

# **AFYON KOCATEPE UNIVERSITY**



## GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES

## DEPARTMENT OF CIVIL ENGINEERING

# DOCTOR OF PHILOSOPHY (PhD) PROGRAM

#### **FIRST YEAR**

	FIRST SEMESTER										
COURSE	COURSE NAME	C/E	(	COUR	SE CR	EDIT	*				
CODE	COOKSETTINE	CIE	TH	AP	то	CR	EC				
INS-6501	DIRECTED FIELD STUDIES	С	8	0	8	0	9				
INS-6601	THESIS PREPARATION	C	0	1	1	0	1				
	ELECTIVE COURSE	Е	3	0	3	3	5				
	ELECTIVE COURSE	E	3	0	3	3	5				
	ELECTIVE COURSE	E	3	0	3	3	5				
	ELECTIVE COURSE	Е	3	0	3	3	5				
TOI	TOPLAM					12	30				

	SECOND SEMESTER											
COURSE	COURSE NAME	C/E	COURSE CREDIT*									
CODE	COURSE NAME	C/E	TH	AP	то	CR	EC					
INS-6502	DIRECTED FIELD STUDIES	С	8	0	8	0	9					
INS-6602	THESIS PREPARATION	С	0	1	1	0	1					
	ELECTIVE COURSE	Е	3	0	3	3	5					
	ELECTIVE COURSE	Е	3	0	3	3	5					
	ELECTIVE COURSE	Е	3	0	3	3	5					
	ELECTIVE COURSE	Е	3	0	3	3	5					
TO	TOTAL					12	30					



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#### **SECOND YEAR**

	THIRD SEMESTER							
COURSE	COURSE NAME	C/E	COURSE CREDIT					
CODE	COURSE NAME	CIE	TH	AP	то	CR	EC	
INS-6503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
INS-6603	THESIS PREPARATION	C	0	1	1	0	1	
INS-6701	SEMINAR	С	0	2	2	0	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
	ELECTIVE COURSE	E	3	0	3	3	5	
TOTA	L		17	3	20	9	30	

	FOURTH SEMESTER											
COURSE	COURSE NAME	COURSE NAME C/E	(	COUR	RSE CREDIT*							
CODE	COURSE NAME	C/E	TH	AP	то	CR	EC					
INS-6504	DIRECTED FIELD STUDIES	С	8	0	8	0	9					
INS-6604	THESIS	С	0	1	1	0	21					
TOTA	TOTAL					0	30					



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#### **THIRD YEAR**

	FIFTH SEMESTER										
COURSE	COURSE NAME	C/E	(	COUR	SE CR	EDIT	*				
CODE	COURSE NAME	C/E	TH	AP	TO	CR	EC				
INS-6505	DIRECTED FIELD STUDIES	C	8	0	8	0	9				
INS-6605	THESIS	C	0	1	1	0	21				
TOTA	TOTAL			1	9	0	30				

	SIXTH SEMESTER										
COURSE	COURSE NAME	C/E	COURSE CREDIT*								
CODE	COOKSENAME	C/E	TH	AP	ТО	CR	EC				
INS-6506	DIRECTED FIELD STUDIES	С	8	0	8	0	9				
INS-6606	THESIS	C	0	1	1	0	21				
TOTA	TOTAL				9	0	30				

## **FOURTH YEAR**

	SEVENTH SEMESTER										
COURSE	COURSE NAME	C/E	COURSE CREDIT*								
CODE	COURSE NAME	C/E	TH	AP	то	CR	EC				
INS-6507	DIRECTED FIELD STUDIES	С	8	0	8	0	9				
INS-6607	THESIS	C	0	1	1	0	21				
TOTA	TOTAL				9	0	30				

	EIGHTH SEMESTER										
COURSE	COURSE NAME	C/E	(	COUR	SE CR	EDIT	*				
CODE	COURSE NAME	CIL	TH	AP	то	CR	EC				
INS-6508	DIRECTED FIELD STUDIES	С	8	0	8	0	9				
INS-6608	THESIS	C	0	1	1	0	21				
TOTA	TOTAL				9	0	30				







