	5	
	INS6181	PHD SPECIALIZED FIELD COURSE I	Е	4	0	0	0	5	INS6182	PHD SPECIALIZED FIELD COURSE II	Е	4	0	0	0	5	
			Top	plam	ı Kr	edi	14	30	Toplam Kredi 12 30								
		III. TERM / FALL							IV. TERM / SPRING								
	YET6177	PHD PROFICIENCY EXAMINATION	R	0	0	0	0	10	INS6174 SEMINAR (THESIS) Z 0 2 0 0								
	INS6183	PHD SPECIALIZED FIELD COURSE III	R	4	0	0	0	5	INS6184	PHD SPECIALIZED FIELD COURSE IV	Z	4	0	0	0	5	
	INS6193	DISSERTATION SUPERVISION III	R	0	1	0	0	15	INS6194	DISSERTATION SUPERVISION IV	Z	0	1	0	0	20	
S			Top	plam	ı Kr	edi	0	30			To	plan	ı Kı	redi	0	30	
ESI		V. TERM / FALL								VI. TERM / SPRING							
THESIS	ENS6121	DEVELOPMENT AND LEARNING	R	3	0	0	0	5	ENS6122	PLANNING AND EVALUATION IN EDUCATION	R	3	2	0	0	5	
Ħ	INS6185	PHD SPECIALIZED FIELD COURSE V	R	4	0	0	0	5	INS6186	PHD SPECIALIZED FIELD COURSE VI	R	4	0	0	0	5	
STAGE	INS6195	DISSERTATION SUPERVISION V	R	0	0	0	0	20	INS6196	DISSERTATION SUPERVISION VI	R	0	1	0	0	20	
\mathbf{S}			Top	plam	ı Kr	edi	0	30			To	plan	ı Kı	redi	0	30	
		VII. TERM / FALL	-							VIII. TERM / SPRING							
	INS6187	PHD SPECIALIZED FIELD COURSE VII	R	4	0	0	0	5	INS6188	PHD SPECIALIZED FIELD COURSE VIII	R	4	0	0	0	5	
	INS6197	DISSERTATION SUPERVISION VII	R	0	1	0	0	25	INS6198	DISSERTATION SUPERVISION VIII	R	0	1	0	0	25	
			Top	plam	Kr	edi	0	30			To	plan	ı Kı	redi	0	30	
					TC	TA	L CRED	ITS: 26	- TOT	AL ECTS: 240							



