



**BURSA ULUDAĞ ÜNİVERSİTESİ**  
**FEN BİLİMLERİ ENSTİTÜSÜ**  
**2019-2020 EĞİTİM ÖĞRETİM YILI DERS PLANLARI**

ANABİLİM DALI		Bitki Islahı Genetiği ve Biyoteknolojisi																			
BİLİM DALI / PROGRAMI		Bitki Islahı Genetiği ve Biyoteknolojisi / Doktora Programı																			
<b>DERS AŞAMASI</b>	<b>I. YARIYIL / GÜZ</b>								<b>II. YARIYIL / BAHAR</b>												
	<b>Kodu</b>	<b>Dersin Adı</b>	<b>Türü</b>	<b>T</b>	<b>U</b>	<b>L</b>	<b>Kredi</b>	<b>AKTS</b>	<b>Kodu</b>	<b>Dersin Adı</b>	<b>Türü</b>	<b>T</b>	<b>U</b>	<b>L</b>	<b>Kredi</b>	<b>AKTS</b>					
	BIGB6191	TEZ DANIŞMANLIĞI I	Z	0	1	0	0	1	BIGB6192	TEZ DANIŞMANLIĞI II	Z	0	1	0	0	1					
	BIGB6001	BİTKİ BİYOTEKNOLOJİSİNİN ESASLARI	Z	3	0	0	3	6	BIGB6172	SEMİNER	Z	0	2	0	0	4					
	BIGB6181	DOKTORA UZMANLIK ALAN DERSİ I	Z	4	0	0	0	5	FEN6000	ARAŞTIRMA TEKNİKLERİ VE YAYIN ETİĞİ	Z	2	0	0	2	2					
	BİG	SEÇMELİ DERS	S				3	6	BIGB6002	İLERİ BİTKİ ISLAHI	Z	3	0	0	3	6					
	BİG	SEÇMELİ DERS	S				3	6	BIGB6182	DOKTORA UZMANLIK ALAN DERSİ II	S	4	0	0	0	5					
	BİG	SEÇMELİ DERS	S				3	6	BİG	SEÇMELİ DERS	S				3	6					
									BİG	SEÇMELİ DERS	S				3	6					
	<b>TOPLAM KREDİ</b>								<b>12</b>	<b>TOPLAM KREDİ</b>								<b>11</b>	<b>AKTS</b>		<b>30</b>
<b>TEZ AŞAMASI</b>	<b>III. YARIYIL / GÜZ</b>								<b>IV. YARIYIL / BAHAR</b>												
	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>TOPLAM KREDİ</b>								<b>0</b>	<b>AKTS</b>		<b>30</b>
	<b>V. YARIYIL / GÜZ</b>								<b>VI. YARIYIL / BAHAR</b>												
	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					
	<b>TOPLAM KREDİ</b>								<b>0</b>	<b>TOPLAM KREDİ</b>								<b>0</b>	<b>AKTS</b>		<b>30</b>
	<b>VII. YARIYIL / GÜZ</b>								<b>VIII. YARIYIL / BAHAR</b>												
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						
<b>TOPLAM KREDİ</b>								<b>0</b>	<b>TOPLAM KREDİ</b>								<b>0</b>	<b>AKTS</b>		<b>30</b>	
<b>TOPLAM KREDİ: 23- TOPLAM AKTS: 240</b>																					



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**FEN BİLİMLERİ ENSTİTÜSÜ**  
**2019-2020 EĞİTİM ÖĞRETİM YILI DERS PLANLARI (SEÇMELİ DERSLER)**

