

Psychobiology MSc at Semmelweis University – Curriculum

Course title	Credits	Total contact hours / semester	Lecture hours / semester	Practical / Seminar hours / semester	Form of assessment
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1. semester

The biological bases of psychology I.	3	28	28	0	Examination
Research methods in psychobiology	2	28	28	0	Examination
Neuroanatomy and neurophysiology I.	3	28	28	0	Examination
Evolution of the brain and mental functions	2	28	28	0	Examination
Laboratory techniques in psychophysiology and cognitive neuroscience	2	28	28	0	Examination
Entry level computer-programming for bio-medical students	3	28	0	28	Practical mark
Advanced statistics and data analysis in behavioural and biomedical sciences I.	3	42	14	28	Examination and Practical mark
Laboratory practice: Psychiatric genetics, Molecular techniques, EEG, wearables, MRI, fNIRS, Experimental cognitive psychology I.	4	56	0	56	Practical mark
Total (1. semester)	22	266	154	112	
Elective	2	28	28	0	Examination
Compulsory elective	6	84	84	0	Examination

2. semester

The biological bases of psychology II.	3	28	28	0	Examination
Neuroanatomy and neurophysiology II.	3	28	28	0	Examination

Developmental cognitive neuroscience	2	28	28	0	Examination
Behavioural genetics	2	28	28	0	Examination
Introduction to neuropsychiatry	3	28	28	0	Examination
Seminar in current topics in psychobiology	1	14	0	14	Coursework report
Advanced statistics and data analysis in behavioural and biomedical sciences II.	3	42	14	28	Examination and Practical mark
Biomathematics	3	42	28	14	Examination and Practical mark
Laboratory practice: Psychiatric genetics, Molecular techniques, EEG, wearables, MRI, fNIRS, Experimental cognitive psychology II.	4	56	0	56	Practical mark
Total (2. semester)	24	294	182	112	
Elective	2	28	28	0	Examination
Compulsory elective	4	56	56	0	Examination

3. semester

Biological bases of psychopathology	3	28	28	0	Examination
Psychopharmacology	4	28	28	0	Examination
Ethics and professional issues in psychobiology	3	28	28	0	Examination
Seminar in current topics in cognitive neuroscience	1	14	0	14	Coursework report
Grant writing and scientific communication	3	28	0	28	Practical mark

Laboratory practice: Psychiatric genetics, Molecular techniques, EEG, wearables, MRI, fNIRS, Experimental cognitive psychology III.	4	56	0	56	Practical mark
Final year thesis preparation I.	7	28	0	28	Coursework report
Total (3. semester)	25	210	84	126	
Elective	2	28	28	0	Examination
Compulsory elective	3	42	42	0	Examination

4. semester

Research seminar	10	28	0	28	Practical mark
Final year thesis preparation II.	20	28	0	28	Coursework report
Total (4. semester)	30	56	0	56	
<i>Elective courses</i>					
AI for biomedical data analysis	2	28	28	0	Examination
offered by the university	2	28	28	0	Examination
offered by the university	2	28	28	0	Examination
Elective courses total number of hours	6	84	84	0	
<i>Compulsory elective courses</i>					
Methodology for the electrophysiological analysis of sleep-wake states	2	28	28	0	Examination
Sleep and chronobiology	2	28	28	0	Examination
Basics of behavioural sciences	2	28	28	0	Examination
Methodology of health sciences	2	28	28	0	Examination
Human intelligence	2	28	28	0	Examination

Hormones and behaviour	2	28	28	0	Examination
Literature searching, efficient publishing strategy	3	45	0	45	Coursework report
Cognitive neuroscience of social cognition	2	28	28	0	Examination
Theory and Practice of Central Nervous System MRI Analysis	2	28	28	0	Examination
Compulsory elective courses, total number of hours	13	182	182	0	