## DEPARTMENT OF CIVIL ENGINEERING

#### **GRADUATE PROGRAMS**

COURSE	COURSE NAME	C/E	(	COUR	SE CR	EDIT	*
CODE	COURSE NAME	C/E	TH	AP	то	CR	EC
FBE-5001	SCIENTIFIC RESEARCH AND METHODS	Е	3	0	3	3	5
INS-5002	ADVANCED CONCRETE TECHNOLOGY	Е	3	0	3	3	5
INS-5003	COMPOSITE MATERIALS IN CONSTRUCTION	Е	3	0	3	3	5
INS-5004	DURABILITY OF REINFORCED CONCTRETE STRUCTURES	Е	3	0	3	3	5
INS-5005	METALLIC BUILDING MATERIALS	Е	3	0	3	3	5
INS-5006	EARTHQUAKE ENGINEERING	Е	3	0	3	3	5
INS-5007	PRESTRESSED CONCRETE STRUCTURES	Е	3	0	3	3	5
INS-5008	TERMS OF SEISMIC EVALUATION OF EXISTING STRUCTURES	Е	3	0	3	3	5
INS-5009	HUMAN FACTOR IN PRODUCTION	Е	3	0	3	3	5
INS-5010	BITUMINOUS MIXTURES	Е	3	0	3	3	5
INS-5011	LOW VOLUME ROADS	Е	3	0	3	3	5
INS-5012	PAVEMENT MANAGEMENT	Е	3	0	3	3	5
INS-5013	ROAD ENGINEERING AND APPLICATIONS OF GEOTECHNICAL	Е	3	0	3	3	5
INS-5014	USE OF INDUSTRIAL WASTE CONCRETE	Е	3	0	3	3	5
INS-5015	BINDING MATERIALS	Е	3	0	3	3	5
INS-5016	BUILDINGS ENERGY CONSERVATION	Е	3	0	3	3	5
INS-5017	INTERNAL STRUCTURE AND PROPERTIES OF BUILDING MATERIALS	Е	3	0	3	3	5
INS-5018	ECOLOGICAL MATERIALS	Е	3	0	3	3	5
INS-5019	ADVANCED BUILDING PHYSICS	Е	3	0	3	3	5
INS-5020	ADVANCED FLUID MECHANICS	Е	3	0	3	3	5
INS-5021	FLOOD CONTROL	Е	3	0	3	3	5
INS-5022	ENGINEERING PROPERTIES OF SOILS	Е	3	0	3	3	5
INS-5023	EXPERIMENTAL SOIL MECHANICS	Е	3	0	3	3	5
INS-5024	SOIL IMPROVEMENT	Е	3	0	3	3	5
INS-5025	FOUNDATION ENGINEERING	Е	3	0	3	3	5
INS-5026	THEORY OF ELASTICITY	Е	3	0	3	3	5
INS-5027	DATA ANALYSIS	Е	3	0	3	3	5
INS-5028	SYSTEM ANALYSIS	Е	3	0	3	3	5
INS-5029	CONCRETE ROADS AND DESIGN PRINCIPLES	Е	3	0	3	3	5
INS-5030	TRAFFIC ENGINEERING AND APPLICATIONS	Е	3	0	3	3	5
INS-5031	TRANSPORTATION PLANNING	Е	3	0	3	3	5