ULUDAG UNIVERSITY GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES 2015-2016 ACADEMIC YEAR COURSE PLAN

DEPARTMENT OF Civil Engineering

DEPARTMENT / PROGRAM Civil Engineering /The Non-thesis Master's Degree Program

I. TERM / FALL										II. TERM / SPRING							
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS	
	INS5215	ADVANCED ENGINEERING MECHANICS	R	3	0	0	3	7,5									
	INS5211	ELASTICITY THEORY	Е	3	0	0	3	7,5	INS5214	COMPUTER AIDED FINITE ELEMENT ANALYSIS	Е	3	0	0	3	7,5	
	INS5231	STRUCTURAL DYNAMICS	Е	3	0	0	3	7,5	INS5216	MECHANICS OF COMPOSITE MATERIALS	Е	3	0	0	3	7,5	
	INS5233	ADVANCED REINFORCED CONCRETE	Е	3	0	0	3	7,5	INS5218	ENERGY AND VARIATIONAL METHODS IN MECHANICS	Е	3	0	0	3	7,5	
	INS5239	PERFORMANCE BASED DESIGN	Е	3	0	0	3	7,5	INS5220	LIQUID TANKS DESIGN	Е	3	0	0	3	7,5	
	INS5251	GROUNDWATER HYDRAULICS	Е	3	0	0	3	7,5	INS5230	NON-LINEAR ANALYSIS OF REINFORCED CONCRETE STRUCTURES	Е	3	0	0	3	7,5	
田田	INS5253	OPEN CHANNEL HYDRAULICS	Е	3	0	0	3	7,5	INS5232	STRUCTURAL EARTHQUAKE ENGINEERING	Е	3	0	0	3	7,5	
STAGE	INS5261	COASTAL HYDRODYNAMICS	Е	3	0	0	3	7,5	INS5234	REPAIRING AND STRENGTHENING OF STRUCTURES	Е	3	0	0	3	7,5	
RSE	INS5271	SOIL-STRUCTURE INTERACTION	Е	3	0	0	3	7,5	INS5236	PREFABRICATED STRUCTURES	Е	3	0	0	3	7,5	
COURSE	INS5281	NON-MOTORIZED TRANSPORTATION PLANNING AND OPERATION	Е	3	0	0	3	7,5	INS5238	MACHINE FOUNDATIONS	Е	3	0	0	3	7,5	
	INS5287	URBAN TRANSPORTATION SYSTEMS AND PLANNING	Е	3	0	0	3	7,5	INS5240	REINFORCED CONCRETE BRIDGE DESIGN	Е	3	0	0	3	7,5	
									INS5256	ADVANCED COMPUTER APPLICATIONS IN HYDRAULICS	Е	3	0	0	3	7,5	
									INS5258	ADVANCED GIS APPLICATIONS IN HYDROLOGY	Е	3	0	0	3	7,5	
									INS5262	STATISTICAL METHODS IN HYDROLOGY	Е	3	0	0	3	7,5	
									INS5264	DESIGN OF PORTS AND COASTAL STRUCTURES	Е	3	0	0	3	7,5	
									INS5272	ADVANCED FOUNDATION ENGINEERING	Е	3	0	0	3	7,5	
									INS5286	PAVEMENT DESING AND ANALYSIS	Е	3	0	0	3	7,5	

				ļ					INS5288	PUBLIC TRANSPORTATION	Е	3	0 0	3	7,5	
			Tot	al C	Cred	its	12	30			Tot	al C	redits	12	30	
		III. TERM / FALL								IV. TERM / SPRIN	\G					
	INS5201	PROJECT MANAGEMENT	Z	0	2	0	0	7,5								
	INS5203	SIMPLIFIED METHODS IN SOIL STRUCTURE INTERACTION	Е	3	0	0	3	7,5								
	INS5205	EARTHQUAKE RESISTANT STRUCTURAL DESIGN	Е	3	0	0	3	7,5								
	INS5207	SEISMIC BEHAVIOUR OF HISTORICAL BUILDINGS	Е	3	0	0	3	7,5								
ഥ	INS5213	SOLID MECHANIC WITH FINITE ELEMENT APPLICATIONS	Е	3	0	0	3	7,5								
STAGE	INS5217	ADVANCED MATRIX METHODS IN EARTHQUAKE ENGINEERING	Е	3	0	0	3	7,5								
	INS5219	TRAFFIC FLOW THEORY	Е	3	0	0	3	7,5								
IRS	INS5235	MASONRY STRUCTURES	Е	3	0	0	3	7,5								
COURSE	INS5237	FLUID STRUCTURE INTERACTION	Е	3	0	0	3	7,5								
	INS5263	WATER BASED ENERGY GENERATION	Е	3	0	0	3	7,5								
	INS5277	GEOTECHNICAL EARTHQUAKE ENGINEERING	Е	3	0	0	3	7,5								
	INS5279	SOIL DYNMICS AND FOUNDATION DESIGN	Е	3	0	0	3	7,5								
	INS5283	TRANSPORTATION SYSTEM ANALYSIS	Е	3	0	0	3	7,5					İ			
													<u> </u>			
			İ										İ			
	Total Credits 9 30									Total Credits						
			T	OT.	AL (CRI	EDITS	: 33	- TOTAI	L ECTS: 90						

Not: The student is expected to take a total of credited selective courses every academic term. The student have the option of choosing one elective course from another department with the endorsement of the supervisor.