




**ULUDAĞ ÜNİVERSİTESİ**  
**FEN BİLİMLERİ ENSTİTÜSÜ**  
**2020-2021 EĞİTİM ÖĞRETİM YILI DERS PLANLARI**

ANABİLİM DALI		Bitki Islahı Genetiği ve Biyoteknolojisi													
BİLİM DALI / ROGRAMI		Bitki Islahı Genetiği ve Biyoteknolojisi / Doktora Programı													
I. YARIYIL / GÜZ								II. YARIYIL / BAHAR							
Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS
BIGB6191	TEZ DANIŞMANLIĞI I	Z	0	1	0	0	1	BIGB6192	TEZ DANIŞMANLIĞI II	Z	0	1	0	0	1
BIGB6181	DOKTORA UZMANLIK ALAN DERSİ I	Z	4	0	0	0	5	BIGB6182	DOKTORA UZMANLIK ALAN DERSİ II	Z	4	0	0	0	5
BIGB6001	BİTKİ BİYOTEKNOLOJİSİNİN ESASLARI	Z	3	0	0	3	6	BIGB6172	SEMİNER	Z	0	2	0	0	4
								FEN6000	ARAŞTIRMA TEKNİKLERİ VE YAYIN ETİĞİ	Z	2	0	0	2	2
BIGB6003	KANTİTATİF BİTKİ ISLAHI	S	3	0	0	3	6	BIGB6002	İLERİ BİTKİ ISLAHI	Z	3	0	0	3	6
BIGB6005	BİTKİ ISLAHI VE GENETİĞİNDE BİYOTEKNOLOJİ UYGULAMALARI	S	2	0	2	3	6	BIGB6004	QTL HARİTALAMA	S	3	0	0	3	6
BIGB6007	GENOM ANALİZİ VE KARŞILAŞTIRMALI HARİTALAMA	S	3	0	0	3	6	BIGB6006	MOLEKÜLER BİTKİ ISLAHI	S	3	0	0	3	6
BIGB6009	BİTKİ MUKAVEMETİNİN MEKANİZMALARI VE ADAPTASYON STRATEJİLERİ	S	3	0	0	3	6	BIGB6008	GENOMİK DÜZEYE İLİŞKİLENDİRME İLE HARİTALAMA	S	2	0	2	3	6
BIGB6011	BİTKİ FİZYOLOJİSİ: BÜYÜME, GELİŞME VE ÇEVRE	S	3	0	0	3	6	BIGB6010	BITKI ISLAHINDA KULLANILAN MOLEKÜLER METODLAR VE GENOMİK	S	3	0	0	3	6
BIGB6013	BİTKİ ISLAHININ GENETİK VE SİTOGENETİK ESASLARI	S	3	0	0	3	6	BIGB6012	FİTOHORMONLAR VE KULLANIM ALANLARI	S	3	0	0	3	6
BIGB6015	BİTKİ ISLAHINDA MUTASYON	S	3	0	0	3	6	BIGB6014	İLERİ BİTKİ FİZYOLOJİSİ VE METOBOLİZMA	S	3	0	0	3	6
BIGB6017	UYGULAMALI BİYOİNFORMATİK	S	3	0	0	3	6	BIGB6016	BİTKİLERDE BİYOTİK KOŞULLARA KARŞI MUKAVEMET ISLAHI	S	3	0	0	3	6
BIGB6019	GENETİK MÜHENDİSLİĞİ UYGULAMALARI VE BİYOGÜVENLİK	S	3	0	0	3	6	BIGB6018	HETEROSİS ISLAHI	S	3	0	0	3	6
BIGB6021	İLERİ BİTKİ DOKU KÜLTÜRÜ TEKNİKLERİ	S	2	0	2	3	6	BIGB6020	MOLEKÜLER BİTKİ PATOLOJİSİ	S	3	0	0	3	6
BIGB6023	KIŞLIK SEBZE TÜRLERİNİN ISLAHI	S	3	0	0	3	6	BIGB6022	BİTKİLERE GEN AKTARIMI VE TRANSGENİK BİTKİLER	S	3	0	0	3	6
								BIGB6024	TARIMDA BİYOTEKNOLOJİ: UYGULAMA VE ETİK	S	2	0	2	3	6
								BIGB6026	YAZLIK SEBZE TÜRLERİNİN ISLAHI	S	3	0	0	3	6
<b>TOPLAM KREDİ</b>						<b>12</b>	<b>30</b>	<b>TOPLAM KREDİ</b>						<b>11</b>	<b>30</b>
III. YARIYIL / GÜZ								IV. YARIYIL / BAHAR							
BIGB6183	DOKTORA UZMANLIK ALAN DERSİ III	Z	4	0	0	0	5	BIGB6184	DOKTORA UZMANLIK ALAN DERSİ IV	Z	4	0	0	0	5
BIGB6193	TEZ DANIŞMANLIĞI III	Z	0	1	0	0	15	BIGB6194	TEZ DANIŞMANLIĞI IV	Z	0	1	0	0	25
YET6177	DOKTORA YETERLİLİK SINAVI	Z	0	0	0	0	10								
<b>TOPLAM KREDİ</b>						<b>0</b>	<b>30</b>	<b>TOPLAM KREDİ</b>						<b>0</b>	<b>30</b>
V. YARIYIL / GÜZ								VI. YARIYIL / BAHAR							
BIGB6185	DOKTORA UZMANLIK ALAN DERSİ V	Z	4	0	0	0	5	BIGB6196	TEZ DANIŞMANLIĞI VI	Z	0	1	0	0	25
BIGB6195	TEZ DANIŞMANLIĞI V	Z	0	1	0	0	25	BIGB6186	DOKTORA UZMANLIK ALAN DERSİ VI	Z	4	0	0	0	5

