

**Hayvansal Üretim ve Teknolojileri Bölümü Öğrencileri için  
Tarımsal Genetik Mühendisliği Bölümü Çift Ana Dal Programı Ders Listesi**

<b>II. YARIYIL</b>				
<b>Dersin Kodu</b>	<b>Dersin Adı</b>	<b>Teorik</b>	<b>Uygulama</b>	<b>AKTS</b>
TGM1006	INTRODUCTION TO AGRICULTURAL GENETIC ENGINEERING	2	0	4
TGM1008	BIOLOGY OF CROP SPECIES	2	2	5
	<b>Toplam</b>	<b>4</b>	<b>2</b>	<b>9</b>
<b>III. YARIYIL</b>				
<b>Dersin Kodu</b>	<b>Dersin Adı</b>	<b>Teorik</b>	<b>Uygulama</b>	<b>AKTS</b>
TGM2009	PLANT PRODUCTION AND TECHNOLOGIES	2	2	5
TGM2011	INTRODUCTION TO BIOTECHNOLOGY	2	0	3
TGM2013	PROFESSIONAL ENGLISH	2	0	2
	<b>Toplam</b>	<b>6</b>	<b>2</b>	<b>10</b>
<b>IV. YARIYIL</b>				
<b>Dersin Kodu</b>	<b>Dersin Adı</b>	<b>Teorik</b>	<b>Uygulama</b>	<b>AKTS</b>
TGM2002	PLANT PHYSIOLOGY	2	1	4
TGM2004	HORTICULTURE	2	1	4
TGM2006	FIELD CROPS	2	1	4
TGM2008	PLANT SYSTEMATICS	2	1	4
TGM2010	PLANT CELL, TISSUE AND ORGAN CULTURE	2	2	5
TGM2012	PLANT GENETIC RESOURCES	2	0	3
	<b>Toplam</b>	<b>12</b>	<b>6</b>	<b>24</b>
<b>V. YARIYIL</b>				
<b>Dersin Kodu</b>	<b>Dersin Adı</b>	<b>Teorik</b>	<b>Uygulama</b>	<b>AKTS</b>
TGM3001	PHYTOPATHOLOGY	2	1	5
TGM3003	PRINCIPLES OF PLANT BREEDING	2	1	6
TGM3005	PLANT GENETIC ENGINEERING	2	1	6
	<b>TECHNICAL ELECTIVE COURSE I</b>	2	1	5
	<b>TECHNICAL ELECTIVE COURSE II</b>	2	1	4
	<b>TECHNICAL ELECTIVE COURSE III</b>	2	1	4
	<b>Toplam</b>	<b>12</b>	<b>6</b>	<b>30</b>
<b>VI. YARIYIL</b>				
<b>Dersin Kodu</b>	<b>Dersin Adı</b>	<b>Teorik</b>	<b>Uygulama</b>	<b>AKTS</b>
TGM3002	APPLIED PLANT BREEDING	2	1	4

