



LUDWIG-
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MÜNCHEN



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**Examination and Study Regulations of the Ludwig
Maximilians University of Munich for its Master's Pro-
gramme in Neurosciences (2018)**

Dated 29 November 2019

On the basis of Art. 13 (1) sentence 2 in conjunction with Art. 58 (1) sentence 1 and Art. 61 (2) sentence 1 of the Bavarian Higher Education Act, the Ludwig Maximilian University of Munich hereby enacts the following statutes:

Table of Contents

I. General

Section 1	Subject of the study programme and purpose of the Master's examination
Section 2	Academic degree
Section 3	Admission requirements
Section 4	Central Student Advisory Service and Course Guidance Service

II. Duration, structure and sequence of studies

Section 5	Start of study, standard period of study, semester hours per week
Section 6	ECTS points
Section 7	Modularisation and modules
Section 8	Courses

III. Master's examination

1. Module examinations and partial module examinations

Section 9	Module examinations and partial module examinations as components of the Master's examination
Section 10	Assessment of module examinations and partial module examinations
Section 11	Passing, failing and repeating module examinations and partial module examinations
Section 12	Account statements

2. Special module examinations and partial module examinations

Section 13	(not documented)
Section 14	Master's thesis
Section 15	Thesis defence

3. Forms of examination

Section 16	Oral module examinations and partial module examinations
Section 17	Written examinations and other proctored examinations
Section 18	Other forms of module examinations and partial module examinations

4. Result of the Master's examination

Section 19	Passing and failing the Master's examination
Section 20	Notification and certificate in the event of failing
Section 21	Formation of the final mark
Section 22	Master's Document, Master's Diploma, Master's Report Card, Master's Certificate and Diploma Supplement

IV. Examination bodies and examination administration

- Section 23 Examination Board and Examination Office
- Section 24 Examiners and assessors
- Section 25 Programme coordinator, examiners' duties
- Section 26 Duties of students to cooperate, confirmation of notifications

V. Conduct of examinations

- Section 27 Crediting of competences
- Section 28 Enrolment in courses and registration for module examinations and partial module examinations; study guidance measures
- Section 29 Default, withdrawal
- Section 30 Deception, breach of order
- Section 31 Protective provisions under the Maternity Protection Act, the Federal Parental Allowance and Parental Leave Act and the Nursing Care Leave Act
- Section 32 Compensation for disadvantages
- Section 33 Deficiencies in the examination procedure
- Section 34 Inspection of examination files, retention periods

VI. Final provisions

- Section 35 Entry into force and transitional provisions

Appendix 2: Modules, courses, module examinations / partial module examinations

I. General

Section 1

Subject of the study programme and purpose of the Master's examination

(1) ¹The aim of the Master's programme in Neurosciences is to provide an intensive, research-oriented education in order to deepen the knowledge, skills and abilities acquired in the undergraduate programme and to expand them in the field of neuroscience. ²Based on a sound foundation of molecular and cellular principles of cell and neurobiology, students will develop a deeper understanding of neuron-neuron interaction, the dynamics of neuron-glia interaction, and the rules of information transmission in simple and complex circuits. ³This foundation will enable students to critically engage with issues of neurocognition, neurophilosophy and philosophy of science in the further course of their studies. ⁴The teaching of subject knowledge includes the theoretical, methodological and experimental foundations for scientific work and promotes the ability for application, research and teaching-related fields of activity

(2) ¹The Master's examination (Section 9 (1)), which must be taken during the course of study, constitutes the professionally qualifying degree of the Master's programme in Neurosciences. ²The Master's examination determines whether the student has an overview of and can critically assess the interrelationships of the subject, has the ability to apply its scientific methods and findings, and has acquired the thorough specialist knowledge necessary for a transition into professional practice.

(3) ¹The courses of this Master's degree programme also teach key qualifications. ²Key qualifications are in particular

1. ability to research, evaluate, condense and structure knowledge and information,
2. overview knowledge of relevant knowledge areas of the respective subject,
3. networked thinking,
4. organizational and transfer skills,
5. information and media literacy,
6. learning and presentation skills,
7. mediation skills,
8. teamwork and communication skills, including from a gender perspective,
9. language skills and
10. computer skills and abilities.

(4) The courses and their associated module examinations and partial module examinations are held exclusively in English.

Section 2 Academic degree

The Faculty of Biology awards the academic degree "Master of Science" (abbreviated: "M.Sc.").

Section 3 Admission requirements

(1) ¹The prerequisite for enrolment in this Master's degree programme is proof of a professionally qualifying university degree of at least 180 ECTS credits or an equivalent degree from Germany or abroad in biology, psychology, medicine, physics or a related subject. ²Further admission requirements may be specified in a separate statute of the Ludwig Maximilian University of Munich.

(2) The existence of the admission requirements as defined in para. 1 shall be decided within the framework of the matriculation procedure in consultation with the responsible Examination Board.

(3) If the prerequisites of para. 1 are not met, participation in module examinations and partial module examinations shall be deemed not to have taken place, unless later proof of the prerequisites of para. 1 has been expressly permitted and is provided in due time.

Section 4 Central Student Advisory Service and Course Guidance Service

(1) ¹The Central Student Advisory Service at the Ludwig Maximilian University of Munich provides information and advice, especially in the case of interdisciplinary problems. ²Students should make use of this service in particular prior to commencing their studies, in the event of a planned change of degree programme and in all matters relating to admission restrictions.

(2) ¹The faculty is responsible for the Course Guidance Service, which is carried out by the responsible academic advisor. ²This counselling shall extend in particular to questions relating to the planning of studies in terms of content and time. ³Information on questions concerning examinations or credits for study and examination achievements can be obtained in particular from the members of the Examination Board and/or the Examination Office.

II. Duration, structure and sequence of studies

Section 5 Start of study, standard period of study, semester hours per week

(1) Studies in this Master's programme can only be commenced in the winter semester.

(2) ¹The standard period of study, including the time required to complete the Master's thesis, is four semesters. ²A total of no more than 85 semester hours per week (SWS) are required.

Section 6 ECTS points

(1) ¹In the context of this Master's programme, a total of 120 points are to be acquired in accordance with the European Credit Transfer System (ECTS points). ²ECTS points are a quantitative measure of the student's total workload. ³They shall include both the direct teaching in all courses and forms of teaching specified in Section 8 (1) sentence 2 and the time spent preparing for and following up the subject matter (attendance and self-study), the time spent preparing for examinations and the examinations taken. ⁴One ECTS point corresponds to a workload of 30 hours, so that the total workload within the standard period of study (Section 5 (2) sentence 1) is 900 hours per semester and corresponds to 30 ECTS points.

(2) ¹In each semester, the student shall acquire the ECTS points resulting from Appendix 2/column 18 in each semester. ²ECTS points are only awarded for modules that have been passed (Section 10 (4) sentence 2).

Section 7 Modularisation and modules

(1) ¹The course of study in this Master's degree programme has a modular structure and is regulated in a binding manner in Appendix 2. ²Blank cells in the tables in Appendix 2 have no regulatory content.

(2) ¹The course of study in this Master's degree programme comprises compulsory and elective modules. ²Compulsory modules must be completed without exception; the student can choose from elective modules.

(3) A module is a combination of thematically and chronologically coordinated courses and a module examination or one or more partial module examinations, which are assessed according to the time required for successful participation with a number of ECTS credits determined in accordance with Section 6 (1).

(4) ¹A module shall, as a rule, extend over one semester, at most over two semesters, in accordance with the provisions of Appendix 2. ²The scope of a module is a multiple of three ECTS credits in accordance with Appendix 2/column 18.

(5) Participation in modules depends on the fulfilment of admission requirements; further details are given in Appendix 2/column 2.

(6) The following are derived from Appendix 2

1. the modules,
2. their assignment to one or more semesters,
3. their admission requirements (Appendix 2/column 2),
4. the type of module (compulsory or compulsory elective module – Appendix 2/column 3), in the case of compulsory elective modules an indication of the selection modalities as well,
5. the abbreviated names of the modules (Appendix 2/column 4),
6. the names of the modules (Appendix 2/column 5),

7. the frequency of the modules (each semester or annually) (Appendix 2/column 6),
8. the ECTS points to be awarded after passing the module (Appendix 2/column 18).

Section 8 Courses

(1) ¹The objectives and contents of the course of study as well as key qualifications (Section 1 (3)) shall be taught in the courses and forms of instruction provided for in Appendix 2/columns 8 and 9. ²In Appendix 2/columns 8 and 9, the following courses and forms of instruction may be prescribed in particular:

1. Lectures,
2. Exercises,
3. Seminars,
4. Colloquia,
5. Internships,
6. Tutorials,
7. Workshops.

(2) All courses are assigned to modules.

(3) ¹The course of study in this Master's degree programme comprises compulsory courses only. ²These must be completed without exception.

(4) Participation in courses depends on the fulfilment of admission requirements; further details are given in Appendix 2/column 7.