ANABİLİM DALI		Bitki Islahı Genetiği ve Biyoteknolojisi														
BİLİM DALI / PROGRAMI		Bitki Islahı Genetiği ve Biyoteknolojisi / Doktora Programı														
DERS AŞAMASI	I. YARIYIL / GÜZ								II. YARIYIL / BAHAR							
	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS	Kodu	Dersin Adı	Türü	T	U	L	Kredi	AKTS
	BIGB6003	KANTİTATİF BİTKİ ISLAHI	S	3	0	0	3	6	BIGB6004	QTL HARİTALAMA	S	3	0	0	3	6
	BIGB6005	BİTKİ ISLAHI VE GENETİĞİNDE BİYOTEKNOLOJİ UYGULAMALARI	S	2	0	2	3	6	BIGB6006	MOLEKÜLER BİTKİ ISLAHI	S	3	0	0	3	6
	BIGB6007	GENOM ANALİZİ VE KARŞILAŞTIRMALI HARİTALAMA	S	3	0	0	3	6	BIGB6008	GENOMİK DÜZEYE İLİŞKİLENDİRME İLE HARİTALAMA	S	2	0	2	3	6
	BIGB6009	BİTKİ MUKAVEMETİNİN MEKANİZMALARI VE ADAPTASYON STRATEJİLERİ	S	3	0	0	3	6	BIGB6010	BİTKİ ISLAHINDA KULLANILAN MOLEKÜLER METODLAR VE GENOMİK	S	3	0	0	3	6
	BIGB6011	BİTKİ FİZYOLOJİSİ: BÜYÜME, GELİŞME VE ÇEVRE	S	3	0	0	3	6	BIGB6012	FİTOHORMONLAR VE KULLANIM ALANLARI	S	3	0	0	3	6
	BIGB6013	BİTKİ ISLAHININ GENETİK VE SİTOGENETİK ESASLARI	S	3	0	0	3	6	BIGB6014	İLERİ BİTKİ FİZYOLOJİSİ VE METOBOLİZMA	S	3	0	0	3	6
	BIGB6015	BİTKİ ISLAHINDA MUTASYON	S	3	0	0	3	6	BIGB6016	BİTKİLERDE BİYOTİK KOŞULLARA KARŞI MUKAVEMET ISLAHI	S	3	0	0	3	6
	BIGB6017	UYGULAMALI BİYOİNFORMATİK	S	3	0	0	3	6	BIGB6018	HETEROSİS ISLAHI	S	3	0	0	3	6
BIGB6019	GENETİK MÜHENDİSLİĞİ UYGULAMALARI VE BİYOGÜVENLİK	S	3	0	0	3	6	BIGB6020	MOLEKÜLER BİTKİ PATOLOJİSİ	S	3	0	0	3	6	
BIGB6021	İLERİ BİTKİ DOKU KÜLTÜRÜ TEKNİKLERİ	S	2	0	2	3	6	BIGB6022	BİTKİLERE GEN AKTARIMI VE TRANSGENİK BİTKİLER	S	3	0	0	3	6	
BIGB6023	KIŞLIK SEBZE TÜRLERİNİN ISLAHI	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	



**BURSA ULUDAĞ UNIVERSITY**  
**GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES**  
**2019-2020 ACADEMIC YEAR COURSE PLAN**

DEPARTMENT OF		Plant Breeding Genetics and Biotechnology																		
DEPARTMENT / PROGRAM		Plant Breeding Genetics and Biotechnology / Doctoral Program																		
<b>COURSE STAGE</b>	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				
	BIGB6001	PRINCIPLES OF PLANT BIOTECHNOLOGY	C	3	0	0	3	6	BIGB6172	SEMINAR	C	0	2	0	0	4				
	BIGB6181	ADVANCED TOPICS IN PHD THESIS I	C	4	0	0	0	5	FEN6000	RESEARCH TECHNIQUES AND PUBLICATION ETHICS	C	2	0	0	2	2				
	BIG	ELECTIVE COURSE	E				3	6	BIG6002	ADVANCED PLANT BREEDING	C	3	0	0	3	6				
	BIG	ELECTIVE COURSE	E				3	6	BIGB6182	ADVANCED TOPICS IN PHD THESIS II	C	4	0	0	0	5				
	BIG	ELECTIVE COURSE *	E				3	6	BIG	ELECTIVE COURSE	E				3	6				
									BIG	ELECTIVE COURSE	E				3	6				
<b>TOPLAM KREDİ</b>								<b>12</b>	<b>30</b>	<b>TOPLAM KREDİ</b>								<b>11</b>	<b>30</b>	
<b>THESIS STAGE</b>	III. TERM / FALL								IV. TERM / SPRING											
	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>0</b>	<b>30</b>	<b>TOPLAM KREDİ</b>								<b>0</b>	<b>30</b>
	V. TERM / FALL								VI. TERM / SPRING											
	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>30</b>	<b>30</b>	<b>TOPLAM KREDİ</b>								<b>0</b>	<b>30</b>
	VII. TERM / FALL								VII. TERM / SPRING											
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>0</b>	<b>30</b>	<b>TOPLAM KREDİ</b>								<b>0</b>	<b>30</b>	
<b>TOTAL CREDITS: 23 - TOTAL ECTS: 240</b>																				



