

## 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

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

### 2. semester

<b>The biological bases of psychology II.</b>	3	28	28	0	Examination
<b>Neuroanatomy and neurophysiology II.</b>	3	28	28	0	Examination

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

### 3. semester

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

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

#### ***4. semester***

<b>Research seminar</b>	10	28	0	28	Practical mark
<b>Final year thesis preparation II.</b>	20	28	0	28	Coursework report
Total (4. semester)	<b>30</b>	<b>56</b>	<b>0</b>	<b>56</b>	

#### ***Elective courses***

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	<b>6</b>	<b>84</b>	<b>84</b>	<b>0</b>	

#### ***Compulsory elective courses***

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	<b>13</b>	<b>182</b>	<b>182</b>	<b>0</b>	