(5) The following are derived from Appendix 2

1. the courses,
2. the type of courses (Appendix 2/column 3),
3. the frequency of the courses (each semester or yearly) (Appendix 2/column 6),
4. their assignment to a module,
5. their assignment to one or more semesters,
6. their admission requirements (Appendix 2/column 7),
7. the abbreviated names of the courses (Appendix 2/column 4),
8. the names of the courses (Appendix 2/column 8),
9. the teaching forms of the courses (Appendix 2/column 9),
10. the semester hours per week (Appendix 2/column 10),
11. the ECTS credits mathematically assigned to the courses (Appendix 2/column 18).

III. Master's examination

1. Module examinations and partial module examinations

Section 9

Module examinations and partial module examinations as components of the Master's examination

(1) The Master's examination consists of module examinations and partial module examinations.

(2) ¹Each module concludes with a module examination or a certain number of partial module examinations in accordance with Appendix 2. ²If a module examination or partial module examination is passed, the ECTS points assigned to it are recorded in the student's personal account (Section 12). ³If a module examination is set by several course instructors without it being a partial module examination, the regulations for partial module examinations shall apply accordingly.

(3) ¹Participation in module examinations and/or partial module examinations depends on the fulfilment of admission requirements. ²Further details are given in Appendix 2/column 11.

(4) In the module examination, in the partial module examination or in the sum of the partial module examinations of the respective module, the student shall prove that he or she has acquired the knowledge and skills which are taught in the course(s) assigned to the module according to Appendix 2/columns 7 to 10.

(5) ¹The following are derived from Appendix 2

1. the module examinations and partial module examinations,
2. their assignment to a module and, if applicable, to a course,
3. their assignment to a subject semester (scheduled date – Appendix 2/column 1),
4. their eligibility requirements (Appendix 2/column 11),
5. the type of examination (Appendix 2/column 12),
6. the form of examination (Appendix 2/column 13),
7. the duration or scope of the examination (Appendix 2/column 14),
8. the type of assessment (marks or "passed"/ "failed" – Appendix 2/column 15),
9. the weighting of marks (Appendix 2/column 16),
10. repeatability (Appendix 2/column 17).

²If several forms of examination with an assigned examination duration are specified in Appendix 2/columns 13 and 14, the course instructor shall determine which of the specified variants is to be selected and shall announce this at the beginning of the course.

Section 10

Assessment of module examinations and partial module examinations

(1) Module examinations and partial module examinations are assessed or marked as “passed” or “failed”.

(2) ¹The mark for a module examination or for a partial module examination is determined by the respective examiner. ²The following marks are to be used for the assessment of module examinations and module part examinations:

Mark 1	= “very good”	= excellent performance;
Mark 2	= “good”	= performance that is significantly above the requirements;
Mark 3	= “satisfactory”	= performance that meets average requirements;
Mark 4	= “sufficient”	= performance that still meets the requirements despite its shortcomings;
Mark 5	= “insufficient”	= performance that no longer meets the requirements due to significant defects.

³For the differentiated assessment of the module examinations and partial module examinations, the marks can be increased or decreased by 0.3 to intermediate values; the marks 0.7; 4.3; 4.7 and 5.3 are excluded. ⁴If a module examination or partial module examination is marked by several examiners or if a module examination or partial module examination consists of several partial performances (Section 11 (1) sentence 3), the overall mark of the module examination or partial module examination is calculated from the arithmetic mean of the individual marks. ⁵Only the first two digits after the decimal point are taken into account. ⁶The mark designation according to sentence 4 is:

with an average up to and including 1.50	= “very good”;
with an average of 1.51 up to and including 2.50	= “good”;
with an average of 2.51 up to and including 3.50	= “satisfactory”;
with an average of 3.51 up to and including 4.00	= “sufficient”.

(3) ¹The module mark

1. results in the case of a module examination or in the case of only one graded partial module examination (Section 9 (2)) from para. 2 and
2. is calculated in the case of partial module examinations (Section 9 (2)) from the arithmetic mean of the individual marks in the partial module examinations belonging to the respective module, marked according to Appendix 2/column 15 and weighted according to Appendix 2/column 16.

²Insofar as no other specification is made in Appendix 2/column 16, the partial module examinations are included in the arithmetic mean to be formed according to sentence 1 no. 2 with the ECTS points assigned to them in Appendix 2/column 18. ³Para. 2 sentences 5 and 6 shall apply accordingly.

(4) ¹If partial module examinations are successfully completed for more courses within a module than are required to pass the module, only the ECTS points required to pass the module are taken into account when calculating the module mark. ²The

passing of a module requires the passing of the module examination assigned to the compulsory courses or all partial module examinations in a manner provided for in Appendix 2.

Section 11

Passing, failing and repeating module examinations and partial module examinations

(1) ¹A module examination or partial module examination is passed if it is marked

1. with “passed” or
2. with at least “sufficient” (4.0)

. ²Module examinations and partial module examinations should, subject to Section 31, be passed at the latest by the end of the semester specified in Appendix 2/column 1 (standard deadline); details in brackets in Appendix 2/column 1 are only recommendations. ³Module examinations and partial module examinations are passed if, subject to Section 31, all required partial performances have been successfully completed at the latest by the end of the semester following the expiry of the regulation term.

(2) ¹If Appendix 2/column 1 contains an indication in brackets for a module examination or partial module examination, the end of the fourth semester shall be deemed to be the standard date. ²This module examination or partial module examination is passed if, subject to Section 31, it has been successfully completed by the end of the fifth semester at the latest.

(3) Module examinations and partial module examinations are also passed if the requirements of paras. 1 and 2 are not fulfilled within the period of time stipulated therein, but are fulfilled within the framework of para. 6 or a retake permitted according to these Examination and Study Regulations.

(4) ¹Module examinations or partial module examinations are not passed if they have been taken in whole or in part but not passed. ²Module examinations or partial module examinations are definitively failed if they have been taken in whole or in part but not passed and there is no longer any possibility of repeating them.

(5) ¹Module examinations or partial module examinations are, subject to Section 31,

1. considered to have been taken and not passed if they have not been successfully taken at the end of the semester following the end of the regular semester for reasons for which the student is responsible, and
2. considered to have been definitively failed if, for reasons for which the student is responsible, they have not been successfully completed by the end of the third semester following the end of the regular semester.

²If Appendix 2/column 1 contains an indication in brackets for a module examination or partial module examination, this module examination or partial module examination shall, subject to Section 31, be considered

1. as having been taken and not passed if it has not been successfully taken at the end of the fifth semester for reasons for which the student is responsible, and
2. as definitively not passed if, for reasons for which the student is responsible, it has not been successfully completed by the end of the seventh semester.

³Reasons which are intended to justify exceeding one of the deadlines in sentences 1 and or 2 must be asserted in writing to the Examination Office immediately after their occurrence and must be substantiated. ⁴In the event of illness, a medical certificate must be submitted; the submission of a certificate of incapacity for work is not sufficient. ⁵The Examination Office may, in individual cases or in general, require the submission of a medical certificate from an official doctor or a certificate from a doctor appointed by the Examination Office. ⁶If the reason is accepted, a new date shall be set. ⁷In the case of divisible module examinations and partial module examinations, existing examination results are to be credited.

(6) ¹A module examination or partial module examination that has not been passed for the first time shall be deemed not to have been passed if it has been passed in full after uninterrupted study of the subject at the latest at the end of the semester specified in para. 1 sentence 2 as the standard deadline or of the semester specified in para. 2 sentence 1 as the standard deadline (free examination attempt). ²Terms of study recognised in accordance with these examination and study regulations in the case of a change of university, course of study or subject shall be credited to the subject studies. ³Semesters in which students were on leave of absence (Art. 48 (2) sentence 1 BayHSchG) are not taken into account, nor are periods which fulfil the requirements of Section 31, or in which the respective student was unable to take part in a module examination or partial module examination for reasons for which he or she is not otherwise responsible. ⁴Para. 5 sentences 3 to 5 shall apply accordingly. ⁵Partial performances passed within the framework of a free examination attempt will be credited. ⁶Sentences 1 to 5 do not apply to the Master's thesis (Section 14) and the thesis defence (Section 15).

(7) A failed module examination or partial module examination, with the exception of the Master's thesis (Section 14) and the thesis defence (Section 15), may be repeated as often as desired, subject to a deviating regulation in Appendix 2/column 17 and notwithstanding para. 6.

(8) Students who have failed a module examination or partial module examination must be able to repeat the course or courses assigned to this module examination or partial module examination before their last attempt to pass this module examination or partial module examination.

(9) A retake of a module examination or partial module examination that has already been passed, with the exception of the Master's thesis (Section 14) and the thesis defence (Section 15), in order to improve the mark is only possible once in the next possible regular term, whereby the better result in each case counts.

