TR

USKUDAR UNIVERSITY

INSTITUTE OF HEALTH SCIENCES

MOLECULAR NEUROSCIENCE DOCTORAL PROGRAM

1st YEAR

FALL SEMESTER (I. SEMESTER)

CODE	COURSE NAME	TYPE	THEORY	APPLICATION	CREDIT	ECTS
MNB601	Molecular Cell Biology	Z	3	0	3	8
MNB602	Neuroanatomy	Z	3	0	3	8
MNBXXX	Elective	S	3	0	3	7
MNBXXX	Elective	S	3	0	3	7
TOTAL			12	0	12	30

1st YEAR

SPRING SEMESTER (II. SEMESTER)

CODE	COURSE NAME	TYPE	THEORY	APPLICATION	CREDIT	ECTS
MNB604	Neurodegeneration and Genetics	Z	3	0	3	8
MNB605	Advanced Bioinformatics	Z	3	0	3	8
MNBXXX	Elective	S	3	0	3	7
MNBXXX	Elective	S	3	0	3	7
TOTAL			12	0	12	30

2ND YEAR

FALL SEMESTER (3RD SEMESTER)

CODE	COURSE NAME	TYPE	THEORY	APPLICATION	CREDIT	ECTS
MNB607	Neurodevelopment	Z	3	0	3	8
MNB608	Neuropharmacology and Neuroendocrinology	Z	3	0	3	8
MNBXXX	Elective	S	3	0	3	7
MNBXXX	Elective	S	3	0	3	7
TOTAL			12	0	12	30

2ND YEAR

SPRING SEMESTER (IV. SEMESTER)

CODE	COURSE NAME	TYPE	THEORY	APPLICATION	CREDIT	ECTS
MNB610	Ethics, Methods and Models in Neuroscience	Z	3	0	3	8
MNB636	Epigenetics	Z	3	0	3	8
MNB613	Seminar	Z	1	0	0	1
MNBXXX	Elective	S	3	0	3	7
MNBXXX	Elective	S	3	0	3	7
TOTAL			13	0	12	31

3rd YEAR						
FALL SEMESTER (V. SEMESTER)						
CODE	COURSE NAME	TYPE	THEORY	APPLICATION	CREDIT	ECTS
MNB614	Specialization Field Course I	Z	3	0	3	10
MNB615	Thesis Study I	Z	0	0	0	20
TOTAL			**3**	**0**	**3**	**30**

3rd YEAR						
SPRING SEMESTER (VI. SEMESTER)						
CODE	COURSE NAME	TYPE	THEORY	APPLICATION	CREDIT	ECTS
MNB616	Specialization Series II	Z	3	0	3	10
MNB617	Thesis Study II	Z	0	0	0	20
TOTAL			**3**	**0**	**3**	**30**

4th YEAR						
FALL SEMESTER (VII. SEMESTER)						
CODE	COURSE NAME	TYPE	THEORY	APPLICATION	CREDIT	ECTS
MNB618	Specialization Field Course III	Z	3	0	3	10
MNB619	Thesis Study III	Z	0	0	0	20
TOTAL			**3**	**0**	**3**	**30**

4th YEAR						
SPRING SEMESTER (VIII. SEMESTER)						
CODE	COURSE NAME	TYPE	THEORY	APPLICATION	CREDIT	ECTS
MNB620	Specialization Field Course IV	Z	3	0	3	10
MNB621	Thesis Study IV	Z	0	0	0	20
TOTAL			**3**	**0**	**3**	**30**

ELECTIVE COURSES						
MNB603	Recent Developments in Molecular Neuroscience I	S	3	0	3	7
MNB606	Recent Developments in Molecular Neuroscience II	S	3	0	3	7
MNB611	Neuroimmunology	S	3	0	3	7
MNB612	Advanced Biostatistics	S	3	0	3	7
MNB622	Cognitive Neuroscience	S	3	0	3	7
MNB623	Systems Neuroscience	S	3	0	3	7

MNB624	Behavioral Neuroscience	S	3	0	3	7
MNB625	Theoretical and Computational Neuroscience	S	3	0	3	7
MNB626	Comparative Anatomy of the Nervous System	S	3	0	3	7
MNB627	Neuropsychology	S	3	0	3	7
MNB628	Experimental animal models in neuropsychiatric and neurodegenerative disease research	S	3	0	3	7
MNB629	Neurochemistry	S	3	0	3	7
MNB630	Sleep physiology	S	3	0	3	7
MNB631	Memory	S	3	0	3	7
MNB632	Schizophrenia and Mood Disorders	S	3	0	3	7
MNB633	Molecular Genetics Applied in the Clinic The methods	S	3	0	3	7
MNB634	Epilepsy and Animal Models	S	3	0	3	7
MNB635	Stereotaxy Laboratory	S	0	3	0	7
MNB637	Theoretical Neurobiophysics	S	3	0	3	7
MNB638	Clinical Neurogenetics	S	3	0	3	7
MNB639	Systemic Neurophysiology	s	3	0	3	7

Total Credits Required for Graduation

(T) Theoretical Hours	60
(U) Application	3
(K) Local Credit	60
(ECTS) ECTS Credit	241
(S) Elective Course ECTS Credit	56