

FACULTY OF ENGINEERING AND NATURAL SCIENCES
2016 / 2017 TEACHING PLAN
DEPARTMENT OF MOLECULAR BIOLOGY AND GENETICS

1. Semester (autumn)							
Code	Course Title	C/E	T	P	L	C	ECTS
ENG111	Academic English I	C	2	0	0	2	2
BIO111	General Biology I	C	2	0	0	2	3
GEN111	Introduction to Molecular Biology	C	2	0	0	2	3
GEN113	Scientific Orientation	C	1	0	0	1	1
CHM111	General Chemistry	C	3	0	0	3	4
CHM113	General Chemistry Lab.	C	0	0	2	1	2
MAT111	Calculus I	C	4	0	0	4	5
PHY111	Physics I	C	3	0	0	3	4
COM111	Introduction to Computer for Engineering	C	2	2	0	3	4
TDI 161	Turkish Language and Literature I	C	2	0	0	2	2
TOTAL						23	30

1 st Semester Elective Course List							
Code	Course Title		T	P	L	C	ECTS

2. Semester (spring)							
Code	Course Title	C/E	T	P	L	C	ECTS
ENG112	Academic Writing	C	2	0	0	2	2
BIO112	General Biology II	C	2	0	0	2	3
BIO114	General Biology Lab.	C	0	0	2	1	2
GEN102	Introduction to Cell Biology	C	2	0	0	2	2
CHM112	Organic Chemistry	C	3	0	0	3	4
MAT112	Calculus II	C	4	0	0	4	5
PHY112	Physics II	C	3	0	0	3	4
PHY114	Physics lab	C	0	0	2	1	2
COM112	Computer Programming for Engineering	C	2	2	0	3	4
TDI 162	Turkish Language and Literature II	C	2	0	0	2	2
TOTAL						23	30

2 nd Semester Elective Course List							
Code	Course Title		T	P	L	C	ECTS

3. Semester (autumn)							
Code	Course Title	C/E	T	P	L	C	ECTS
ENG211	Academic English II	C	2	0	0	2	2
GEN211	Cell Biology	C	2	0	0	2	4
GEN213	Cell Biology Lab.	C	0	0	2	1	3
GEN215	Genetics	C	3	0	0	3	5
GEN217	Genetics Lab.	C	0	0	2	1	2
GEN219	Introduction to Human Physiology	C	2	0	0	2	3
GEN221	Histology	C	2	0	0	2	3
ATA151	Atatürk's Prin. and His. of Turkish Revolution I	C	2	0	0	2	2
GENXXX	Technical Elective Course III	E	4	0	0	4	6
TOTAL						19	30

3 rd Semester Elective Course List							
Code	Course Title		T	P	L	C	ECTS
GEN251	Biostatistics		2	0	0	2	3
GEN253	Biophysics		2	0	0	2	3
GEN255	Recent Topics in MBG		2	0	0	2	3

4. Semester (spring)							
Code	Course Title	C/E	T	P	L	C	ECTS
ENG212	Academic Writing II	C	2	0	0	2	2

GEN212	General Microbiology	C	2	0	0	2	4	
GEN214	General Microbiology Lab.	C	0	0	2	1	2	
GEN216	Human Genetics	C	4	0	0	4	6	
GEN218	Human Genetics Lab.	C	0	0	3	2	3	
GEN220	Human Anatomy	C	2	0	0	2	3	
GEN222	Introduction to Bioinformatics	C	2	2	0	3	5	
GEN224	Embryology	C	2	0	0	2	3	
ATA152	Atatürk's Prin. and His. of Turkish Revolution II	C	2	0	0	2	2	
TOTAL							20	30

5th Semester Elective Course List

Kodu	Dersin Adı		T	P	L	C	ECTS

5. Semester (autumn)

Code	Course Title	C/E	T	P	L	C	ECTS	
ENG311	Scientific Presentation I	C	2	0	0	2	2	
GEN311	Molecular Biology I	C	4	0	0	4	5	
GEN313	Molecular Biology I Lab.	C	0	0	3	2	3	
GEN315	Molecular Genetics I	C	4	0	0	4	5	
GEN317	Molecular Genetics I Lab.	C	0	0	3	2	2	
GEN319	Physiology	C	2	0	0	2	3	
CHM311	Biochemistry I	C	3	0	0	3	4	
GENXXX	Technical Elective Course V	E	4	0	0	4	6	
TOTAL							23	30

