

University of Leipzig  
Faculty for Chemistry and Mineralogy

# **Examination Regulations for the Master`s Program Structural Chemistry and Spectroscopy at the University of Leipzig**

From May 3, 2018

Based on the Law on Higher Education Institutions in the Free State of Saxony (Saxon Higher Education Act - SächsHSG) of 10 December 2008 (SächsGVBl. p. 900), last amended by Article 11 of the Law on Accompanying Regulations to the 2015/2016 biennial budget (Budgetary Laws 2015/2016 - HBG 2015/2016) of 29 April 2015 (SächsGVBl. p. 349), Leipzig University issued the following examination regulations on 5 October 2017.

As of March 7, 2019, 1st amendment to the Examination Regulations (including changes in the appendix).

As of April 16, 2020, 2nd amendment to the Examination Regulations (only changes mentioned in the appendix)

As of June 3, 2021, 3rd amendment to the Examination Regulations (including changes in the appendix)

4<sup>th</sup> and 5<sup>th</sup> amendment to the examination regulation are on the committee ways, but will be mentioned here (not a legally valid translation, serves only as a reading assistance)

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## **I. General regulations**

### **§ 1**

#### **Purpose of the Master's examination**

The Master's examination determines whether and to what extent the following objectives of the program have been achieved:

1. Acquisition of the basic and in-depth professional knowledge necessary for the transition into professional life.
2. Application of acquired knowledge and skills through independent work on a more extensive theoretical and/or experimental problem with a subject-specific focus. (The focus lies in analytical chemistry, inorganic chemistry, organic chemistry, physical chemistry and technical chemistry).

## **§ 2**

### **Standard period of study**

The standard period of study is 4 semesters. It includes the module examinations and the Master's thesis.

## **§ 3**

### **Exam structure**

- (1) The Master's examination consists of the module examinations of the Master's program and the Master's thesis.
- (2) The module examination usually consists of one, but not more than two performance assessments. The performance assessments of a module are carried out during the course of study. The examination table (appendix) indicates particular assignment of the performance assessments to the modules, the weighting of the performance assessments within a module, as well as the prerequisites for examinations to be fulfilled.

## **§ 4**

### **Deadlines**

- (1) The Master's examination should be taken within the standard period of study. A Master's examination that has not been taken within 4 semesters after completion of the standard period of study is considered as failed.
- (2) A failed module examination should be repeated once within one year after completion of the first examination attempt. The period begins with the announcement of the results. After expiry of this period, the repeat attempt is considered as failed. The first repeat examination can take place in the same semester, but no earlier than 14 days after the announcement of the result. A second re-examination must be taken at the next possible examination date. Participation in second re-examination also requires a written application to the examination board.
- (3) In the case of part-time study, the deadlines according to paragraph 1 and paragraph 2, sentence 1 are extended according to the proportion of part-time study; further details are specified in the inter-faculty regulations governing part-time study in the currently valid version.
- (4) The dates for the examinations and performance assessments are usually announced electronically. The announcement is usually made 4 weeks before the respective examination date.

- (5) The announcement of the test result is usually done electronically.
- (6) Absence for which the student is not responsible are not to be taken into account when calculating the deadlines. This also applies to periods of maternity leave and parental leave.

## **§ 5**

### **General module admission requirements**

- (1) The module examinations and Master`s thesis in the international Master`s program Structural Chemistry and Spectroscopy can only be taken by those who
  1. are enrolled in the Master`s program Structural Chemistry and Spectroscopy at the University of Leipzig and who
  2. have fulfilled the prerequisites for examinations listed in the appendix of the examination regulations.
- (2) Those students, who has not received a notification that their participation in the examination is refused according to paragraph 4 up to one week before the assignment is given or before the examination performance is taken, are allowed to take the module exam. Admission to the Master's thesis is considered to have been granted by the issuing of the topic.
- (3) The registration for the module is at the same time the registration for the module examination. Deregistration from the module and the associated deregistration from the module examination can be made at the latest 4 weeks before the end of the lecture period by written notification to the responsible examination office. In case of a timely deregistration from the module, all achievements already obtained in the module are considered as not completed. Afterwards, withdrawal from examinations is only possible for important reasons and requires the written notice and the written approval of the examination board.
- (4) Admission to the module examinations and the Master's thesis may only be refused if
  1. the requirements specified in paragraph 1 are not met,
  2. the documents are incomplete or
  3. the examination candidate has lost his/her entitlement to the examination in accordance with state law by missing the deadlines for registering or taking the respective examination.Reasons for rejection must be provided.

