

FIRAT UNIVERSITY
FACULTY OF SCIENCES
DEPARTMENT OF MOLECULAR BIOLOGY AND GENETICS DEGREE PROGRAM

SEMESTER I				
Course Code	Course Title	Course Category	T+A+L	ECTS
BİO101	General Biology I	Required Course	3+0+0	6
BİO151	General Biology I Lab	Required Course	0+3+0	4
FİZ113	General Physics I	Required Course	3+0+0	5
KİM111	General Chemistry I	Required Course	3+0+0	5
MBG101	Introduction to molecular biology and genetics	Required Course	3+0+0	6
TRD109	Turkish	Required Course	2+2+0	2
YDİ107	English	Required Course	2+0+0	2
			Total ECTS	30
SEMESTER II				
Course Code	Course Title	Course Category	T+A+L	ECTS
BİO102	General Biology II	Required Course	3+0+0	7
BİO152	General Biology II Lab.	Required Course	2+2+0	4
FİZ114	General Physics II	Required Course	3+0+0	5
KİM112	General Chemistry I	Required Course	3+0+0	5
MAT102	Matematis for Biological	Required Course	3+0+0	5
TRD1100	Turkish	Required Course	2+0+0	2
YDİ108	English	Required Course	2+0+0	2
			Total ECTS	30
SEMESTER III				
Course Code	Course Title	Course Category	T+A+L	ECTS
AİT209	Princ. of Ataturk& Revol. History I	Required Course	2+0+0	2
ENF201	The use of basic information technology	Required Course	3+0+0	4
KİM221	Analytic Chemistry	Required Course	3+0+0	4
MBG201	Cell Biology	Required Course	3+3+0	7
MBG203	Plant and Animal Tissue Culture	Required Course	3+0+0	6
MBG205	Microbiology	Required Course	3+3+0	7
	2 GÜZ	Elective Course	3+0+0	8
			Total ECTS	38
SEMESTER IV				
Course Code	Course Title	Course Category	T+A+L	ECTS
AİT210	Prin. of Ataturk& Revol. History II	Required Course	2+0+0	2
KİM234	Organic Chemistry	Required Course	3+0+0	4
MBG202	Cell Biology	Required Course	3+3+0	8
MBG212	Biotechnology	Required Course	3+0+0	6
MBG214	Biostatistic	Required Course	3+0+0	6
MBG216	Virology	Required Course	3+0+0	4
	2 BAHAR		3+0+0	8
			Total ECTS	38

SEMESTER V				
Course Code	Course Title	Course Category	T+A+L	ECTS
MBG301	Biophysic	Required Course	2+0+0	5
MBG303	Biochemistry I	Required Course	3+3+0	7
MBG305	Genetics I	Required Course	3+3+0	7
MBG307	Bioinformatic	Required Course	3+3+0	6
MBG309	Biological Catalysts	Required Course	3+0+0	5
	3 GÜZ	Elective Course	3+0+0	8
			Total ECTS	38
SEMESTER VI				
Course Code	Course Title	Course Category	T+A+L	ECTS
MBG304	Biochemistry II	Required Course	3+3+0	6
MBG306	Molecular Genetics	Required Course	3+3+0	6
MBG308	Physiology	Required Course	3+0+0	5
MBG310	Molecular Microbiology	Required Course	3+0+0	5
MBG312	Immunology	Required Course	3+0+0	5
MBG314	Experimental Animals	Required Course	2+0+0	3
	3 BAHAR	Elective Course	3+1+0	8
			Total ECTS	38
SEMESTER VII				
Course Code	Course Title	Course Category	T+A+L	ECTS
MBG401	Preteomics and Genomics	Required Course	4+0+0	8
MBG403	Structural Biology	Required Course	3+0+0	6
MBG405	Evolution	Required Course	3+0+0	6
	4 GÜZ 1	Elective Course	1+8+0	10
	4 GÜZ 2	Elective Course	2+0+0	10
			Total ECTS	40
SEMESTER VII				
Course Code	Course Title	Course Category	T+A+L	ECTS
MBG402	Genetic Engineering	Required Course	3+3+0	8
MBG404	System Biology	Required Course	3+0+0	6
MBG406	Immunogenetic	Required Course	2+0+0	4
	4 BAHAR	Elective Course	1+8+0	10
	4 BAHAR 2	Elective Course	2+0+2	12
			Total ECTS	40