



AFYON KOCATEPE UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF MOLECULAR BIOLOGY AND GENETICS



DOCTOR OF PHILOSOPHY (PhD) PROGRAM

FIRST YEAR

FIRST SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MBG-6501	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MBG-6601	THESIS PREPARATION	C	0	1	1	0	1	
	ELECTIVE COURSE	E	3	0	3	3	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	
TOPLAM			20	1	21	12	30	

SECOND SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MBG-6502	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MBG-6602	THESIS PREPARATION	C	0	1	1	0	1	
	ELECTIVE COURSE	E	3	0	3	3	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	
TOTAL			20	1	21	12	30	



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SECOND YEAR

THIRD SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MBG-6503	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MBG-6603	THESIS PREPARATION	C	0	1	1	0	1	
MBG-6701	SEMINAR	C	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	
TOTAL			17	3	20	9	30	

FOURTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MBG-6504	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MBG-6604	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	



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THIRD YEAR

FIFTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MBG-6505	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MBG-6605	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

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

FOURTH YEAR

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

EIGHTH SEMESTER								
COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*					
			TH	AP	TO	CR	EC	
MBG-6508	DIRECTED FIELD STUDIES	C	8	0	8	0	9	
MBG-6608	THESIS	C	0	1	1	0	21	
TOTAL			8	1	9	0	30	

ELECTIVE COURSES



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COURSE CODE	COURSE NAME	C/E	COURSE CREDIT*				
			TH	AP	TO	CR	EC
FBE-5001	SCIENTIFIC RESEARCH AND METHODS	C	3	0	3	3	5
MBG-6001	MOLECULAR BASIS OF CANCER	E	3	0	3	3	5
MBG-6002	PHARMACOGENOMICS AND GENOTOXICITY	E	3	0	3	3	5
MBG-6003	PCR-BASED GENETIC ANALYSIS AND GENETIC ANALYSIS METHODS	E	3	0	3	3	5
MBG-6004	TECHNOLOGY FOR PLANT PROTECTION	E	3	0	3	3	5
MBG-6005	TAXONOMICAL TERMINOLOGY IN BOTANY	E	3	0	3	3	5
MBG-6006	ADVANCED ENVIRONMENTAL BIOLOGY	E	3	0	3	3	5
MBG-6007	PLANT MOLECULAR SYSTEMATIC	E	3	0	3	3	5
MBG-6008	PLANT GENOMICS AND PROTEOMICS	E	3	0	3	3	5
MBG-6009	PLANT GROWTH REGULATORS AND MOLECULAR MECHANISMS	E	3	0	3	3	5
MBG-6010	PLANT CHEMISTRY AND MOLECULAR BIOLOGY	E	3	0	3	3	5
MBG-6011	MOLECULAR BASIS OF STRESS PHYSIOLOGY OF PLANTS	E	3	0	3	3	5
MBG-6012	AQUATIC ENTOMOLOGY	E	3	0	3	3	5
MBG-6013	COMPUTER APPLIED STATISTIC	E	3	0	3	3	5
MBG-6014	MICROBIAL ECOLOGY	E	3	0	3	3	5
MBG-6015	SYSTEMATIC ZOOLOGY	E	3	0	3	3	5
MBG-6016	BIOCLIMATOLOGY AND METHODS	E	3	0	3	3	5
MBG-6017	PLANT DIVERSITY IN AQUATIC AREAS	E	3	0	3	3	5
MBG-6018	GROWTH AND DEVELOPMENT PHYSIOLOGY	E	3	0	3	3	5
MBG-6019	RECOMBINANT DNA TECHNOLOGY	E	3	0	3	3	5
MBG-6020	METHODS ON GENETIC TOXICOLOGY	E	3	0	3	3	5
MBG-6021	PLANT SECONDER METHOBOLITES	E	3	0	3	3	5
MBG-6022	PROCARYOTIC GENE EXPRESSION	E	3	0	3	3	5
MBG-6023	BIOMATERIALS	E	3	0	3	3	5
MBG-6024	MICROBIAL SYSTEMATICS	E	3	0	3	3	5
MBG-6025	BIOCHEMISTRY OF FREE RADICALS	E	3	0	3	3	5
MBG-6026	BIOCHEMISTRY OF CARCINOGEN AND MUTAGENS	E	3	0	3	3	5
MBG-6027	ADVANCED MOLECULAR BIOLOGY	E	3	0	3	3	5
MBG-6028	SPECIAL SUBJECTS IN ECOLOGY	E	3	0	3	3	5
MBG-6029	BIOAVAILABILITY OF NATURAL PLANTS	E	3	0	3	3	5
MBG-6030	COMPUTER APPLIED BIOINFORMATICS	E	3	0	3	3	5
MBG-6031	WILDLIFE DISEASE MOLECULAR DIAGNOSIS	E	3	0	3	3	5



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MBG-6032	EPIDEMIOLOGY	E	3	0	3	3	5
MBG-6033	PLANT GROWTH	E	3	0	3	3	5
MBG-6034	CURRENT TOPICS IN MOLECULAR BIOLOGY	E	3	0	3	3	5
MBG-6035	MOLECULAR TAXONOMY METHODS IN ZOOLOGY	E	3	0	3	3	5
MBG-6036	POLYAMINES AND CANCER	E	3	0	3	3	5
MBG-6037	CELL CYCLE AND APOPTOSIS	E	3	0	3	3	5
MBG-6038	DNA MARKERS AND PLANT BREEDING	E	3	0	3	3	5
MBG-6039	PLANT SIGNAL TRANSDUCTION AN GENE REGULATION	E	3	0	3	3	5
MBG-6040	MOLECULAR GENETICS OF PLANT DEVELOPMENT	E	3	0	3	3	5
EGT-6001	DEVELOPMENT AND LEARNING	E	3	0	3	3	5
EGT-6002	INSTRUCTIONAL PLANNING AND EVALUATION	E	3	0	3	3	5