



**YEAR FOUR**

7th Term							
Code	Course Name	T	P	L	C	ECTS	Prerequisite
MBG405	Immunology	2	0	0	2	3	
MBG493	Graduation Project*	0	0	6	3	5	
MBGXXX	Departmental Elective IV	3	0	0	3	5	
XXXXXX	Field Elective II	3	0	0	3	5	
XXXXXX	Field Elective III	3	0	0	3	5	
XXXXXX	Social Elective III	3	0	0	3	5	
OHS401	Occupational Health and Safety I	2	0	0	2	2	
<b>Total Credits</b>		<b>16</b>	<b>0</b>	<b>6</b>	<b>19</b>	<b>30</b>	

8th Term							
Code	Course Name	T	P	L	C	ECTS	Prerequisite
MBG408	Bioethics	2	0	0	2	3	
MBG494	Graduation Thesis*	0	0	8	4	10	MBG 493
MBGXXX	Departmental Elective V	3	0	0	3	5	
MBGXXX	Departmental Elective VI	3	0	0	3	5	
XXXXXX	Field Elective IV	3	0	0	3	5	
OHS402	Occupational Health and Safety II	2	0	0	2	2	
<b>Total Credits</b>		<b>13</b>	<b>0</b>	<b>8</b>	<b>17</b>	<b>30</b>	

<b>2022-2023</b>	<b>Total Course Credits for Graduation</b>	151
	<b>Total Course ECTS for Graduation</b>	243
	<b>Total Elective Courses ECTS</b>	65
	<b>Elective Course Ratio</b>	26%

\* These courses are under the Applied Course status.

\*\* These courses are under the Internship Course status.

DEPARTMENTAL ELECTIVES						
Code	Course Name	T	P	L	C	ECTS
<b>Field : Biotechnology</b>						
Departmental Electives With Project (3rd Year & 4th Year)						
MBG318	Microbial Metabolism	3	0	0	3	5
MBG321	Plant Genetics and Biotechnology	3	0	0	3	5
MBG441	Advanced Methods in Molecular Biology	3	0	0	3	5
MBG427	Biochemical Ecology	3	0	0	3	5
Departmental Electives (4th Year)						
MBG415	Industrial Microbiology	3	0	0	3	5
MBG440	Forensic Biology	3	0	0	3	5
<b>Field : Cell Biology</b>						
Departmental Electives With Project (3rd Year & 4th Year)						
MBG313	Cancer Molecular Biology	3	0	0	3	5
MBG341	Introduction to Toxicology	3	0	0	3	5
MBG343	Genetic Disorders	3	0	0	3	5
MBG342	Stem Cell Technologies	3	0	0	3	5
Departmental Electives (4th Year)						
MBG435	Neurochemistry	3	0	0	3	5
MBG442	Nutritional Biochemistry	3	0	0	3	5
<b>Field : Genetics</b>						
Departmental Electives With Project (3rd Year & 4th Year)						
MBG316	Genes, Environment and Behavior	3	0	0	3	5
MBG319	Functional Genomics and Transcriptomics	3	0	0	3	5
MBG330	Epigenetics	3	0	0	3	5
MBG333	Molecular Evolution	3	0	0	3	5
MBG343	Genetic Disorders	3	0	0	3	5
Departmental Electives (4th Year)						
MBG418	Pharmacogenetics	3	0	0	3	5
MBG419	Sports and Performance Genetics	3	0	0	3	5
<b>Field : Neurobiology</b>						
Departmental Electives With Project (3rd Year & 4th Year)						
MBG307	Neurobiology	3	0	0	3	5
MBG317	Memory	3	0	0	3	5
MBG323	Special Topics in Neuroscience	3	0	0	3	5
MBG326	Neurodevelopment	3	0	0	3	5
Departmental Electives (4th Year)						
MBG411	Animal Behavior	3	0	0	3	5
MBG417	Neurophysics	3	0	0	3	5
MBG435	Neurochemistry	3	0	0	3	5
<b>Departmental Elective Courses (2nd Year)</b>						
Code	Course Name	T	P	L	C	ECTS
MBG205	Plant Biology	3	0	0	3	5
MBG340	Human Anatomy	3	0	0	3	5
MBG203	Biostatistics	3	0	0	3	5
MBG213	Histology and Embryology	3	0	0	3	5

**Elective Courses Pool**

Elective Foreign Languages							
Code	Course Name	T	P	L	C	ECTS	Prerequisite
ESP123	Spanish I	3	0	0	3	5	
ESP124	Spanish II	3	0	0	3	5	ESP123
CHN123	Chinese I	3	0	0	3	5	
CHN124	Chinese II	3	0	0	3	5	CHN123
ARB123	Arabic I	3	0	0	3	5	
ARB124	Arabic II	3	0	0	3	5	ARB123
RSN123	Russian I	3	0	0	3	5	
RSN124	Russian II	3	0	0	3	5	RSN123

**Field Elective Courses**

For Field Elective courses, any departmental elective course (in English) having appropriate credits from other departments of Faculty of Engineering and Natural Sciences can be elected.

**Social Elective Courses**

For Social Elective courses, any course (in English) having appropriate credits from other faculties can be elected.

**Social Elective Courses (Foreign Languages)**

Code	Course Name	T	P	L	C	ECTS	Prerequisite
ARB123	Arabic I	3	0	0	3	5	
ARB124	Arabic II	3	0	0	3	5	ARB123
CHN123	Chinese I	3	0	0	3	5	
CHN124	Chinese II	3	0	0	3	5	CHN123
ESP123	Spanish I	3	0	0	3	5	
ESP124	Spanish II	3	0	0	3	5	ESP123
FRN123	French I	3	0	0	3	5	
FRN124	French II	3	0	0	3	5	FRN123
GER123	German I	3	0	0	3	5	
GER124	German II	3	0	0	3	5	GER123
RSN123	Russian I	3	0	0	3	5	
RSN124	Russian II	3	0	0	3	5	RSN123