## **§ 6**

### **Pre-requisites for examinations**

- (1) Prerequisite for examinations (study achievements, which are the technical prerequisite for admission to the module examination) are performed in the form of practical work and presentations and are assessed as "passed" or "failed".
- (2) The required examination prerequisites are regulated in the appendix to the examination regulations.
- (3) Internship performances usually consist of an antestat (preliminary knowledge assessment), the execution of the experiment, and a written protocol in which the experiments are documented and evaluated. Antestats last 15 to 30 minutes. The execution of the practical comprises the attendance times shown in the module description. The processing time of the written protocol with a discussion of the results is 6 weeks. Further subject-specific features will be communicated to the students for each practical course before registration for the module by means of a notice or electronically.
- (4) Presentations are to be prepared according to the issued topics. They will be presented in a presentation of about 20 minutes duration and 10 minutes discussion. The exact procedures will be communicated to the students before registering for the module.
- (5) In case of failing examination prerequisite, it may be repeated twice within one semester. If the repeated attempts are also not passed, the module is considered as not taken.

## **§ 7**

### **Performances assessments (examinations)**

- (1) Performance assessments are to be conducted:
  1. oral examination (§ 8)
  2. through written examinations (§ 9) or
  3. through further performance assessments (§ 10).
- (2) Written examinations using the multiple-choice method are excluded.
- (3) If the examination candidate can verify that, due to disability or chronic illness, he/she is not able to complete all or part of the examination in the

scheduled time or in compliance with other examination conditions, he/she will be permitted to complete the examination within an extended time or to complete equivalent examination work in another form. For this purpose, the presentation of a medical certificate and, in cases of doubt, a certificate from an official medical officer may be required. The same applies to other course work.

## **§ 8**

### **Oral examinations**

- (1) By means of oral examinations, the examination candidate should demonstrate that he/she is able to understand the context of the examination area and that he/she is able to integrate specific questions into this context. Furthermore, it is to be determined whether the examination candidate has a basic knowledge corresponding to the course of study.
- (2) Oral examinations are to be taken by several examiners (collegial examination) or by one examiner in the presence of an expert assessor (§ 17 para. 1 sentence 4) as a group or individual examination. A protocol shall be prepared on the progress of the examination, in which the essential subjects and results of the examination shall be recorded. In the case of a group examination, the grade shall be determined by the examiners; otherwise, the examiner shall hear the assessor before assigning the grade.
- (3) The duration of the oral examination performance is determined in the appendix to the examination regulations.
- (4) The result is to be announced to the examination candidate following the oral examination.

## **§ 9**

### **Written exams**

- (1) In the written examinations, the examination candidate should demonstrate that based on the required basic knowledge, he/she can solve tasks and work on topics in a limited time and with limited aids using the common methods of his/her subject. The examination candidate may be given topics to choose from.
- (2) The duration of the written examinations is determined in the appendix to the examination regulations.
- (3) Written examinations are usually graded by two examiners. The final grade of the written exam is the arithmetic mean of the grades of the two

assessments. The assessment procedure should not exceed a duration of 4 weeks.