(10) The assessment obtained in a module examination or partial module examination and the assigned ECTS credits may only be used once in total in this Master's degree programme within the meaning of Section 6 (1) sentence 1.

Section 12 Account statements

¹For students enrolled in this Master's degree programme, a personal account is set up at the Examination Office in which

1. all passed module examinations and partial module examinations (Section 11 (1 to 3)), each with the remark "passed" or with the awarded mark and with the assigned ECTS credits as well as
2. all failed module examinations and partial module examinations (Section 11 (4 & 5)) are recorded with the note "failed" or with the mark awarded.

²At the beginning of the respective next semester, the students shall receive a personal account statement within the meaning of sentence 1 as a notice with instructions on how to appeal.

2. Special module examinations and partial module examinations

Section 13 (not documented)

Section 14 Master's thesis

(1) The Master's thesis is a partial module examination.

(2) The Master's thesis should demonstrate that the student is able to independently work on a problem from his or her subject according to scientific methods within a given period of time (para. 7).

(3) ¹The Master's thesis is supervised by a person appointed as the first examiner in accordance with Section 24 (3) no. 3 (supervisor). ²If the Master's thesis is to be carried out at an institution outside the Ludwig Maximilian University of Munich, this requires the consent of the chairperson of the Examination Board.

(4) ¹The procedure for the assignment of topics and the verification of admission requirements shall be announced by the Examination Office in the first two weeks after the beginning of the penultimate semester for the students; an announcement by the Examination Office exclusively on the internet shall be sufficient. ²The topic and date of issue of the Master's thesis shall be recorded in the Examination Office. ³The student may express topic preferences; the supervisor is not bound by these. ⁴The topic can only be returned once and only within two weeks of issue. ⁵The order in accordance with section 28 (2) sentence 3 shall be deemed to have been made; section 28 (3) shall apply mutatis mutandis.

(5) ¹The supervisor is obliged to

1. assign the topic of the Master's thesis in time and

2. assess the Master's thesis in such a timely manner

that the Examination Office receives this assessment at the latest two weeks before the end of the student's last semester. ²Sentence 1 no. 2 shall apply mutatis mutandis to a second examiner.

(6) ¹Students to whom a topic for a Master's thesis has not been assigned in good time within the meaning of para. 4 sentence 1 must report immediately to the chairperson of the Examination Board. ²The chairperson of the Examination Board is obliged to ensure that a topic for a Master's thesis is assigned to each student.

(7) ¹The processing time for the Master's thesis is 24 weeks. ²26 ECTS credits are awarded for the Master's thesis.

(8) ¹Three copies of the Master's thesis must be submitted to the Examination Office by the deadline; the date of submission must be recorded. ²When handing in the work, the candidate must certify in writing that he/she has written the work independently and has not used any sources or aids other than those specified. ³The Examination Board may generally or in individual cases require that the Master's thesis is also submitted in electronic form and specify technical requirements for this.

(9) ¹The Master's thesis is to be assessed by the supervisor of the Master's thesis (para. 3 sentence 1). ²Master's theses which are to be assessed as "failed" must be assessed by a second examiner (Section 24 (3) no. 3).

(10) ¹The Master's thesis can be repeated once at the next possible regular deadline if the mark is worse than "sufficient" (4.0). ²However, the topic of the Master's thesis may only be returned within the period specified in para. 4 sentence 4 if the student did not make use of this option when preparing his or her first thesis.

Section 15 **Thesis defence**

¹The thesis defence is a partial module examination, which is marked as such in Appendix 2/column 12. ²The subject of the thesis defence is the Master's thesis. ³A failed thesis defence may be repeated once at the next possible date. ⁴The order in accordance with section 28 (2) sentence 3 shall be deemed to have been issued. ⁵One ECTS point is awarded for the thesis defence.

3. Forms of examination

Section 16

Oral module examinations and partial module examinations

(1) ¹Through oral module examinations and partial module examinations, the student should prove that he or she recognises the context of the examination area and is able to classify specialist questions in this context. ²Furthermore, it is to be determined whether the student has a basic knowledge corresponding to the level of the Master's programme.

(2) The duration of the oral module examinations or partial module examinations for each candidate is regulated in Appendix 2/column 14.

(3) ¹The essential subjects and results of the oral module examinations and partial module examinations shall be recorded in a protocol. ²The result is to be announced to the student following the oral module examination or partial module examination.

Section 17

Written examinations and other proctored examinations

(1) ¹In written examinations and other written proctored examinations, the student is to demonstrate that he or she can solve tasks and work on topics on the basis of the necessary basic knowledge in a limited time and with limited aids using the common methods of his or her subject. ²The student may be given a choice of topics; there is no entitlement to this.

(2) The duration of the written examinations and other written proctored examinations is regulated in Appendix 2/column 14.

(3) ¹Written module examinations and partial module examinations may also be taken in whole or in part in such a way that the candidate must indicate which of the suggested answers presented with the examination questions he or she considers to be correct (answer-choice procedure). ²The examination tasks must enable reliable examination results. ³The same examination tasks are to be set for all candidates. ⁴When setting up the examination tasks, it must be determined which answer suggestions are to be recognised as applicable. ⁵The examination papers must be checked by the task setter(s) before the examination result is determined to determine whether they are defective in relation to the requirements of sentence 2. ⁶If this review reveals that individual examination tasks are faulty, these are not to be taken into account when determining the examination result. ⁷The number of examination papers for the individual module examinations and partial module examinations shall be reduced accordingly. ⁸The assessment of the written module examination or partial module examination in accordance with para. 4 sentence 1 shall be based on the reduced number of examination papers. ⁹The reduction in the number of examination papers must not be to the disadvantage of a candidate.

(4) ¹Written module examinations and partial module examinations in accordance with para. 3 sentence 1, which consist of single-choice tasks (exactly one of a total of

n suggested answers is correct – “1 out of n”) are deemed to have been passed if

1. the candidate has answered at least 60 percent of the examination questions correctly, or
2. the candidate has answered at least 50 percent of the examination questions correctly and the number of questions answered correctly by the candidate is not more than 15 percent lower than the average performance of candidates who have taken the examination for the first time.

²If sentence 1 no. 2 is applied, the Dean of Studies shall be informed. ³If the candidate has achieved the minimum number of correctly answered examination questions required for passing the examination in accordance with sentence 1, the mark shall be

1. “very good” if he/she has correctly answered at least 75 percent,
2. “good” if he/she has correctly answered at least 50 percent but less than 75 percent,
3. “satisfactory” if he/she has correctly answered at least 25 but less than 50 percent,
4. “sufficient” if he/she has answered no or less than 25 percent

of the examination questions set in addition to this.

(5) ¹For examinations in accordance with para. 3 sentence 1 that consist of multiple choice tasks (an unknown number x , which lies between zero and n , of a total of n answer suggestions is correct – “ x out of n ”), para. 4 applies with the proviso that instead of the ratio of the correctly answered examination tasks to the total number of examination tasks, the ratio of the sum of the raw points achieved by the examinee to the achievable maximum performance is decisive. ²For each multiple choice task, a score is determined that corresponds to the number of answer suggestions (n) and that can be multiplied by a weighting factor for the individual multiple choice task. ³The examinee shall receive a basic score for a multiple choice task, which corresponds to the assessment number if the answer suggestions selected by the examinee correspond completely to the answer suggestions recognised as applicable. ⁴For each match between a proposed answer selected or not selected by the examinee and a proposed answer accepted as applicable or not applicable, one point is awarded for the basic score. ⁵If an answer suggestion that is recognised as applicable is not selected by the examinee or if an answer suggestion that is not recognised as applicable is selected by the examinee, one minus point is awarded for the basic score in each case. ⁶The basic score of a multiple choice task cannot be less than zero points. ⁷The raw points are calculated from the basic score multiplied by the respective weighting factor of the multiple choice task. ⁸The total maximum performance achievable is calculated from the sum of the products of all assessment numbers with the respective weighting factor of all multiple choice tasks.

(6) In the case of written module examinations or partial module examinations which are only partially taken using the answer-choice procedure, paragraphs 3 to 5 shall only apply to the respective part concerned.

(7) ¹A written module examination or partial module examination can also be taken in electronic form. ²The type and scope of this electronic performance assessment will be announced by the course instructor at the beginning of the course. ³Students will

be given sufficient opportunity to become familiar with the electronic examination system prior to the examination as part of the course. ⁴The provisions of data protection law must be complied with.

Section 18

Other forms of module examinations and partial module examinations

(1) ¹A paper is an independently prepared lecture which should be supported by suitable visual aids. ²The paper may be followed by a technical discussion.

(2) A scientific protocol contains the written, systematic processing of a subject-specific suitable course or several subject-specific suitable courses including a critical discussion of the contents.

(3) ¹An essay deals with a set task and is to be produced in written form as a continuous text. ²The Examination Board may require, in general or in individual cases, that the essay is also submitted in electronic form and may specify technical requirements for this.

(4) Further details are set out in Appendix 2.

