



ULUDAG UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
2017-2018 ACADEMIC YEAR COURSE PLAN

DEPARTMENT OF	Civil Engineering
DEPARTMENT / PROGRAM	Civil Engineering / Master's Degree Program

COURSE STAGE	I. TERM / FALL								II. TERM / SPRING							
	Code	Course Title	Type	T	U	L	Credit	ECTS	Code	Course Title	Type	T	U	L	Credit	ECTS
	INS5191	MSc THESIS SUPERVISION I	R	0	1	0	0	1	INS5172	SEMINAR	R	0	2	0	0	4
	INS5043	STRUCTURAL DESIGN *	R	3	0	0	3	6	INS5192	MSc THESIS SUPERVISION II	R	0	1	0	0	1
									INS5000	RESEARCH TECHNIQUES and PUBLICATION ETHICS in CIVIL ENGINEERING	C	2	0	0	2	2
	INS5181	MSc SPECIALIZED FIELD COURSE I	E	4	0	0	0	5	INS5182	MSc SPECIALIZED FIELD COURSE II	E	4	0	0	0	5
	INS5011	ELASTICITY THEORY	E	3	0	0	3	6	INS5014	COMPUTER AIDED FINITE ELEMENT ANALYSIS	E	3	0	0	3	6
	INS5015	ADVANCED ENGINEERING MECHANICS	E	3	0	0	3	6	INS5016	MECHANICS OF COMPOSITE MATERIALS	E	3	0	0	3	6
	INS5023	STABILITY OF STRUCTURES	E	3	0	0	3	6	INS5018	ADVANCED MATRIX METHODS IN EARTHQUAKE ENGINEERING	E	3	0	0	3	6
	INS5031	STRUCTURAL DYNAMICS	E	3	0	0	3	6	INS5024	THEORY OF PLATES	E	3	0	0	3	6
	INS5033	ADVANCED REINFORCED CONCRETE	E	3	0	0	3	6	INS5032	STRUCTURAL EARTHQUAKE ENGINEERING	E	3	0	0	3	6
	INS5035	MASONRY STRUCTURES	E	3	0	0	3	6	INS5034	NON-LINEAR ANALYSIS OF REINFORCED CONCRETE STRUCTURES	E	3	0	0	3	6
	INS5037	PERFORMANCED BASED DESIGN	E	3	0	0	3	6	INS5038	REINFORCED CONCRETE BRIDGE DESIGN	E	3	0	0	3	6
	INS5041	CHEMICAL ADMIXTURE	E	3	0	0	3	6	INS5042	SPECIAL CONCRETE	E	3	0	0	3	6
	INS5043	ADVANCED STEEL DESIGN I	E	3	0	0	3	6	INS5044	INDUSTRIAL STEEL STRUCTURES	E	3	0	0	3	6
	INS5045	SEISMIC ISOLATED BUILDING DESIGN	E	3	0	0	3	6	INS5056	ADVANCED COMPUTER APPLICATIONS IN HYDRAULICS	E	3	0	0	3	6
	INS5051	GROUNDWATER HYDRAULICS	E	3	0	0	3	6	INS5058	ADVANCED GIS APPLICATIONS IN HYDROLOGY	E	3	0	0	3	6
	INS5053	OPEN CHANNEL HYDRAULICS	E	3	0	0	3	6	INS5064	DESIGN OF PORTS AND COASTAL STRUCTURES	E	3	0	0	3	6
	INS5061	COASTAL HYDRODYNAMICS	E	3	0	0	3	6	INS5072	ADVANCED FOUNDATION ENGINEERING	E	3	0	0	3	6
	INS5063	WATER BASED ENERGY GENERATION	E	3	0	0	3	6	INS5076	IN-SITU TESTS AND GEOTECHNICAL DESIGN	E	3	0	0	3	6