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#### **GRADUATE PROGRAMS**

COURSE	COURSE NAME	C/E	(	COUR	SE CR	EDIT	*
CODE	COURSE NAME	C/E	TH	AP	то	CR	EC
INS-5032	CONCRETE ADDITIVES	Е	3	0	3	3	5
INS-5033	REINFORCEMENT CORROSION IN REINFORCED CONCRETE STRUCTURES	Е	3	0	3	3	5
INS-5034	CUSTOM DESIGN OF CONCRETE AND DURABILITY	Е	3	0	3	3	5
INS-5035	HIGHWAY SAFETY DESIGN PRINCIPLES	E	3	0	3	3	5
INS-5036	ENVIRONMENTAL IMPACTS OF TRANSPORT	Е	3	0	3	3	5
INS-5037	PREVENTIVE MAINTENANCE ASPHALT PAVEMENTS	E	3	0	3	3	5
INS-5038	RAIL SYSTEMS	Е	3	0	3	3	5
INS-5039	IMAGE PROCESSING ENGINEERING	E	3	0	3	3	5
INS-5040	REINFORCED CONCRETE CARRYING CAPACITY ANALYSIS METHODS	Е	3	0	3	3	5
INS-5041	EARTHQUAKE RESISTANT DESIGN	Е	3	0	3	3	5
INS-5042	STRUCTURAL DAMAGES AND SOLUTIONS	Е	3	0	3	3	5
INS-5043	ADVANCED STRUCTURAL ANALYSIS	Е	3	0	3	3	5
INS-5044	ORGANIZATION OF REINFORCED CONCRETE STRUCTURAL SYSTEMS	Е	3	0	3	3	5
INS-5045	USE OF REINFORCED CONCRETE AND STEEL BUILDING PROGRAM	Е	3	0	3	3	5
INS-5046	INSULATION APPLICATION	Е	3	0	3	3	5
INS-5047	CONSTRUCTION WASTE RECYCLING	Е	3	0	3	3	5
INS-5048	CONSTRUCTION RAW MATERIALS	Е	3	0	3	3	5
INS-5049	HYDRODYNAMIC	Е	3	0	3	3	5
INS-5050	VİSCOELASTICITY	Е	3	0	3	3	5
INS-5051	FRACTURE STRAIN RELATIONS	Е	3	0	3	3	5
INS-5052	STOCHASTIC HYDROLOGY	Е	3	0	3	3	5
INS-5053	EXPERIMENT DESIGN AND ANALYSIS	Е	3	0	3	3	5
INS-5054	CONCRETE BEHAVIOR	Е	3	0	3	3	5
INS-5055	GROUNDWATER HYDRAULICS	Е	3	0	3	3	5
INS-5056	HYDRAULIC DESIGN OF DAMS	Е	3	0	3	3	5
INS-5057	EXPERIMENT DESIGN AND ANALYSIS	Е	3	0	3	3	5
INS-5058	CONCRETE BEHAVIOR	Е	3	0	3	3	5
INS-5059	GEOMETRICAL DESIGN OF RAILWAYS	Е	3	0	3	3	5
INS-5060	GEOMETRICAL DESIGN OF HIGHWAYS	Е	3	0	3	3	5