4. Result of the Master's examination

Section 19

Passing and failing the Master's examination

(1) The Master's examination should be passed by the end of the fourth semester.

(2) ¹The Master's examination is passed if, at the latest by the end of the fifth subject-related semester

1. all module examinations or partial module examinations of the compulsory modules and the required compulsory elective modules have been passed in a manner provided for in Appendix 2, and
2. the required number of 120 ECTS credits has been achieved.

²The Master's examination is also passed if the requirements of sentence 1 are not fulfilled within the period stipulated therein, but are fulfilled within the framework of Section 11 (6) or a repetition permitted in accordance with these examination and study regulations.

(3) The Master's examination is definitively failed if the module examination or a partial module examination of one of the compulsory modules or required compulsory elective modules provided for in Appendix 2 has been taken but not passed, Section 11 (6) does not allow any further attempts and there is no longer any possibility of repeating the examination.

(4) ¹The Master's examination shall, subject to Section 11 (6, 8 & 9) as well as Section 31, be considered

1. as having been taken for the first time and not passed if the time limit specified in para. 1 is exceeded by more than one semester for reasons for which the student is responsible, and
2. as having been definitively failed if the deadline specified in para. 1 is exceeded by more than three semesters for reasons for which the student is responsible.

²Section 11 (5) sentences 3 to 7 apply accordingly.

Section 20

Notification and certificate in the event of failing

(1) If the Master's examination

1. has been definitively failed in accordance with Section 19 (3) or
2. is deemed to have been definitively failed in accordance with Section 19 (4) sentence 1 no. 2,

the chairperson of the Examination Board will issue a written decision on the matter, stating the grounds for appeal.

(2) If the Master's examination has not been passed or is deemed to have been failed, a certificate will be issued upon application and upon presentation of a de-registration certificate, which contains the successfully completed module examinations and partial module examinations, the assigned ECTS credits and assessments, as well as a declaration that the Master's examination has not been passed.

Section 21

Formation of the final mark

¹If the Master's examination is passed in accordance with Section 19 (2), the final mark is calculated from the arithmetic mean of the module marks weighted in accordance with Appendix 2/column 16; Section 10 (3) sentences 2 and 3 apply accordingly to the calculation of the final mark from the module marks. ²If more than 120 ECTS credits are earned in the Master's examination, only the 120 ECTS credits required to pass the Master's examination are taken into account when calculating the final mark. ³The following are required for passing the Master's examination

1. passing all module examinations and partial module examinations assigned to the compulsory modules in a manner provided for in Appendix 2, and
2. passing of all module examinations and partial module examinations assigned to the compulsory elective modules in a manner provided for in Appendix 2.

⁴If module examinations and/or partial module examinations are taken for more compulsory elective modules than are to be completed in accordance with sentence 3 no. 2, then subject to Section 7 (2) sentences 3 and 4, the module successfully taken first shall be deemed to be required in the sense of sentence 2. ⁵For compulsory elective modules, assigned module examinations or partial module examinations

1. successfully completed in different semesters, the former,

2. that were successfully completed in the same semester, the better

are considered. ⁶The compulsory elective module whose module examination or partial module examination exceeds 120 ECTS points for the first time is only taken into account with the number of ECTS points attributed to it insofar as 120 ECTS points are not exceeded.

Section 22

Master's Document, Master's Diploma, Master's Report Card, Master's Certificate, Transcript of Records and Diploma Supplement

(1) ¹After passing the Master's examination, the student shall receive a Master's Document in German and a Master's Diploma in English bearing the date of the last module examination or partial module examination. ²This certifies the award of the academic degree in accordance with Section 2.

(2) ¹Simultaneously with the Master's Document and the Master's Diploma, the student receives a Master's Report Card in German and a Master's Certificate in English with the date of the Master's Document and the Master's Diploma. ²The topic of the Master's thesis and its mark as well as the final mark shall be included in the Master's Document and the Master's Certificate.

(3) ¹The Examination Office shall also issue a Transcript of Records in German which contains all completed modules and the module examinations and partial module examinations assigned to them, including the ECTS points and assessments awarded for them. ²Module examinations and partial module examinations which are not included in the Master's examination in accordance with Sections 19 and 21 shall be included for information purposes.

(4) The Examination Office also issues a Diploma Supplement in English with information on the type and level of the Master's degree, the status of the Ludwig Maximilian University of Munich and detailed information on the study programme of the Master's degree.

(5) ¹The Master's Document and the Master's Diploma are signed by the Dean and the Chairperson of the Examination Board, the Master's Report Card and the Master's Certificate are signed by the Chairperson of the Examination Board, the Transcript of Records and the Diploma Supplement are signed by the Head of the Examination Office. ²The Master's Document, Master's Diploma, Master's Report Card, Master's Certificate, Transcript of Records and Diploma Supplement shall bear the seal of the Ludwig Maximilian University of Munich.

(6) ¹If, after the issue and delivery of a Master's Document, a Master's Diploma, a Master's Report Card, a Master's Certificate, a Transcript of Records, a Diploma Supplement, another certificate, another document or a statement of account, it is found that unauthorised aids have been used or that deception has been committed, the Examination Board may subsequently correct the relevant assessments and declare the examination wholly or partially failed. ²The incorrect Master's Document, the incorrect Master's Diploma, the incorrect Master's Report Card, the incorrect Master's Certificate, the incorrect Transcript of Records, the incorrect Diploma Supplement, any other incorrect certificate, any other incorrect document or any incorrect state-

ment of account shall be withdrawn.³If the requirements are met, a correct Master's Document, a correct Master's Diploma, a correct Master's Report Card, a correct Master's Certificate, a correct Transcript of Records, a correct Diploma Supplement, a correct other certificate, a correct other document or a correct final account statement shall be issued.⁴Such a decision is excluded after a period of five years from the date of the Master's Document and the Master's Certificate.⁵ Prior to a decision in accordance with sentence 1 and/or sentence 2, the opportunity to make a statement shall be given.⁶The student must be informed immediately in writing of any adverse decisions, the reasons for such decisions must be stated and the student must be provided with instructions on how to appeal.

IV. Examination bodies and examination administration

Section 23

Examination Board and Examination Office

(1)¹The Examination Board consists of three members who must have examination authorisation in accordance with Art. 62 (1) sentence 2 BayHSchG in conjunction with the University Examiners Ordinance (HSchPrüferV) as amended.²The members of the Examination Board are appointed by the Faculty Council.³The term of office of the members of the Examination Board shall be two years.⁴Reappointment is permitted.

(2)¹The members shall appoint a chairperson and deputy chairperson from among their number.²The term of office of the chairperson and the deputy chairperson shall be two years.³Reappointment is permitted.

(3)¹The Examination Board constitutes a quorum if all members have been invited in writing or electronically at least one week before the meeting, stating the agenda, and the majority of the members are present and entitled to vote.²It shall adopt resolutions by a majority of the votes cast at meetings; abstentions, secret ballots and the transfer of voting rights shall not be permitted.³In the event of a tie, the chairperson shall have the casting vote.⁴The exclusion of a member of the Examination Board from deliberation and voting in the Examination Board and from an examination activity shall be determined in accordance with Art. 41 (2) BayHSchG.

(4)¹The Examination Board shall be responsible for organising the examinations, appointing examiners and assessors (section 24 (3)) and making decisions in examination matters.²The Examination Board shall be assisted in the performance of its duties by the Examination Office.³The Examination Board shall ensure that the provisions of these examination and study regulations are observed.⁴It shall report regularly to the Dean of Studies on the development of examinations and study periods and shall make suggestions for the reform and expedient updating of these Examination and Study Regulations.

(5)¹The Examination Board may revocably delegate the performance of certain tasks to the Chairperson of the Examination Board, his or her deputy and the Examination Office.²In other respects, the chairperson of the Examination Board shall be authorised to take decisions on his or her own in place of the Examination Board that cannot be postponed; he or she shall inform the Examination Board of this without delay.

(6) The Examination Board shall adopt its own rules of procedure.

(7) The members of the Examination Board have the right to attend the examinations.

Section 24 Examiners and assessors

(1) ¹In the case of module examinations and partial module examinations which relate to only one course and with the exception of the Master's thesis, the examiner shall be the course instructor responsible for the course, subject to para. 4 sentence 1. ²In the case of module examinations and partial module examinations which relate to several courses taught by different course instructors, the Examination Board shall appoint a course instructor as examiner in general or in individual cases. ³Sentence 2 shall apply accordingly if the course instructor is not authorised to conduct examinations (para. 4 sentence 1).

(2) Written module examinations and partial module examinations which are to be assessed as "failed" shall be assessed by two examiners, oral module examinations and partial module examinations shall be assessed by at least one examiner and one expert assessor (para. 3 no. 1).