## **§ 10**

### **Further performance assessments**

- (1) Further performance assessments are internships and presentations.
- (2) Internship consists of carrying out the experiment, submitting a written report and giving a presentation. The execution of the internship usually takes 150 hours. The duration of the processing of the written protocol with a discussion of the results is 6 weeks. The duration of the presentation with a short discussion and defense of the results is usually 15 minutes. In the modules 13-121-0641 and 13-121-0642, internship performances consist of the actual execution of experiments (10 experiments) and a report. If so-called, antestats are included, the knowledge essential for performing the experiments must be demonstrated. As a rule, the results are discussed in final tests (abtestats). Antestats and abtestats usually last 15 minutes. Further subject-specific features are communicated to the students for each practical course in written form before the registration for the module.
- (3) Presentations are to be prepared according to the assigned topics. The duration of the talk is 30 minutes. The topics are presented in a presentation of about 20 minutes duration and 10 minutes discussion. The exact modalities will be communicated to the students at the beginning of the module.
- (3) For the evaluation of the further performance assessments § 8 para. 2, 4 and § 9 para. apply accordingly.

## **§ 11**

### **Assessment of examination performances, generation and weighting of grades**

- (1) The grade of the Master's examination is calculated from the arithmetic mean of the grades of the module examinations and the Master's thesis, weighted according to credit points. If the overall grade of the Master's examination is 1.2 or better, the grade "passed with distinction" will be awarded, provided that the colloquium according to § 18 para. 11 also corresponds to this performance.
- (2) The results of the performance assessments are combined into a module

grade by the examination office. The grades for the individual performance assessments are determined by the respective examiners. For the evaluation of oral examination performances, § 8 para. 2 sentence 3 applies. The following grades are to be used for the evaluation of the performance in the examination:

1 = very good	=	an outstanding performance
2 = good	=	a performance that is significantly above the average requirements
3 = satisfactory	=	a performance that meets average requirements
4 = sufficient	=	a performance that, despite its shortcomings, still meets the requirements
5 = insufficient	=	a performance that no longer meets the requirements due to significant shortcomings

- (3) For differentiated assessment of examination performance, individual grades may be raised or lowered by 0.3 to intermediate values; grades 0.7, 4.3, 4.7 and 5.3 are excluded.
- (4) If a module examination consists of several examinations, the module grade results from the arithmetic mean of the grades of the examinations, weighted according to the appendix to the examination regulations. A weighting of the individual examination performances is carried out by the formation of multiples. Individual examination performances of the module examination are in principle intercompensable. If the module examination is passed, the corresponding credit points are awarded and documented with the grades at the examination office.
- (5) When calculating the grade of the Master's examination, the grade of the performance assessments and the module grade, only the first decimal place after the comma is taken into account; all other places are deleted without rounding.

The module grade is:

1. with an average up to and including 1.5	= very good
2. with an average from 1.6 to 2.5 inclusively	= good
3. with an average from 2.6 to 3.5 inclusively	= satisfactory
4. with an average from 3.6 to 4.0 inclusively	= sufficient
5. with an average above 4.0	= not sufficient



## § 12

### **Unexcused Absence, Withdrawal, Deception, Breach of Regulation**

- (1) A performance assessment is considered to be "not sufficient" (5.0) if the candidate misses an examination date that is obligatory for him/her without an important reason or if he/she withdraws from an examination without an important reason. § 5 para. 3 remains unaffected. Sentence 1 applies accordingly if a written examination performance or the Master's thesis is not completed within the specified processing time without a significant reason.
- (2) The reason asserted for the withdrawal or unexcused absence must be notified in written form without delay and must be credible. In the case of illness of the examination candidate, the submission of a medical certificate and, in cases of doubt, an official medical certificate may be required. As far as the compliance with deadlines for the initial registration for the examination, the repetition of examinations, the reasons for missing examinations and the compliance with processing times for examination papers are concerned, the illness of a family member who has to be cared for by him/her predominantly alone is equivalent to the illness of the examination candidate. If the reason is recognized, a new date will be scheduled. In this case, the performance assessment results already available are to be credited.
- (3) If the examination candidate attempts to influence the result of his/her examination performance by deception, by using sources without citation, by quoting without indication or by using unauthorized aids, the examination performance in question will be graded as "insufficient" (5.0). An examination candidate who disturbs the proper course of the examination can be excluded from continuing the examination by the respective examiner or supervisor; in this case, the examination performance will be graded as "not sufficient" (5.0).
- (4) In serious cases as defined in para. 3, the board of examiners may
  1. declare the entire module examination failed or permanently failed,
  2. exclude the examination candidate from taking further examinations.