TGM3004	ENTOMOLOGY	2	1	4
TGM3006	BIOINFORMATICS	2	1	4
TGM3008	INTERNSHIP II	0	0	6
	<b>TECHNICAL ELECTIVE COURSE V-VI (2 Ders Seçilecektir)</b>	2	1	4
	<b>Toplam</b>	<b>8</b>	<b>4</b>	<b>22</b>
	<b>VII. YARIYIL</b>			
<b>Dersin Kodu</b>	<b>Dersin Adı</b>	<b>Teorik</b>	<b>Uygulama</b>	<b>AKTS</b>
TGM4000	GRADUATION THESIS	0	2	5
TGM4001	SEED SCIENCE AND TECHNOLOGY	2	2	6
	<b>TECHNICAL ELECTIVE COURSE VII</b>	2	0	5
	<b>TECHNICAL ELECTIVE COURSE VIII</b>	3	0	5
	<b>TECHNICAL ELECTIVE COURSE IX</b>	3	0	5
	<b>Toplam</b>	<b>10</b>	<b>4</b>	<b>26</b>
	<b>VIII. YARIYIL</b>			
<b>Dersin Kodu</b>	<b>Dersin Adı</b>	<b>Teorik</b>	<b>Uygulama</b>	<b>AKTS</b>
TGM4000	GRADUATION THESIS	0	2	5
TGM4002	SEED PRODUCTION TECHNIQUES	2	2	6
	<b>TECHNICAL ELECTIVE COURSE X</b>	2	2	5
	<b>TECHNICAL ELECTIVE COURSE XI</b>	3	0	5
	<b>TECHNICAL ELECTIVE COURSE XII</b>	3	0	5
	<b>Toplam</b>	<b>10</b>	<b>6</b>	<b>26</b>
	<b>Genel Toplam</b>	<b>62</b>	<b>30</b>	<b>147</b>
	<b>TECHNICAL ELECTIVE COURSE I (1 Ders Seçilecektir)</b>	Teorik	Uygulama	AKTS
TGM3021	TURFGRASS	2	1	5
TGM3025	CLIMATE CHANGE*	2	1	5
TGM3027	MODELLING AND DECISION SUPPORT SYSTEMS	2	1	5
TGM3029	HYDROLOGY	2	1	5
*Ana Dalında HUT3028 CLIMATE CHANGES dersini alan öğrenciler bu dersten muaf tutulacaktır.				
	<b>TECHNICAL ELECTIVE COURSE II-III (2 Ders Seçilecektir)</b>	Teorik	Uygulama	AKTS
TGM3031	CYTOGENETICS	2	1	4
TGM3033	QUANTITATIVE GENETICS	2	1	4
TGM3035	POPULATION GENETICS*	2	1	4
* Ana Dalında HUT3023 POPULATION GENETICS dersini alan öğrenciler bu dersten muaf tutulacaktır.				
	<b>TECHNICAL ELECTIVE COURSE V-VI (2 Ders Seçilecektir)</b>	Teorik	Uygulama	AKTS
TGM3040	MOLECULAR MARKERS*	2	1	4
TGM3042	MOLECULAR TECHNIQUES IN PLANT BREEDING	2	1	4
TGM3044	RECOMBINANT DNA TECHNOLOGY**	2	1	4
* Ana Dalında HUT3024 MOLECULAR MARKERS dersini alan öğrenciler bu dersten muaf tutulacaktır.				

\*\*Ana Dalında HUT3026 RECOMBINANT DNA TECHNOLOGY dersini alan öğrenciler bu dersten muaf tutulacaktır.

	<b>TECHNICAL ELECTIVE COURSE VII (1 Ders Seçilecektir)</b>	Teorik	Uygulama	AKTS
TGM4033	THE HISTORY OF AGRICULTURE AND DEONTOLOGY	2	0	5
TGM4035	BIOSAFETY	2	0	5
TGM4037	LEGISLATION OF BREEDER'S RIGHTS	2	0	5
TGM4039	BIOTECHNOLOGY AND SOCIETY	2	0	5
	<b>TECHNICAL ELECTIVE COURSE VIII-IX (2 Ders Seçilecektir)</b>	Teorik	Uygulama	AKTS
TGM4041	EVOLUTION AND ORIGIN OF PLANT SPECIES	3	0	5
TGM4043	INTRODUCTION TO PROTEOMICS	3	0	5
TGM4045	INTRODUCTION TO GENOMICS	3	0	5
TGM4047	INTRODUCTION TO METABOLOMICS	3	0	5
	<b>TECHNICAL ELECTIVE COURSE X (1 Ders Seçilecektir)</b>	Teorik	Uygulama	AKTS
TGM4050	BREEDING OF CROSS POLLINATED CROPS	2	2	5
TGM4052	BREEDING OF SELF POLLINATED CROPS	2	2	5
TGM4054	BREEDING OF VEGETATIVELY PROPAGATED CROPS	2	2	5
TGM4056	ROOTSTOCK BREEDING	2	2	5
TGM4058	MUTATION BREEDING	2	2	5
	<b>TECHNICAL ELECTIVE COURSE XI-XII (2 Ders Seçilecektir)</b>	Teorik	Uygulama	AKTS
TGM4060	BREEDING FOR ABIOTIC STRESS	3	0	5
TGM4062	BREEDING FOR BIOTIC STRESS	3	0	5
TGM4064	BREEDING FOR NUTRITIONAL QUALITY	3	0	5
TGM4066	HAPLOIDY	3	0	5