(3) The Examination Board shall appoint in general or in individual cases

1. for oral module examinations and partial module examinations, the assessors,
2. for module examinations and partial module examinations which are to be assessed as "failed", a second examiner,
3. one or more examiners (Section 14 (3)) or examiners (Section 14 (9)) for the Master's thesis and
4. one or more examiners for the thesis defence (Section 15).

(4) ¹Examiners may only be those who are entitled to take examinations in accordance with Art. 62 (1) sentence 2 BayHSchG in conjunction with the HSchPrüferV. ²Assessors must be competent persons who have successfully completed at least a Master's degree course or have a comparable qualification.

(5) The conduct of the examination process is the responsibility of the individual examiners and supervisors.

Section 25 Programme coordinator, examiners' duties

(1) ¹The programme coordinator for this Master's programme is appointed by the faculty. ²As long as no appointment has been made, the Dean of Studies shall perform these duties. ³The programme coordinator shall perform the following tasks in cooperation with the Examination Board, the Examination Office and the central university administration

1. in the establishment of and any changes to this Master's programme:

- a) the review of the modelling of these Examination and Study Regulations from a professional point of view,
 - b) the preparation of the necessary information on this Master's programme for students and examiners,
2. thereafter: the coordination and organisation of courses, module examinations and partial module examinations, namely
- a) the convening of an annual curriculum conference,
 - b) the assignment of the specific courses to the abstract courses prescribed in these Examination and Study Regulations,
 - c) the announcement of the courses in the course catalogue,
 - d) the input of the courses into the electronic data processing system,
 - e) the scheduling and room allocation of courses, module examinations and partial module examinations; and
 - f) the entry of the evaluation into the electronic data processing system.

(2) ¹The examiners (Section 24) are obliged to inform the Examination Office without delay, in a standardised form specified by the latter, which students have participated in their course and with what results. ²The notifications must be received by the Examination Office in good time and in the correct form; the Examination Office shall announce at the latest at the beginning of each semester when the notifications must be received by the Examination Office. ³If the requirements of sentence 2 are not met, the events concerned shall not be taken into account in the current account statements (Section 12). ⁴The examiner is obliged to submit these notifications to the Examination Office as soon as possible and to send all students concerned, as postal delivery orders, individual certificates in the form of an official notice with instructions on legal remedies.

Section 26

Duties of students to cooperate, confirmation of notifications

¹The student is obliged to confirm receipt of information, notifications and administrative acts of the Examination Board or Examination Office sent to him or her, handed to him or her or retrieved electronically in the required form at his or her own expense (confirmation of receipt). ²Acknowledgement of receipt can be made free of charge on the premises of the Ludwig Maximilian University of Munich. ³The Examination Office shall announce in the first two weeks of the lecture period in accordance with local practice when information, notifications and administrative files will be posted or sent out or can be accessed or collected electronically. ⁴The general statutory provisions shall apply to the service of such information, notices and administrative acts. ⁵Students who do not take note of posted information, notifications and administrative documents, who do not electronically retrieve or collect the information, notifications and administrative documents provided, and who do not accept the information, notifications and administrative documents sent or do not collect the information, notifications and administrative documents deposited by a mail-order company, shall be deemed to have received and been notified of such information, notifications and administrative documents one month after they have been posted, made available for electronic retrieval or collection, or sent. ⁶If the Examination Office re-transmits information, notifications and administrative files because the student does

not send the acknowledgement of receipt provided for in sentence 1 and/or does not take note of posted information, notifications and administrative files, does not electronically retrieve or collect the information, notifications and administrative files made available and does not accept those sent and/or does not collect those deposited by a mail-order company, the student shall bear the costs incurred for their retransmission.⁷The Examination Office is not obliged to make a new attempt at transmission.

V. Conduct of examinations

Section 27 Crediting of competences

(1)¹ Study periods, study and examination achievements which have been obtained in another course of study at the Ludwig Maximilian University of Munich or in courses of study at other state or state-recognised institutions of higher education in the Federal Republic of Germany, through successful participation in a distance learning unit within the framework of a course of study at a state or state-recognised institution of higher education in the Federal Republic of Germany or in courses of study at foreign institutions of higher education shall be credited, unless there are substantial differences with regard to the competences acquired (learning outcomes).²The same shall apply to periods of study, study and examination achievements which have been completed at a state or state-recognised higher education institution in Bavaria within the framework of other studies in accordance with Art. 56 (6) nos. 1 and 2 BayHSchG, in special study programmes in accordance with Art. 47 (3) sentence 1 BayHSchG or at the Virtual University of Bavaria.

(2)¹ Competences acquired within the framework of other further education studies in accordance with Art. 56 (6) no. 3 BayHSchG or outside the higher education sector may be credited if they are equivalent.² Competences acquired outside the higher education sector may replace no more than half of the competences to be demonstrated.

(3)¹ If study or examination achievements are credited, these marks – insofar as the marking systems correspond – are to be adopted and included in the calculation of the module and final mark in accordance with these Examination and Study Regulations.² The transferred marks are marked and the fact of the transfer is noted on the certificate.³ If the marking systems do not correspond, the chairperson of the Examination Board shall determine a mark for the credited course work and examination performance on the basis of the marking levels pursuant to Section 10 (2), and shall proceed in accordance with sentences 1 and 2.⁴ Sentences 1 to 3 apply accordingly to the allocation of ECTS credits.

(4)¹ The documents required for credit transfer must be submitted to the Examination Board by the end of the first semester after enrolment at the latest in this Master's degree programme at Ludwig Maximilian University of Munich if periods of study and coursework or examinations are to be credited that were already completed before enrolment in this Master's degree programme at Ludwig Maximilian University of Munich.² For the crediting of periods of study and study and examination achievements which are completed after enrolment in this Master's degree programme at Ludwig Maximilian University of Munich, the documents must be submitted in the respective

semester following their acquisition. ³As a rule, proof of periods of study to be credited shall be furnished by submitting the study record of the institution of higher education at which the period of study was completed. ⁴For the crediting of study and examination achievements, a certificate from the higher education institution at which the study and examination achievements were made must be submitted, from which it must emerge

1. which individual examinations (oral and/or written) were to be taken in which examination subjects as part of the overall examination,
2. which examinations were actually taken,
3. the evaluation of the study and examination achievements and, if applicable, the subject mark,
4. the marking system on which the assessment is based,
5. in the case of degree programmes with credit point systems, the credit points awarded for the individual courses in which the study and examination achievements to be credited were completed, as well as the number of credit points required for successful completion of the degree programme,
6. the extent of the individual courses in which the creditable study and examination achievements were made, in semester hours per week, and
7. whether an overall examination has been failed on the basis of the results available or is deemed to have been failed on the basis of other circumstances.

⁵Suitable evidence (certificates, diplomas, documentation, etc.) must be submitted for the crediting of competences acquired outside the higher education sector.

(5) In the case of certificates and documents which are not issued in German, the submission of a certified German translation may be required.

(6) The Examination Board decides on the recognition of periods of study, study and examination achievements, in cases of doubt after hearing from the responsible subject representative.

Section 28

Enrolment in courses and registration for module examinations and partial module examinations; study guidance measures

(1) ¹The Examination Board may stipulate for individual or all courses that an enrolment is required for participation in the course and regulate its form and deadline. ²Students who have not enrolled in a course for which enrolment was prescribed in accordance with sentence 1, or who have not enrolled in the course in due form and/or time, shall not be entitled to participate in this course. ³The courses for which enrolment is required, as well as the form and deadline of the respective enrolment, are announced by the Examination Office in the first two weeks after the start of the semester; announcement by the Examination Office exclusively on the internet is sufficient.

(2) ¹For all module examinations and partial module examinations, registration is required, the form and deadline of which are prescribed by the Examination Board. ²Students who have not registered for a module examination or partial module examination, or have not registered in due form and/or time, are not entitled to participate in this module examination or partial module examination. ³The Examination

Board may also generally rule that a module examination or partial module examination for which the student has registered is deemed to have been failed if the student fails to take it for reasons for which he or she is responsible or withdraws from the module examination or partial module examination for which he or she has taken it. ⁴Para. 1 sentence 3 shall apply mutatis mutandis to the form and deadline of the respective application.

(3) ¹A written record shall be made of the announcements in accordance with para. 1 sentence 3 and para. 2 sentence 4, containing in particular information on the content of the determinations and the time, manner and place of their announcement. ²The minutes shall be signed by the chairperson of the Examination Board and kept by the Examination Office for at least five years.

(4) Measures governing the conduct of studies shall be laid down in a separate statute of the Ludwig Maximilian University of Munich.

Section 29

Default, withdrawal

(1) A module examination or partial module examination shall be deemed to have been “failed” or assessed as “insufficient” (5.0) if the student

1. misses an examination date for a module examination or partial module examination for which he or she has registered and for which the Examination Board has issued an order in accordance with Section 28 (2) sentence 3 for a reason for which he or she is responsible, or
2. withdraws from a module examination or partial module examination which he or she has taken for a reason for which he or she is responsible, or
3. has failed to complete a written module examination or partial module examination within the specified processing time for a reason for which he/she is responsible.