The examination candidate must be given the opportunity to explain his/her position before the decision is made.

- (5) Incriminating decisions must be communicated to the examination candidate in writing without delay, reasons must be given, and the candidate must be provided with instructions on how to appeal.

## **§ 13**

### **Pass and fail**

- (1) The Master's examination is passed if the required module examinations of the master's examination have been passed and the master's thesis has been evaluated with "sufficient" (4.0) or better.
- (2) If the candidate has not passed the Master's examination, he/she upon application and upon presentation of the relevant evidence will be issued a certificate that contains the academic and examination achievements and their grades and indicates that the Master's program has not been completed.
- (3) A module examination is passed if the module grade is "sufficient" (4.0) or better.
- (4) In deviation from § 11 para. 4, performance assessments specially marked in the appendix to the examination regulations must have been evaluated with "sufficient" (4.0) or better. These examination performances cannot themselves be compensated for in the case of a grade worse than "sufficient" (4.0), but must be taken into account to compensate for other examination performances in the module examination.
- (5) A performance assessment that has not been graded with "sufficient" (4.0) or better does not exclude the continuation of the module examination.
- (6) If the examination candidate has not passed a module examination or if the Master's thesis was graded worse than sufficient (4.0), the examination candidate will be informed of this in written form. Furthermore, he/she will be informed whether and, if so, to what extent and within what period the examination performance or the Master's thesis can be repeated.

## **§ 14**

### **Repeating the module exams**

- (1) It is not possible to repeat the entire Master's examination as defined in § 3 (1). If a module examination of a compulsory module is ultimately not passed, the Master's examination is also ultimately not passed. If a module examination in a compulsory elective module is not passed, the Master's examination is also permanently failed, unless the module is replaced in accordance with paragraph 3.

- (2) In the case of failure of a module examination, only performance assessments graded "insufficient" (5.0) may be repeated. In the case of § 12 para. 4 sentence 1 no. 1 var. 1, all examination performances of the module examination must be repeated. § 4 para. 2 remains unaffected.
- (3) If the module examination in a compulsory-elective module is ultimately not passed, this can be replaced by passing another compulsory elective module that can be taken.

## **§ 15**

### **Recognition of study duration, study and examination achievements**

- (1) Study achievements and examination achievements that have been completed at a university will be credited by the responsible examination board upon application, unless there are significant differences with regard to the competencies acquired. Students must submit the documents required for this purpose. In cases of crediting according to sentence 1, the corresponding study hours are to be credited.
- (2) Paragraph 1 applies accordingly to periods of study as well as coursework and examinations in state-recognized remote studies and other educational institutions.
- (3) Qualifications acquired outside the course of study are credited insofar as they correspond to parts of the course of study in terms of content and requirements and can thus replace them.
- (4) If study and examination achievements are credited, the grades - insofar as the grading systems are comparable - are to be adopted and included in the calculation of the overall grade. A marking of the accreditation in the certificate is permissible. In the case of incomparable grading systems, the remark "passed" is included.
- (5) In case of denial of recognizing, the responsible examination board has to give reasons in written form.

## **§ 16**

### **Examination board**

- (1) The examination board is formed at the Faculty of Chemistry and Mineralogy.