DERS AŞAMASI

TOPLAM KREDİ								0	30	TOPLAM KREDİ								0	30				
VII. YARIYIL / GÜZ								VIII. YARIYIL / BAHAR															
BIGB6187	DOKTORA UZMANLIK ALAN DERSİ VII	Z	4	0	0	0	5	BIGB6188	DOKTORA UZMANLIK ALAN DERSİ VIII	Z	4	0	0	0	5								
BIGB6197	TEZ DANIŞMANLIĞI VIII	Z	0	1	0	0	25	BIGB6198	TEZ DANIŞMANLIĞI VIII	Z	0	1	0	0	25								
TOPLAM KREDİ								0	30	TOPLAM KREDİ								0	30				
<b>TOPLAM KREDİ: 23- TOPLAM AKTS: 240</b>																							

EK: 4/7

 <b>ULUDAĞ UNIVERSITY</b> <b>GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES</b> <b>2020-2021 ACADEMIC YEAR COURSE PLAN</b>																
DEPARTMENT OF		Plant Breeding Genetics and Biotechnology														
DEPARTMENT / PROGRAM		Plant Breeding Genetics and Biotechnology / Doctoral 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
	BIGB6191	PHD THESIS CONSULTING I	C	0	1	0	0	1	BIGB6192	PHD THESIS CONSULTING II	C	0	1	0	0	1
	BIGB6181	ADVANCED TOPICS IN PHD THESIS I	O	4	0	0	0	5	BIGB6182	ADVANCED TOPICS IN PHD THESIS II	O	4	0	0	0	5
	BIGB6001	PRINCIPLES OF PLANT BIOTECHNOLOGY	Z	3	0	0	3	6	BIGB6172	SEMINAR	C	0	2	0	0	4
									FEN6000	RESEARCH TECHNIQUES AND PUBLICATION ETHICS	Z	2	0	0	2	2
	BIGB6003	QUANTITATIVE PLANT BREEDING	S	3	0	0	3	6	BIG6002	ADVANCED PLANT BREEDING	Z	3	0	0	3	6
BIGB6005	BIOTECHNOLOGICAL APPLICATION IN PLANT BGRREDING AND GENETICS	S	2	0	2	3	6	BIGB6004	QTL MAPPING	S	3	0	0	3	6	
								BIGB6006	MOLECULAR PLANT BREEDING	S	3	0	0	3	6	