(2) ¹The reason for the withdrawal or the failure to attend must be asserted in writing to the Examination Office without delay and must be substantiated. ²Section 11 (5) sentences 4 to 7 apply accordingly.

Section 30

Deception, breach of order

(1) If the student attempts to influence the result of a module examination or partial module examination by deception or the use of unauthorised aids to his/her own or another’s advantage, the module examination or partial module examination in question shall be assessed as “failed” or “insufficient” (5.0); in the case of written module examinations and partial module examinations, the possession of unauthorised aids during and after the issue of the examination documents shall already be deemed to be an attempt.

(2) A student who disrupts the orderly conduct of an examination may be excluded from continuing the module examination or partial module examination by the respec-

tive examiner or supervisor; in this case, the module examination or partial module examination shall be graded as “failed” or “insufficient” (5.0).

(3) In serious or repeated cases of para. 1 and/or para. 2, the Examination Board may exclude the student from taking individual or all further module examinations and partial module examinations; in the latter case, the student shall be deregistered in accordance with Article 49 (2) no. 3 BayHSchG.

(4) Section 22 (6) sentences 5 and 6 shall apply mutatis mutandis.

Section 31

Protective provisions under the Maternity Protection Act, according to the Federal Parental Allowance and Parental Leave Act and in accordance with the Nursing Care Leave Act

(1) It shall be possible to make use of the protective provisions under the Maternity Protection Act, as amended, in accordance with the time limits under the Federal Parental Allowance and Parental Leave Act, as amended, on parental leave and for the care of a close relative within the meaning of section 7 (3) of the Nursing Leave Act, as amended, who is in need of care within the meaning of sections 14 and 15 of the Eleventh Book of the Social Code, as amended.

(2) ¹The faculty shall determine which courses, the place, time and sequence of which are made compulsory for students by the Ludwig Maximilian University of Munich, but are not compulsory for pregnant or breastfeeding students; the same shall apply to internships made compulsory as part of university education. ²Students who are pregnant or breastfeeding should inform the Examination Office as early as possible. ³The Examination Board, in consultation with the course instructor, shall immediately determine the specific protective measures required – in accordance with a risk assessment not bound to a particular occasion pursuant to sentence 1 – and shall inform the pregnant or breastfeeding student of this. ⁴At the same time, the course instructor will offer to discuss with her further adjustments to the study and examination conditions that will meet the needs of the student during pregnancy or breastfeeding. ⁵Disadvantages due to pregnancy, childbirth or breastfeeding should be avoided or compensated for. ⁶The general regulations on compensation for disadvantages remain unaffected. ⁷An exam registration does not constitute an express declaration of waiver of the periods of protection, even if it is made after prior formal notification of pregnancy or breastfeeding in accordance with sentence 2.

Section 32

Compensation for disadvantages

(1) ¹Severely disabled persons and persons of equal status (Section 2 (2) and (3) of the Social Code – Ninth Book – Book IX of the Social Code, as amended) shall, on application, be granted an extension of the examination period of up to one quarter of the normal examination period by the Examination Board in accordance with the severity of their proven examination disability. ²In cases of particularly extensive examination disability, the duration of the examination may, on application, be extended by up to half the normal duration of the examination. ³In addition to or instead of an ex-

tension of the duration of the examination, other appropriate compensation may be granted.

(2) ¹Other candidates who are significantly impaired in the completion of module examinations or partial module examinations due to an identified, not merely temporary physical disability or chronic illness may be granted compensation for disadvantages in accordance with para. 1. ²In the event of temporary disabilities, other appropriate measures may be taken.

(3) ¹Applications for compensation for disadvantages must be submitted at the latest when registering for a module examination or partial module examination or at the latest one month before the respective module examination or partial module examination. ²The disability must be shown to be substantiated. ³The Examination Board may require that the prima facie evidence be provided in the form of a medical certificate. ⁴Section 11 (5) sentences 4 and 5 shall apply accordingly.

Section 33

Deficiencies in the examination procedure

(1) If it transpires that an examination procedure was afflicted with significant deficiencies which may have influenced the examination result, it shall be ordered, upon application by a participant or ex officio, that the entire module examination or partial module examination or an individual part thereof be repeated by certain or all participants.

(2) ¹Any alleged deficiencies in the examination procedure or any incapacity to take the examination that occurred before or during the module examination or partial module examination must be asserted and substantiated immediately, but no later than before the examination result is announced, to the supervisor, the examiner, the Examination Office or the chairperson of the Examination Board. ²Reasons within the meaning of sentence 1 that are asserted orally and substantiated must also be asserted and made credible immediately in writing to the Examination Office or to the Chairperson of the Examination Board. ³The validity and plausibility of the module examination or partial module examination shall be excluded in any case if one month has elapsed since the day on which the module examination or partial module examination was taken. ⁴Section 11 (5) sentences 3 to 7 apply accordingly.

Section 34

Inspection of examination files, retention periods

¹Within a period of time announced by the Examination Office in accordance with local practice after the completion of a module examination or partial module examination, the student shall be granted access to the same, related reports and records at the Examination Office within a reasonable period of time upon application; announcement of the period of time by the Examination Office exclusively on the internet shall be sufficient. ²The Examination Office may announce that, in deviation from sentence 1, the inspection according to sentence 1 will take place at another location in the Ludwig Maximilian University of Munich; an announcement of the other location by the Examination Office exclusively on the internet is sufficient. ³The complete examination files shall be retained for at least five years. ⁴The basic file, consisting of

copies of the Master's Document, the Master's Diploma, the Master's Report Card, the Master's Certificate and the Transcript of Records, shall be kept
ly. ⁵Storage may take place in electronic form.

VI. Final provisions

Section 35

Entry into force and transitional provisions

(1) These bylaws shall come into effect on 1 October 2018.

(2) Students who are enrolled in the Master's program in Neurosciences for the winter semester 2018/19 or later study on the basis of the Examination and Study Regulations of Ludwig Maximilian University of Munich for the Master's program in Neurosciences (2018) dated 29 November 2019.

(3) Students who are already enrolled in the Master's degree programme in Neurosciences in the summer semester 2018 shall continue their studies on the basis of the statutes, as amended from time to time, according to which they have been studying up to now.

1	Modules					Courses				Module examinations / partial module examinations							18
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Semester*	Admission requirement	Compulsory (P) / Elective (WP)	Short name of the module or the course	Name of the module	offered in	Admission requirement	Name of the course	Form of instruction	Semester hours per week	Admission requirement	Examination type*	Form of examination	Duration or scope of the examination	Grading or passed / not passed	Grade weighting	Repeatability	ECTS points*
4	Master's programme: Neurosciences (Master of Science, M.Sc.)																120
1.																	
1.	none	P	P 1	Fundamentals in Neuroscience I	WS					none	MP	Written exam or oral exam	90–120 minutes or 30–45 minutes	Grading	12	discretionary	6
		P	P 1.1		WS	none	Fundamentals in Neuroscience 1 – Lecture	Lecture	4								(5)
		P	P 1.2		WS	none	Fundamentals in Neuroscience 1 – Tutorial	Tutorial	1								(1)
1.	none	P	P 2	Systems Neuroscience I	WS					none	MP	Written exam and paper	90–120 minutes and 30–45 minutes	Grading	6	discretionary	3
		P	P 2.1		WS	none	Systems Neuroscience 1 – Lecture	Lecture	2								(2)
		P	P 2.2		WS	none	Systems Neuroscience 1 – Seminar	Seminar	1								(1)
1.	none	P	P 3	Research Project I	WS					none	MP	Report and paper	20 – max. 30 pages and 30–45 minutes	Grading		discretionary	6
		P	P 3.1		WS	none	Research Project 1 – Practical Course	Internship	5								(5)
		P	P 3.2		WS	none	Research Seminar – Topics in Neurosciences	Seminar	1								(1)
1.	none	P	P 4	Methods in Neuroscience	WS					none	MP	Paper	30–45 minutes	Grading		discretionary	6
		P	P 4.1		WS	none	Comparative Anatomy and Neuroanatomy – Practical Course	Exercise	3								(3)
		P	P 4.2		WS	none	Neurophysiology and Biophysics – Practical Course	Exercise	3								(3)