	INS5071	SOIL-STRUCTURE INTERACTION	E	3	0	0	3	6	INS5086	PAVEMENT DESIGN AND ANALYSIS	E	3	0	0	3	6		
	INS5075	DEEP EXCAVATIONS AND RETAINING STRUCTURES	E	3	0	0	3	6										
	INS5077	GEOTECHNICAL EARTHQUAKE ENGINEERING	E	3	0	0	3	6										
	INS5081	NON-MOTORIZED TRANSPORTATION PLANNING AND OPERATION	E	3	0	0	3	6										
	INS5087	URBAN TRANSPORTATION SYSTEMS AND PLANNING	E	3	0	0	3	6										
	Total Credits							12	30	Total Credits							11	30
STAGE	III. TERM / FALL								IV. TERM / SPRING									
									INS5184	MSc SPECIALIZED FIELD COURSE IV	R	4	0	0	0	5		
	INS5183	MSc SPECIALIZED FIELD COURSE III	R	4	0	0	0	5	INS5194	MSc THESIS SUPERVISION IV	R	0	1	0	0	25		
	INS5193	MSc THESIS SUPERVISION III	R	0	1	0	0	25										
	Total Credits							0	30	Total Credits							0	30
TOTAL CREDITS: 23 - 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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DEPARTMENT OF Civil Engineering
DEPARTMENT / PROGRAM Civil Engineering / Doctoral 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
COURSE STAGE	INS6011	SOLID MECHANIC WITH FINITE ELEMENT APPLICATIONS	R	3	0	0	3	5	INS6172	SEMINAR	R	0	2	0	0	4
	INS6191	DISSERTATION SUPERVISION I	R	0	1	0	0	1	INS6192	DISSERTATION SUPERVISION II	R	0	1	0	0	1
	INS6181	PHD SPECIALIZED FIELD COURSE I	E	4	0	0	0	5	FEN6000	RESEARCH TECHNIQUES and PUBLICATION ETHICS	C	2	0	0	2	2
	INS6031	SIMPLIFIED METHODS IN SOIL STRUCTURE INTERACTION	E	3	0	0	3	6	INS6182	PHD SPECIALIZED FIELD COURSE II	E	4	0	0	0	5
	INS6033	EARTHQUAKE RESISTANT STRUCTURAL DESIGN	E	3	0	0	3	6	INS6016	ENERGY AND VARIATIONAL METHODS IN MECHANICS	E	3	0	0	3	6
	INS6035	SEISMIC BEHAVIOUR OF HISTORICAL BUILDINGS	E	3	0	0	3	6	INS6022	INITIAL AND BOUNDARY VALUE PROBLEMS	E	3	0	0	3	6
	INS6037	FLUID STRUCTURE INTERACTION	E	3	0	0	3	6	INS6032	LIQUID TANKS DESIGN	E	3	0	0	3	6
	INS6039	DESIGN OF DUCTILE STEEL STRUCTURES	E	3	0	0	3	6	INS6034	REPAIRING AND STRENGTHENING OF STRUCTURES	E	3	0	0	3	6
	INS6051	ADVANCED GROUNDWATER HYDROLOGY	E	3	0	0	3	6	INS6036	PREFABRICATED STRUCTURES	E	3	0	0	3	6
	INS6053	COMPUTATIONAL FLUID DYNAMICS	E	3	0	0	3	6	INS6038	MACHINE FOUNDATIONS	E	3	0	0	3	6
	INS6061	WIND/WAVE CLIMATE AND STATISTICS	E	3	0	0	3	6	INS6042	DIMENSIONAL STABILITY OF CONCRETE	E	3	0	0	3	6
	INS6077	SOIL DYNAMICS AND FOUNDATION DESIGN	E	3	0	0	3	6	INS6052	ADVANCED FLUID MECHANICS	E	3	0	0	3	6
	INS6087	TRAFFIC FLOW THEORY	E	3	0	0	3	6	INS6062	STATISTICAL METHODS IN HYDROLOGY	E	3	0	0	3	6
									INS6074	ADVANCED SOIL MECHANICS	E	3	0	0	3	6
								INS6088	PUBLIC TRANSPORTATION	E	3	0	0	3	6	
	Toplam Kredi						12	30	Toplam Kredi						11	30
STAGE THESIS	III. TERM / FALL							IV. TERM / SPRING								
	YET6177	PHD PROFICIENCY EXAMINATION	R	0	0	0	0	10								
	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	25

Toplam Kredi							0	30	Toplam Kredi							0	30
V. TERM / FALL								VI. TERM / SPRING									
INS6185	PHD SPECIALIZED FIELD COURSE V	R	4	0	0	0	5	INS6186	PHD SPECIALIZED FIELD COURSE VI	R	4	0	0	0	5		
INS6195	DISSERTATION SUPERVISION V	R	0	0	0	0	25	INS6196	DISSERTATION SUPERVISION VI	R	0	1	0	0	25		
Toplam Kredi							0	30	Toplam Kredi							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		
Toplam Kredi							0	30	Toplam Kredi							0	30
TOTAL CREDITS: 23 - TOTAL ECTS: 240																	

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.

*Success in Ph.D. qualifying exam is a prerequisite to start DISSERTATION.