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**GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES**  
**2019-2020 ACADEMIC YEAR COURSE PLAN (ELECTIVE COURSES)**

<b>DEPARTMENT OF</b>		<b>Plant Breeding Genetics and Biotechnology</b>													
<b>DEPARTMENT / PROGRAM</b>		PlantBreeding Genetics andBiotechnology / Doctoral Program													
<b>I. TERM / FALL</b>									<b>II. TERM / SPRING</b>						
<b>Code</b>	<b>Course Title</b>	<b>Type</b>	<b>T</b>	<b>U</b>	<b>L</b>	<b>Credit</b>	<b>ECTS</b>	<b>Code</b>	<b>Course Title</b>	<b>Type</b>	<b>T</b>	<b>U</b>	<b>L</b>	<b>Credit</b>	<b>ECTS</b>
BIGB6003	QUANTITATIVE PLANT BREEDING	E	3	0	0	3	6	BIGB6004	QTL MAPPING	E	3	0	0	3	6
BIGB6005	BIOTECHNOLOGICAL APPLICATION IN PLANT BGRREDING AND GENETICS	E	2	0	2	3	6	BIGB6006	MOLECULAR PLANT BREEDING	E	3	0	0	3	6
BIGB6007	GENOME ANALYSIS AND COMPERATIVE MAPPING	E	3	0	0	3	6	BIGB6008	GENOME-WIDE ASSOCIATION MAPPING	E	2	0	2	3	6
BIGB6009	MECHANISMS OF PLANT RESISTANCE AND ADAPTATION STRATEGIES	E	3	0	0	3	6	BIGB6010	MOLECULAR METHODS FOR PLANT BREEDING AND GENOMIKS	E	3	0	0	3	6
BIGB6011	PLANT PHYSIOLOGY: GROWTH, DEVELOPMENT AND ENVIRONMENT	E	3	0	0	3	6	BIGB6012	PHYTOORMONS AND THEIR APPLICATION	E	3	0	0	3	6
BIGB6013	GENETIC AND CYTOGENETIC PRINCIPLES OF PLANT BREEDING	E	3	0	0	3	6	BIGB6014	ADVANCED PLANT PHYSIOLOGY AND METABOLISM	E	3	0	0	3	6
BIGB6015	MUTATION IN PLANT BREEDING	E	3	0	0	3	6	BIGB6016	BREEDING FOR RESISTANCE TO BIOTIC CONDITIONS IN PLANTS	E	3	0	0	3	6
BIGB6017	APPLIED BIOINFORMATICS	E	3	0	0	3	6	BIGB6018	BREEDING FOR HETEROSIS	E	3	0	0	3	6
BIGB6019	APPLICATIONS OF GENETIC ENGINEERING AND BIOSAFETY	E	3	0	0	3	6	BIGB6020	MOLECULAR PLANT PATHOLOJI	E	3	0	0	3	6
BIGB6021	ADVANCED PLANT TISSUE CULTURE TECHNIQUES	E	2	0	2	3	6	BIGB6022	GENETIC TRANSFORMATION AND TRANSGENIC PLANTS	E	3	0	0	3	6
BIGB6023	BREEDING COOL SEASON VEGETABLE CROPS	E	3	0	0	3	6	BIGB6024	APPLICATION OF AGRICULTURAL BIOTECHNOLOGY AND ETHICS	E	2	0	2	3	6
								BIGB6026	BREEDING SUMMER SEASON VEGETABLE CROPS	E	3	0	0	3	6

COURSE STAGE