*) Explanatory notes to columns 1, 12 and 18 at the end of the table

Modules						Courses				Module examinations / partial module examinations							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Semester*	Admission requirement	Compulsory (P) / Elective (WP)	Short name of the module or the course	Name of the module	offered in	Admission requirement	Name of the course	Form of instruction	Semester hours per week	Admission requirement	Examination type*	Form of examination	Duration or scope of the examination	Grading or passed / not passed	Grade weighting	Repeatability	ECTS points*
<p>Exactly one elective has to be chosen from the elective fields “Systemic, Cellular and Molecular Neuroscience” and “Computational Neuroscience”. For this purpose, from the compulsory elective modules WP 1 to WP 8 1. for the compulsory elective area “Systemic, Cellular and Molecular Neuroscience” the compulsory elective modules WP 2, WP 3 and WP 6, 2. for the compulsory elective area “Computational Neuroscience” the compulsory elective modules WP 1, WP 4, WP 5, WP 7 and WP 8 have to be chosen.</p>																	
(1.)	none	WP	WP 1	Basics in Systemic, Cellular and Molecular Neuroscience	WS					none	MP	Written exam	90–120 minutes	Grading	6	discretionary	3
		P	WP 1.1		WS	none	Basics in Systemic, Cellular and Molecular Neuroscience – Lecture	Lecture	1								(1)
		P	WP 1.2		WS	none	Basics in Systemic, Cellular and Molecular Neuroscience – Practical Course	Exercise	2								(2)
(1.)	none	WP	WP 2	Advanced Systemic, Cellular and Molecular Neuroscience	WS					none	MP	Written exam	90–120 minutes	Grading	12	discretionary	6
		P	WP 2.1		WS	none	Advanced Systemic, Cellular and Molecular Neuroscience – Lecture	Lecture	1								(1)
		P	WP 2.2		WS	none	Advanced Systemic, Cellular and Molecular Neuroscience – Practical Course	Exercise	5								(5)
(1.)	none	WP	WP 3	Basics in Computational Neuroscience	WS					none	MP	Written exam or oral exam	90–120 minutes or 30–45 minutes	Grading	6	discretionary	3
		P	WP 3.1		WS	none	Basics in Computational Neuroscience – Lecture	Lecture	3								(3)

*) Explanatory notes to columns 1, 12 and 18 at the end of the table

Modules						Courses				Module examinations / partial module examinations							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Semester*	Admission requirement	Compulsory (P) / Elective (WP)	Short name of the module or the course	Name of the module	offered in	Admission requirement	Name of the course	Form of instruction	Semester hours per week	Admission requirement	Examination type*	Form of examination	Duration or scope of the examination	Grading or passed / not passed	Grade weighting	Repeatability	ECTS points*
(1.)	none	WP	WP 4	Theoretical Biophysics and Cellular Physiology	WS					none	MP	Written exam or oral exam	90–120 minutes or 20-30 minutes	Grading	6	discretionary	3
		P	WP 4.1		WS	none	Theoretical Biophysics and Cellular Physiology – Lecture	Lecture	2								(2)
		P	WP 4.2		WS	none	Theoretical Biophysics and Cellular Physiology – Practical Course	Exercise	2								(1)
(1.)	none	WP	WP 5	The Neural Code	WS					none	MP	Written exam	90–120 minutes	Grading	6	discretionary	3
		P	WP 5.1		WS	none	The Neural Code – Lecture	Lecture	2								(1)
		P	WP 5.2		WS	none	The Neural Code – Practical Course	Exercise	2								(2)
2.																	
2.	none	P	P 5	Fundamentals in Neuroscience II	SS					none	MP	Written exam or oral exam	90–120 minutes or 30–45 minutes	Grading	12	discretionary	6
		P	P 5.1		SS	none	Fundamentals in Neuroscience 2 – Lecture	Lecture	4								(5)
		P	P 5.2		SS	none	Fundamentals in Neuroscience 2 – Tutorial	Tutorial	1								(1)
	none	P	P 6 / I	Neurophilosophy	SS												
		P	P 6.1		SS	none	Neurophilosophy – Lecture	Lecture	2								(3)

*) Explanatory notes to columns 1, 12 and 18 at the end of the table

1	Modules					Courses				Module examinations / partial module examinations							18
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Semester*	Admission requirement	Compulsory (P) / Elective (WP)	Short name of the module or the course	Name of the module	offered in	Admission requirement	Name of the course	Form of instruction	Semester hours per week	Admission requirement	Examination type*	Form of examination	Duration or scope of the examination	Grading or passed / not passed	Grade weighting	Repeatability	ECTS points*
2.	none	P	P 7	Research Project II	SS					none	MP	Report and paper	20 – max. 30 pages and 30–45 minutes	Grading		discretionary	6
		P	P 7.1		SS	none	Research Project 2 – Practical Course	Internship	5								(5)
		P	P 7.2		SS	none	Research Seminar – Advanced Topics in Neurosciences	Seminar	1								(1)
<p>Exactly one elective has to be chosen from the elective fields “Systemic, Cellular and Molecular Neuroscience” and “Computational Neuroscience”. For this purpose, from the compulsory elective modules WP 1 to WP 8 1. for the compulsory elective area “Systemic, Cellular and Molecular Neuroscience” the compulsory elective modules WP 2, WP 3 and WP 6, 2. for the compulsory elective area “Computational Neuroscience” the compulsory elective modules WP 1, WP 4, WP 5, WP 7 and WP 8 have to be chosen.</p>																	
(2.)	none	WP	WP 6	Special Methods in Systemic, Cellular and Molecular Neuroscience for Experts	SS					none	MP	Written exam and paper	90–120 minutes and 30–45 minutes	Grading	24	discretionary	12
		P	WP 6.1		SS	none	Special Methods in Systemic, Cellular and Molecular Neuroscience for Experts – Lecture	Lecture	2								(3)
		P	WP 6.2		SS	none	Special Methods in Systemic, Cellular and Molecular Neuroscience for Experts – Practical Course	Exercise	6								(6)
		P	WP 6.3		SS	none	Special Methods in Systemic, Cellular and Molecular Neuroscience for Experts – Seminar	Seminar	2								(3)

*) Explanatory notes to columns 1, 12 and 18 at the end of the table

1	Modules					Courses				Module examinations / partial module examinations							18
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Semester*	Admission requirement	Compulsory (P) / Elective (WP)	Short name of the module or the course	Name of the module	offered in	Admission requirement	Name of the course	Form of instruction	Semester hours per week	Admission requirement	Examination type*	Form of examination	Duration or scope of the examination	Grading or passed / not passed	Grade weighting	Repeatability	ECTS points*
(2.)	none	WP	WP 7	Machine Learning and Analysis of Neural Data	SS					none	MP	Written exam and paper	90–120 minutes and 20-30 minutes	Grading	18	discretionary	9
		P	WP 7.1		SS	none	Machine Learning and Analysis of Neural Data – Lecture	Lecture	2								(3)
		P	WP 7.2		SS	none	Machine Learning and Analysis of Neural Data – Practical Course	Exercise	3								(6)
(2.)	none	WP	WP 8	Mathematical Models of Neural Systems and Cognitive Functions	SS					none	MP	Written exam	90–120 minutes	Grading	6	discretionary	3
		P	WP 8.1		SS	none	Mathematical Models of Neural Systems and Cognitive Functions – Lecture	Lecture	2								(1)
		P	WP 8.2		SS	none	Mathematical Models of Neural Systems and Cognitive Functions – Practical Course	Exercise	2								(2)
One compulsory elective module has to be chosen from the compulsory elective modules WP 9 and WP 10.																	
(2.)	none	WP	WP 9	Systems Neuroscience II	SS					none	MP	Written exam and paper	90–120 minutes and 30–45 minutes	Grading	6	discretionary	3
		P	WP 9.1		SS	none	Systems Neuroscience 2 – Lecture	Lecture	2								(2)
		P	WP 9.2		SS	none	Systems Neuroscience 2 – Seminar	Seminar	1								(1)
(2.)	none	WP	WP 10	Biomedical neuroscience	SS					none	MP	Written exam and paper	90–120 minutes and 30–45 minutes	Grading	6	discretionary	3
		P	WP 10.1		SS	none	Biomedical Neuroscience – Lecture	Lecture	2								(2)
		P	WP 10.2		SS	none	Biomedical Neuroscience – Seminar	Seminar	1								(1)

*) Explanatory notes to columns 1, 12 and 18 at the end of the table

Modules						Courses				Module examinations / partial module examinations							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Semester*	Admission requirement	Compulsory (P) / Elective (WP)	Short name of the module or the course	Name of the module	offered in	Admission requirement	Name of the course	Form of instruction	Semester hours per week	Admission requirement	Examination type*	Form of examination	Duration or scope of the examination	Grading or passed / not passed	Grade weighting	Repeatability	ECTS points*
3.																	
(3.)	none	P	P 6 / II	Neurophilosophy	WS					none	MP	Paper and essay	30–45 minutes and 20,000 – max. 30,000 characters	Grading	18	discretionary	9
		P	P 6.2		WS	none	Neurophilosophy – Seminar	Seminar	2								(6)
(3.)	none	P	P 8	Lab rotation	WS					none	MP	Report or Paper	20 – max. 30 pages or 30–45 minutes	Grading		discretionary	3
		P	P 8.1		WS and SS	none	Laboratory internship	Exercise	3								(2)
		P	P 8.2		WS	none	Lab Rotation – Seminar	Seminar	1								(1)
(3.)	none	P	P 9	Research Project III	WS					none	MP	Report and paper	20 – max. 30 pages and 30–45 minutes	Grading		discretionary	6
		P	P 9.1		WS	none	Research Project 3 – Practical course	Internship	5								(5)
		P	P 9.2		WS	none	Research Seminar – Special Topics in Neurosciences	Seminar	1								(1)
(3.)	none	P	P 10	Teaching and Training	WS and SS					none	MP	Paper	20–30 minutes	passed / not passed		discretionary	3
		P	P 10.1		WS and SS	none	Tutoring for Beginners	Tutorial	1								(1)
		P	P 10.2		WS and SS	none	Non–Scientific Skills	Workshop	1								(1)
		P	P 10.3		WS and SS	none	Vocational Training	Workshop	1								(1)