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#### **GRADUATE PROGRAMS**

COURSE	COURSE NAME	C/E	(	COUR	SE CR	EDIT	*
CODE	COURSE NAME	C/E	TH	AP	то	CR	EC
INS-5061	SUSTAINABILITY IN TRANSPORTATION SYSTEM	Е	3	0	3	3	5
INS-5062	PAVEMENT DESIGN	Е	3	0	3	3	5
INS-5063	FIRE RESISTANCE OF STRUCTURES	Е	3	0	3	3	5
INS-5064	DESIGN OF TIMBER STRUCTURES ACCORDING TO EUROCODE 5	Е	3	0	3	3	5
INS-5065	QUALITY CONTROL SYSTEMS AND CE CODE IN CIVIL ENGINEERING	Е	3	0	3	3	5
INS-5066	ELASTIC STABILITY THEORY	Е	3	0	3	3	5
INS-5067	RISK ANALYSIS WITH THE OCCUPATIONAL SAFETY AND HEALTH IN CONSTRUCTION	Е	3	0	3	3	5
INS-5068	ADVANCED STRENGTH OF STRUCTURES	Е	3	0	3	3	5
INS-5069	TRADITIONAL BUILDING MATERIALS	Е	3	0	3	3	5
INS-5070	COMPUTER AIDED MODELING OF GROUNDWATER	Е	3	0	3	3	5
INS-5071	ARTIFICIAL NEURAL NETWORKS AND CIVIL ENGINEERING APPLICATIONS	Е	3	0	3	3	5
INS-5072	FLOOD HYDROLOGY	Е	3	0	3	3	5
INS-5073	DROUGHT HYDROLOGY	Е	3	0	3	3	5
INS-5074	POLYMER MATERIALS IN CONSTRUCTION	Е	3	0	3	3	5
INS-5075	THEORY OF PLATES	Е	3	0	3	3	5
INS-5076	THEORY OF SHELL	Е	3	0	3	3	5
INS-5077	PLASTIC ANALYSIS OF STRUCTURES	Е	3	0	3	3	5
INS-5078	FIBER CEMENT-BASED COMPOSITES	Е	3	0	3	3	5
INS-5079	FINITE ELEMENT METHOD	Е	3	0	3	3	5
INS-5080	LIGHTWEIGHT CONCRETE TECHNOLOGY	Е	3	0	3	3	5
INS-5081	FUZZY LOGIC AND CIVIL ENGINEERING APPLICATIONS	Е	3	0	3	3	5
INS-6001	COMPOSITE MATERIALS IN CONSTRUCTION	Е	3	0	3	3	5
INS-6002	EARTHQUAKE ENGINEERING	Е	3	0	3	3	5
INS-6003	PRESTRESSED CONCRETE STRUCTURES	Е	3	0	3	3	5
INS-6004	HOT BITUMINOUS MIXTURES	Е	3	0	3	3	5
INS-6005	ROAD PAVEMENT ENGINEERING AND PERFORMANCE	Е	3	0	3	3	5
INS-6006	BUILDINGS ENERGY CONSERVATION	Е	3	0	3	3	5
INS-6007	ECOLOGICAL MATERIALS	Е	3	0	3	3	5
INS-6008	ADVANCED BUILDING PHYSICS	Е	3	0	3	3	5







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COURSE	COURSE NAME	C/E	(	COUR	SE CR	EDIT	*
CODE	COOKSENAME	CIE	TH	AP	то	CR	EC
INS-6009	FLOOD CONTROL	Е	3	0	3	3	5
INS-6010	SOIL IMPROVEMENT	Е	3	0	3	3	5
INS-6011	THEORY OF ELASTICITY	Е	3	0	3	3	5
INS-6012	TRAFFIC ENGINEERING AND APPLICATIONS	Е	3	0	3	3	5
INS-6013	TRANSPORTATION PLANNING	Е	3	0	3	3	5
INS-6014	REINFORCEMENT CORROSION IN REINFORCED CONCRETE STRUCTURES	Е	3	0	3	3	5
INS-6015	PREVENTIVE MAINTENANCE ASPHALT PAVEMENTS	E	3	0	3	3	5
INS-6016	RAIL SYSTEMS	Е	3	0	3	3	5
INS-6017	ADVANCED STRUCTURAL ANALYSIS	Е	3	0	3	3	5
INS-6018	USE OF REINFORCED CONCRETE AND STEEL BUILDING PROGRAM	Е	3	0	3	3	5
INS-6019	HYDRODYNAMIC	Е	3	0	3	3	5
INS-6020	VİSCOELASTICITY	Е	3	0	3	3	5
INS-6021	FRACTURE STRAIN RELATIONS	Е	3	0	3	3	5
INS-6022	STOCHASTIC HYDROLOGY	Е	3	0	3	3	5
INS-6023	COMPUTER DATA ANALYSIS	Е	3	0	3	3	5
INS-6024	ENERGY EFFICIENT BUILDING SYSTEMS	Е	3	0	3	3	5
INS-6025	HEAT INSULATION MATERIALS	E	3	0	3	3	5
INS-6026	ADVANCED STRUCTURAL DYNAMICS	Е	3	0	3	3	5
EGT-6001	DEVELOPMENT AND LEARNING	Е	3	0	3	3	5
EGT-6002	INSTRUCTIONAL PLANNING AND EVALUATION	Е	3	0	3	3	5