- (2) The examination board consists of the chairperson, his/her deputy and up to 5 additional members. Up to 4 members are appointed by the Faculty Council from the group of university teachers, up to 2 members from the group of academic staff and one member from the group of students. The student member is appointed in agreement with the student representatives in the Faculty Council. Furthermore, a substitute member is to be appointed for each member of the examination board from his/her group. The members of the examination board elect the chairperson and a deputy from among the university teachers. The university professors have the majority of the votes. The period of service in examination board for professors and staff members is 3 years, that of the students is one year.
- (3) The examination board ensures that the provisions of the examination regulations are observed and makes suggestions for reforming the examination and study regulations. The examination board has a quorum if the meeting has been properly convened and the majority of the members are present. The Examination Committee shall pass resolutions by a majority of the votes of those present. The student member does not participate in the determination of examination tasks.
- (4) The chairperson prepares and executes the decisions of the examination board. He/she reports to the Faculty Council on the activities of the Examination Board, in particular on the development of study periods and the distribution of grades. The examination board may delegate parts of its competences to its chairperson, this does not apply to decisions on appeals.
- (5) For examinations in interdisciplinary modules, the necessary decisions are made in consultation with the examination board responsible for the other subject.
- (6) The members of the examination board have the right to attend the sitting of examinations. The examiner must be notified of this no later than 14 days before the examination.
- (7) The members of the examination board are subject to official secrecy. If they are not in public service, they must be sworn to secrecy by the chairperson.

## **§ 17**

### **Examiners and assessors**

- (1) Only professors and other persons authorized to conduct examinations who have been granted the authorization to teach in the subject areas to which the examination performance relates or who have been assigned

the independent performance of teaching tasks shall be appointed as examiners. Insofar as this is appropriate according to the subject of the examination, an examiner may also be appointed who has the authority to teach independently only for a sub-area of an examination subject. In exceptional cases, teachers for special tasks as well as persons experienced in professional practice and training may also be appointed as examiners, provided that this is appropriate according to the nature of the university examination. Examiners and assessors must at least have the qualification to be assessed by the examination or an equivalent qualification.

- (2) The names of the examiners are announced to the examination candidate at least 4 weeks before the examination date. Justified deviations are possible and require the approval of the examination board.
- (3) For the examiners and assessors, § 16 para. 7 applies accordingly.

## **§ 18**

### **Master's thesis**

- (1) The Master's thesis should demonstrate that the examination candidate is able to work independently on a problem within his/her subject according to scientific methods within a given period of time. An analysis of the relevant state of research is expected; in the course of the thesis it must become clear what distinguishes the candidate's own approach and why it was chosen.
- (2) The Master's thesis is supervised by a professor or another person authorized to conduct examinations, provided that this person works at the University of Leipzig in an area relevant to the Master's program in Structural Chemistry and Spectroscopy. If the Master's thesis is to be carried out at an institution outside the university, this requires the approval of the chairperson of the examination board.
- (3) The Master's thesis is usually written in the fourth semester and consists of 30 LP of work. The master's thesis must be submitted to the examination office within 23 weeks after the start of work on the topic. The deadline for submission may be extended by the Examination Committee on the basis of a statement by the supervisor for reasons for which the candidate is not responsible, usually by up to 6 weeks. If the Master's thesis is not submitted on time for reasons for which the candidate is responsible, it shall be deemed to have been assessed as "insufficient". The Master's thesis should be thematically related to a research-oriented focus.

- (4) The topic of the Master's thesis is issued upon application of the examination candidate via the Examination Committee at the earliest after successful completion of the three compulsory modules (§25 Para. 3 No. 1), one of the elective modules (§25 Para. 3 No. 2) and the three elective internship modules (§25 Para. 3 No. 4) and modules in the scope of at least 35 credit points from the area of the elective modules (§25 Para. 3 No. 3). By the time the master's thesis is issued, the student must provide evidence of participation in a course on good scientific practice, to the extent of one day's workshop. The Master's thesis should be started no later than four weeks after completion of all modules totaling 90 credit points. The topic and date are to be kept on file. The examination candidate may express topic preferences. The topic can only be returned once and only within two weeks after issue.
- (5) The Master`s thesis may be started at the earliest after successful completion of the 4 compulsory modules (20 LP), the 3 experimental elective modules (30 LP) and at least 6 elective modules (30 LP). It must be started no later than 4 weeks after completion of all modules totaling 90 LP.
- (6) The Master's thesis may also be submitted in the form of a group thesis if the contribution of the individual examination candidate to be assessed as an examination performance is clearly distinguishable and assessable on the basis of the specification of sections, page numbers or other objective criteria that enable a clear delimitation and fulfills the requirements according to paragraph 1.
- (7) The date of submission is to be recorded. With the paper, the examination candidate must affirm that he/she has written his/her paper - in the case of a group paper, his/her correspondingly marked part of the paper - independently and has not used any sources and aids other than those indicated.
- (8) The scientific Master's thesis must be submitted in electronic form in English to the 2 examiners and the office of study affairs at the same time. To meet the deadline, it is sufficient to submit the bachelor thesis to the office of study affairs in due time.
- (9) The Master's thesis is to be independently evaluated by 2 examiners. One of them should be the supervisor of the Master`s thesis.
- (10) The final grade of the Master's thesis is calculated as follows. If the grades of the two expert opinions are "sufficient" (4.0) or better and are not more than 2.0 apart, the final grade is calculated as 4/5 from the average of the