*) Explanatory notes to columns 1, 12 and 18 at the end of the table

Modules						Courses				Module examinations / partial module examinations							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Semester*	Admission requirement	Compulsory (P) / Elective (WP)	Short name of the module or the course	Name of the module	offered in	Admission requirement	Name of the course	Form of instruction	Semester hours per week	Admission requirement	Examination type*	Form of examination	Duration or scope of the examination	Grading or passed / not passed	Grade weighting	Repeatability	ECTS points*
Four compulsory elective modules are to be chosen from the compulsory elective modules WP 11 to WP 22.																	
(3.)	none	WP	WP 11	Interdisciplinary and Advanced Topics in Neurosciences I	WS and SS					none	MP	Written exam	90–120 minutes	Grading		discretionary	3
		P	WP 11.1		WS and SS	none	Interdisciplinary Training 1 – Lecture	Lecture	2								(3)
(3.)	none	WP	WP 12	Interdisciplinary and Advanced Topics in Neurosciences II	WS and SS					none	MP	Written exam	90–120 minutes	Grading		discretionary	3
		P	WP 12.1		WS and SS	none	Interdisciplinary Training 2 – Lecture	Lecture	2								(3)
(3.)	none	WP	WP 13	Interdisciplinary and Advanced Topics in Neurosciences III	WS and SS					none	MP	Written exam	90–120 minutes	Grading		discretionary	3
		P	WP 13.1		WS and SS	none	Interdisciplinary Training 3 – Lecture	Lecture	2								(3)
(3.)	none	WP	WP 14	Interdisciplinary and Advanced Topics in Neurosciences IV	WS and SS					none	MP	Written exam	90–120 minutes	Grading		discretionary	3
		P	WP 14.1		WS and SS	none	Interdisciplinary Training 4 – Lecture	Lecture	2								(3)
(3.)	none	WP	WP 15	Interdisciplinary and Advanced Topics in Neurosciences V	WS and SS					none	MP	Paper	30–45 minutes	Grading		discretionary	3
		P	WP 15.1		WS and SS	none	Interdisciplinary Training 5 – Seminar	Seminar	2								(3)
(3.)	none	WP	WP 16	Interdisciplinary and Advanced Topics in Neurosciences VI	WS and SS					none	MP	Paper	30–45 minutes	Grading		discretionary	3
		P	WP 16.1		WS and SS	none	Interdisciplinary Training 6 – Seminar	Seminar	2								(3)

*) Explanatory notes to columns 1, 12 and 18 at the end of the table

1	Modules					Courses				Module examinations / partial module examinations							18
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Semester*	Admission requirement	Compulsory (P) / Elective (WP)	Short name of the module or the course	Name of the module	offered in	Admission requirement	Name of the course	Form of instruction	Semester hours per week	Admission requirement	Examination type*	Form of examination	Duration or scope of the examination	Grading or passed / not passed	Grade weighting	Repeatability	ECTS points*
(3.)	none	WP	WP 17	Interdisciplinary and Advanced Topics in Neurosciences VII	WS and SS					none	MP	Paper	30–45 minutes	Grading		discretionary	3
		P	WP 17.1		WS and SS	none	Interdisciplinary Training 7 – Seminar	Seminar	2								(3)
(3.)	none	WP	WP 18	Interdisciplinary and Advanced Topics in Neurosciences VIII	WS and SS					none	MP	Paper	30–45 minutes	Grading		discretionary	3
		P	WP 18.1		WS and SS	none	Interdisciplinary Training 8 – Seminar	Seminar	2								(3)
(3.)	none	WP	WP 19	Interdisciplinary and Advanced Topics in Neurosciences IX	WS and SS					none	MP	Paper or report	20–30 minutes or 10 – max. 15 pages	Grading		discretionary	3
		P	WP 19.1		WS and SS	none	Interdisciplinary Training 9 – Practical Course	Exercise	3								(3)
(3.)	none	WP	WP 20	Interdisciplinary and Advanced Topics in Neurosciences X	WS and SS					none	MP	Paper or report	20–30 minutes or 10 – max. 15 pages	Grading		discretionary	3
		P	WP 20.1		WS and SS	none	Interdisciplinary Training 10 – Practical Course	Exercise	3								(3)
(3.)	none	WP	WP 21	Interdisciplinary and Advanced Topics in Neurosciences XI	WS and SS					none	MP	Paper or report	20–30 minutes or 10 – max. 15 pages	Grading		discretionary	3
		P	WP 21.1		WS and SS	none	Interdisciplinary Training 11 – Practical Course	Exercise	3								(3)
(3.)	none	WP	WP 22	Interdisciplinary and Advanced Topics in Neurosciences XII	WS and SS					none	MP	Paper or report	20–30 minutes or 10 – max. 15 pages	Grading		discretionary	3
		P	WP 22.1		WS and SS	none	Interdisciplinary Training 12 – Practical Course	Exercise	3								(3)

*) Explanatory notes to columns 1, 12 and 18 at the end of the table

Modules						Courses				Module examinations / partial module examinations							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Semester*	Admission requirement	Compulsory (P) / Elective (WP)	Short name of the module or the course	Name of the module	offered in	Admission requirement	Name of the course	Form of instruction	Semester hours per week	Admission requirement	Examination type*	Form of examination	Duration or scope of the examination	Grading or passed / not passed	Grade weighting	Repeatability	ECTS points*
4.																	
(4.)	none	P	P 11	Special Topics in Neurosciences	WS and SS					none	MP	Paper	30–45 minutes	passed / not passed		discretionary	3
		P	P 11.1		WS and SS	none	Special Topics in Neurosciences - Colloquium	Colloquium	1								(1.5)
		P	P 11.2		WS and SS	none	Neurosciences – Research Seminar	Seminar	1								(1.5)

*) Explanatory notes to columns 1, 12 and 18 at the end of the table

1	Modules					Courses				Module examinations / partial module examinations							18
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Semester*	Admission requirement	Compulsory (P) / Elective (WP)	Short name of the module or the course	Name of the module	offered in	Admission requirement	Name of the course	Form of instruction	Semester hours per week	Admission requirement	Examination type*	Form of examination	Duration or scope of the examination	Grading or passed / not passed	Grade weighting	Repeatability	ECTS points*
	successful participation in P 1 to P 5 and P 7 and modules totalling 24 ECTS credits from WP 1 to WP 10	P	P 12	Final modules	WS and SS												27
(4.)		P	P 12.1		WS and SS	successful participation in P 1 to P 5 and P 7 and modules a total of 24 ECTS credits from WP 1 to WP 10	Master's thesis	Master's thesis		successful participation in P 1 to P 5 and P 7 and modules a total of 24 ECTS credits from WP 1 to WP 10	MTP, MAA	Master's thesis	24 weeks, 40 – max. 60 pages	Grading		once, next date	(26)
(4.)		P	P 12.2		WS and SS	successful participation in P 1 to P 5 and P 7 and modules a total of 24 ECTS credits from WP 1 to WP 10	Thesis defence	Thesis defence		successful participation in P 1 to P 5 and P 7 and modules a total of 24 ECTS credits from WP 1 to WP 10	MTP, DP	Thesis defence	45 minutes	Grading		once, next date	(1)

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Modules						Courses				Module examinations / partial module examinations							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Semester*	Admission requirement	Compulsory (P) / Elective (WP)	Short name of the module or the course	Name of the module	offered in	Admission requirement	Name of the course	Form of instruction	Semester hours per week	Admission requirement	Examination type*	Form of examination	Duration or scope of the examination	Grading or passed / not passed	Grade weighting	Repeatability	ECTS points*
<p>Explanations</p> <p>Re: column 1: Bracketed numbers are recommendations; numbers not in brackets define a binding rule date (s. 11).</p> <p>Re: column 12: MP = Module examination / MTP = Partial module examination / MAA = Master's thesis / DP = Thesis defence</p> <p>Re: column 18: ECTS points not in brackets are awarded upon passing the corresponding module (s. 10 (4) sentence 2). ECTS points in brackets are only used for mathematical allocation.</p>																	

*) Explanatory notes to columns 1, 12 and 18 at the end of the table