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BIGB6007	GENOME ANALYSIS AND COMPERATIVE MAPPING	S	3	0	0	3	6	BIGB6008	GENOME-WIDE ASSOCIATION MAPPING	S	2	0	2	3	6
BIGB6009	MECHANISMS OF PLANT RESISTANCE AND ADAPTATION STRATEGIES	S	3	0	0	3	6	BIGB6010	MOLECULAR METHODS FOR PLANT BREEDING AND GENOMIKS	S	3	0	0	3	6
BIGB6011	PLANT PHYSIOLOGY: GROWTH, DEVELOPMENT AND ENVIRONMENT	S	3	0	0	3	6	BIGB6012	PHYTOORMONS AND THEIR APPLICATION	S	3	0	0	3	6
BIGB6013	GENETIC AND CYTOGENETIC PRINCIPLES OF PLANT BREEDING	S	3	0	0	3	6	BIGB6014	ADVANCED PLANT PHYSIOLOGY AND METABOLISM	S	3	0	0	3	6
BIGB6015	MUTATION IN PLANT BREEDING	S	3	0	0	3	6	BIGB6016	BREEDING FOR RESISTANCE TO BIOTIC CONDITIONS IN PLANTS	S	3	0	0	3	6
BIGB6017	APPLIED BIOINFORMATICS	S	3	0	0	3	6	BIGB6018	BREEDING FOR HETEROSIS	S	3	0	0	3	6
BIGB6019	APPLICATIONS OF GENETIC ENGINEERING AND BIOSAFETY	S	3	0	0	3	6	BIGB6020	MOLECULAR PLANT PATHOLOJİ	S	3	0	0	3	6
BIGB6021	ADVANCED PLANT TISSUE CULTURE TECHNIQUES	S	2	0	2	3	6	BIGB6022	GENETIC TRANSFORMATION AND TRANSGENIC PLANTS	S	3	0	0	3	6
BIGB6023	BREEDING COOL SEASON VEGETABLE CROPS	S	3	0	0	3	6	BIGB6024	APPLICATION OF AGRICULTURAL BIOTECHNOLOGY AND ETHICS	S	2	0	2	3	6
								BIGB6026	BREEDING SUMMER SEASON VEGETABLE CROPS	S	3	0	0	3	6
<b>TOPLAM KREDİ</b>								<b>TOPLAM KREDİ</b>							
<b>14</b>								<b>12</b>							
<b>30</b>								<b>30</b>							
<b>III. TERM / FALL</b>								<b>IV. TERM / SPRING</b>							
BIGB6183	ADVANCED TOPICS IN PHD THESIS III	C	4	0	0	0	5	BIGB6184	ADVANCED TOPICS IN PHD THESIS IV	C	4	0	0	0	5
BIGB6193	PHD THESIS CONSULTING III	C	0	1	0	0	15	BIGB6194	PHD THESIS CONSULTING IV	C	0	1	0	0	25
YET6177	PHD PROFICIENCY EXAMINATION	C	0	0	0	0	10								
<b>TOPLAM KREDİ</b>								<b>TOPLAM KREDİ</b>							
<b>0</b>								<b>0</b>							
<b>30</b>								<b>30</b>							
<b>V. TERM / FALL</b>								<b>VI. TERM / SPRING</b>							
BIGB6185	ADVANCED TOPICS IN PHD THESIS V	C	4	0	0	0	5	BIGB6186	ADVANCED TOPICS IN PHD THESIS VI	C	4	0	0	0	5
BIGB6195	PHD THESIS CONSULTING V	C	0	1	0	0	25	BIGB6196	PHD THESIS CONSULTING VI	C	0	1	0	0	25
<b>TOPLAM KREDİ</b>								<b>TOPLAM KREDİ</b>							
<b>30</b>								<b>0</b>							
<b>30</b>								<b>30</b>							
<b>VII. TERM / FALL</b>								<b>VII. TERM / SPRING</b>							
BIGB6187	ADVANCED TOPICS IN PHD THESIS VII	C	4	0	0	0	5	BIGB6188	ADVANCED TOPICS IN PHD THESIS VIII	C	4	0	0	0	5
BIGB6197	PHD THESIS CONSULTING VIII	C	0	1	0	0	25	BIGB6198	PHD THESIS CONSULTING VIII	C	0	1	0	0	25
<b>TOPLAM KREDİ</b>								<b>TOPLAM KREDİ</b>							
<b>0</b>								<b>0</b>							
<b>30</b>								<b>30</b>							
<b>TOTAL CREDITS: 26 - TOTAL ECTS: 240</b>															