two grades of the expert opinions and 1/5 from the grade of the colloquium (paragraph 11). If both grades of the expert opinions are "insufficient" (5.0), the thesis is failed. If one of the two grades of the expert opinions is "not sufficient" (5.0) or if the grades of the two expert opinions are more than 2.0 apart, the chairperson of the examination committee appoints a third expert. The final grade is then calculated as 4/5 of the average of the two better grades of the expert opinions, if they are "sufficient" (4.0) or better, and 1/5 of the grade of the colloquium. If two of the three grades of the expert opinions are "not sufficient" (5.0), the final grade is "not sufficient" (5.0).

- (11) The results of the Master's thesis are to be presented in a colloquium consisting of a presentation (duration 20 minutes) followed by a discussion (duration 20 minutes). The colloquium is evaluated by the examiners appointed by the examination board, whereby at least one of the examiners should be one of the reviewers (paragraph 9). If the colloquium is evaluated as "insufficient" (5.0), it can be repeated twice within the period of a total of 3 months after the announcement of the result. After this period has expired, a repetition is not possible unless the student is not responsible for missing the deadline. The evaluation of the colloquium is included in the grade of the master's thesis according to paragraph 10.
- (12) If the master's thesis is worse than "sufficient" (4.0), it can be repeated once within one year. The period begins with the announcement of the result. After expiry of this period, the repeat attempt is deemed to have been failed. A second repeat examination is only possible upon application for the next possible examination date. However, a change of the topic of the Master's thesis within the period specified in paragraph 4 is only permissible if the examination candidate has not previously made use of this option.
- (13) The entire assessment procedure of the Master's thesis including the colloquium must not exceed a duration of 6 weeks.

## **§ 19**

### **Certificate and Master's diploma**

- (1) The candidate will receive a certificate for passing the Master's examination immediately, if at all possible within 4 weeks. The transcript of records with the awarded grades and credit points for the modules of the Master's program as well as the overall grade will be attached to the certificate.
- (2) The certificate shall bear the date of the day on which the last examination

performance was completed as well as the date of issue of the certificate. Furthermore, the certificate contains the name, date and place of birth of the student, the topic and grade of the Master's thesis as well as the overall grade of the examination. The certificate is designed in accordance with the corporate design of the University of Leipzig.

- (3) The University of Leipzig issues a Diploma Supplement (DS) according to the "Diploma Supplement Model" of the European Union/Council of Europe/UNESCO.
- (4) At the same time as the Master's certificate, the examination candidate receives the Master's diploma with the date of the certificate. This certifies the award of the Master's degree. The master's diploma is signed by the chairperson of the examination board and the dean of the Faculty of Chemistry and Mineralogy and bears the seal of the Faculty of Chemistry and Mineralogy. The Master's diploma and the transcript are issued in both German and English.