5th Semester Elective Course List

Code	Course Title		T	P	L	C	ECTS
GEN351	Techniques in Biological Research		2	0	0	2	3
GEN353	Recombinant DNA Technologies		2	0	0	2	3
GEN355	Developmental Biology		2	0	0	2	3
GEN357	Virology		2	0	0	2	3

6. Semester (spring)

Code	Course Title	C/E	T	P	L	C	ECTS	
GEN312	Molecular Biology II	C	4	0	0	4	5	
GEN314	Molecular Biology II Lab.	C	0	0	3	2	3	
GEN316	Molecular Genetics II	C	4	0	0	4	5	
GEN318	Molecular Genetics II Lab.	C	0	0	3	2	3	
CHM312	Biochemistry II	C	3	0	0	3	4	
CHM314	Biochemistry Lab.	C	0	0	3	2	2	
GENXXX	Technical Elective Course VI	E	6	0	0	6	8	
TOTAL							23	30

6th Semester Elective Course List

Code	Course Title		T	P	L	C	ECTS
GEN352	Gene and Cellular Therapy		2	0	0	2	3
GEN354	Immunology		3	0	0	3	4
GEN356	Plant Biotechnology		3	0	0	3	4
GEN358	Genetic Disorders		3	0	0	3	4

7. Semester (autumn)

Code	Course Title	C/E	T	P	L	C	ECTS	
ENG411	Scientific Writing I	C	2	0	0	2	2	
GEN413	Graduation Project I	C	2	0	0	2	4	
GEN415	Internship	C	0	0	0	0	8	
GENXXX	Technical Elective Course VII	E	10	0	0	10	16	
TOTAL							14	30

7th Semester Elective Course List

Code	Course Title		T	P	L	C	ECTS
GEN451	Biotechnology and Genetic Engineering		3	0	0	3	4
GEN453	Medical Genetics		3	0	0	3	4
GEN455	Seminars in Molecular Biology and Genetics I		2	0	0	2	4
GEN457	Laboratory Tutorial I		2	0	0	2	4

8. Semester (spring)

Code	Course Title	C/E	T	P	L	C	ECTS	
ENG412	Scientific Writing II	C	2	0	0	2	2	
GEN414	Graduation Project II	C	2	0	0	2	4	
GENXXX	Technical Elective Course VIII	E	16	0	0	16	24	
TOTAL							20	30

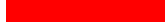
8th Semester Elective Course List

Code	Course Title		T	P	L	C	ECTS
GEN452	Molecular Biology of cancer		3	0	0	3	4
GEN454	Stem Cells and Applications		2	0	0	2	4
GEN456	Seminars in Molecular Biology and Genetics II		3	0	0	3	4
GEN458	Laboratory Tutorial II		2	0	0	2	4
GEN460	Special Techniques in Molecular Genetics		3	0	0	3	4
GEN462	Advances in Stem Cells and Regenerative Medicine		3	0	0	3	4
GEN464	Noroengineering		3	0	0	3	4

UNIVERCITY ELECTIVE COURSE LIST

Code	Course Title		T	P	L	C	ECTS
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 University Elective Courses

 Department Elective Courses

 Department compulsory courses

ATA101 PRINC.OF ATATÜRK AND HISTORY OF TURKISH REVOLUTION I 2 AKTS
ATA102 PRINC.OF ATATÜRK AND HISTORY OF TURKISH REVOLUTION II 2 AKTS
TRD101 TURKISH LANGUAGE I 2 AKTS
TRD102 TURKISH LANGUAGE II 2 AKTS

2014-2015

ENG101 ENGLISH I 19 AKTS (GÜZ)
ENG102 ENGLISH II 19 AKTS (BAHAR)

2015-2016

ENG001 ENGLISH I 16 AKTS (GÜZ)
ENG003 ENGLISH I 12 AKTS (GÜZ)
ENG005 ENGLISH I 10 AKTS (GÜZ)
ENG007 ENGLISH I 3 AKTS (GÜZ)
ING152 ENGLISH II 3 AKTS (BAHAR)
ENG004 ENGLISH II 12 AKTS (BAHAR)
ENG006 ENGLISH II 10 AKTS (BAHAR)
ENG008 ENGLISH II 16 AKTS (BAHAR)