## **§ 20**

### **Invalidity of the Master's examination**

- (1) If the examination candidate has cheated in a performance assessment/examination and this fact only becomes known after the certificate has been issued, the grade of the examination performance can be corrected in accordance with § 12 para. 3. If necessary, the module examination and the Master's examination can be declared failed.
- (2) If the requirements for taking a module examination were not fulfilled without the examination candidate intending to deceive about this, and if this fact only becomes known after the certificate has been issued, this defect is rectified by passing the module examination. If the examination candidate has intentionally caused the module examination to be taken without justification, the module examination and the Master's examination can be declared failed.
- (3) The examination candidate must be given the opportunity to comment before a decision is made.
- (4) Paragraphs 1 to 3 apply accordingly to the Master's thesis.
- (5) An invalid certificate must be withdrawn and, if necessary, a new one issued. The Master's diploma, the data transcript and the Diploma Supplement are to be confiscated together with the invalid certificate. A decision according to paragraph 1 and paragraph 2 sentence 2 is excluded



after a period of 5 years from the date of the certificate issue.

## **§ 21**

### **Inspection of the examination files**

Within one year after completion of the examination procedure, the examination candidate will be granted access to his/her written examination papers, the related expert opinions and the examination protocols within a reasonable period of time upon request in free form.

## **§ 22**

### **Responsibilities of the examination board**

- (1) The examination board of the Faculty of Chemistry and Mineralogy is responsible for all tasks to be performed according to these regulations, unless otherwise specified.
- (2) This examination board is responsible in particular for decisions
  1. on the refusal of admission to the module examinations and the Master's thesis (§ 5),
  2. on the consequences of violations of examination regulations (§ 12),
  3. on passing and failing (§ 13),
  4. on the recognition of period of study, examination and study achievements including the justification of non-recognition (§ 15),
  5. on the appointment of examiners and assessors (§ 17) and the authorization to issue the Master's thesis (§ 18),
  6. on the invalidity of the Master's examination (§ 20) and
  7. about objections in the examination procedure (§ 23).

## **§ 23**

### **Right of objection**

- (1) Any incriminating decisions must be accompanied by instructions on how to appeal.
- (2) The examination candidate may appeal against incriminating decisions within one month after notification. The appeal is to be submitted in written form or form of written record to the examination board of the Faculty of Chemistry and Mineralogy.
- (3) The examination board will decide on the appeal within a period of 3 months.

## II. Specific regulations

### § 24

#### Scope of Studies

- (1) The total student workload for the successful completion of the Master's program Structural Chemistry and Spectroscopy corresponds to 120 credit points (CP). In addition to the attendance study, this also includes the self-study, the examination prerequisites and the examination workload. One credit point corresponds to a student workload of 30 time hours.
- (2) In each academic year, students normally earn 60 credit points, which are awarded on passing module examinations.

### § 25

#### Subject, type and scope of the Master's examination

- (1) The Master's examination consists of examinations for the modules listed in the appendix and the Master's thesis.
- (2) The Master's program consists of 120 credit points, of which 30 credit points are devoted to the Master's thesis.
- (3) The research-oriented program is structured as follows:
  1. Three mandatory modules:

13-121-0321	Chemistry of Natural Products
13-122-0121	NMR on Biosystems
13-122-0221	Structural Analysis in Inorganic Chemistry

each worth 5 credit points.
  2. One choice-obligatory module to be chosen from the following:

13-121-0420	Physical Chemistry of Clusters
13-121-0422	Function Control at Complex Surfaces
13-121-0423	Surface Spectroscopy - Methods and Applications
13-121-0621	Modern Methods in Theoretical Chemistry
  3. Eight choice-obligatory modules to be chosen from the following modules or from number 2, if not already taken:

13-122-0111	Mass Spectrometry
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13-122-0321	Highlights in Natural Products Synthesis
13-122-0413	Surface Analysis of Solids
13-122-0511	Nanostructured Catalytic Systems
13-122-0521	Modern Concepts in Catalysis
13-121-1120	Protein Crystallography
11-122-1121	Receptor Biochemistry
13-121-1416	Recent Trends in Chemistry
12-122-1511	Basics of Interaction of Electromagnetic Radiation with Matter (Spectroscopy)
11-121-1112	Bioorganic Chemistry
13-121-0125	Methods and Procedures for Trace Analysis
13-122-0512	Sustainable Systems in Chemistry
13-121-1119	Separation techniques and advanced "-omics"-techniques
13-122-0122	Selected Topics of NMR Spectroscopy
13-121-0641	Computational Spectroscopy
13-121-0642	Computational Chemistry of Solids
13-121-0624	Advanced Topics in Theoretical Chemistry

In addition, modules may be chosen from set 2 that have not yet been brought in there.

4. Three elective internship modules worth 10 credit points each to be chosen from the following modules:

11-121-1116	Practical Course Bioorganic Chemistry
13-121-0215	Research Practical Course in Inorganic Chemistry
13-121-0216	Research Practical Course Organometallic Chemistry
13-121-0217	Research Practical Course in Inorganic Chemistry - Functional Materials
13-121-0218	Research Practical Course Supramolecular Coordination Chemistry
13-121-0313	Laboratory Course in Advanced Synthetic Organic Chemistry
13-121-0419	Research Practical Course on the Characterization of Gas Phase Clusters and Liquid Interfaces
13-121-0417	Research Practical Course in Reaction Kinetics and Structure Elucidation
13-121-0514	Research Practical Course in Heterogeneous Catalysis
13-121-0315	Laboratory Course Catalytic Methods in Organic Chemistry
13-121-0316	Laboratory Course Organic Chemistry / Chemical Biology

13-121-0418	Research Practical Course in Thin Film Growth, Phenomena and Analysis of Solid Interfaces
13-121-0122	Advanced Practical Course Molecular Spectroscopy
13-121-0123	Advanced Practical Course in Concentration Analysis
13-121-0126	Advanced Practical Course in Trace Analysis
13-121-0515	Research Practical Course Chemical Reaction Engineering
13-121-0631	Practical Course Theoretical Chemistry
13-121-1114	Practical Course Bioanalytics
13-121-1115	Practical Course Recombinant Protein Expression
13-121-1311	Advanced Practical Course Crystallography in Materials Science
13-121-1415	Practical Course in Environmental Chemistry
13-121-1422	Advanced Practical Course in Atmospheric Chemistry
09-121-1501	Laboratory Course in Modern Drug Discovery
13-121-0326	Laboratory Course in Biomimetic Catalysis
13-121-0424	Research practical course Reactions of molecular fragment ions and "ion soft-landing"
13-121-0632	Research practical course in Artificial Intelligence in theoretical Chemistry

The internships must be completed with three different professors of the Faculty of Chemistry and Mineralogy and in at least two different institutes.

5. Master`s thesis.

## **§ 26 Master's degree**

After passing the Master's examination, the faculty awards the academic degree of "Master of Science" (abbreviated M.Sc.).

## **§ 27 Effective date and release**

(1) These examination regulations come into force on April 1, 2023. They apply to all students enrolled in the Master's program Structural Chemistry and Spectroscopy.

- (2) It was adopted by the Faculty Council of the Faculty of Chemistry and Mineralogy on June 2022. These examination regulations were approved by the Rectorate on 2023. They are published in the Official Announcements of the University of Leipzig.
- (3) Modules already completed according to the old examination regulations are included in the calculation of the Master's grade according to § 11 para. 1 of examination regulations. Equivalence regulations for the transfer of modules already completed will be announced in electronic form.
- (4) If students have failed a module examination affected by these examination regulations prior to their coming into force, the examination must be repeated in accordance with the regulations of the examination regulations in the version valid at the time of registration for the module examination.

Leipzig,

Professor Dr. Inés Obergfell  
Rector

Explanations of placeholders in the attachments to examination regulations:

### **General explanation**

Placeholder:

These stand in the overview for student selection options. The scope of the modules to be selected (credit points) is indicated in each case.

Elective placeholders are to be filled from the attached catalog of elective modules in accordance with the provisions of the examination regulations.

### **Individual explanation**

Elective placeholders:

These placeholders stand for the elective modules of the program, which can be studied to the extent indicated there. Which elective modules are to be selected is regulated in the examination regulations.