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Subject Examination and Study Regulations for the Master's Program in Sustainable Resource Management at the Technical University of Munich

From 20 August 2015
as amended by the Articles of Association of June 22, 2016

On the basis of Article 13, Paragraph 1, Sentence 2 in conjunction with Article 58, Paragraph 1, Sentence 1, Article 61, Paragraph 2, Sentence 1 and Article 43, Paragraph 5 of the Bavarian University Act (BayHSchG), the Technische Universität München enacts the following statutes:

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(1) The subject examination and study regulations for the master's degree program in Sustainable Resource Management (FPSO) supplement the General Examination and Study Regulations for Bachelor's and Master's Degree Programs at the Technical University of Munich (APSO) of March 18, 2011, as amended. The APSO has priority.

(2) On the basis of the successful completion of the Master's examination, the academic degree "Master of Science" ("M.Sc.") is awarded. This academic degree may be awarded with the university suffix "(TUM)".

§ 35 Start of studies, standard period of study, ECTS

(1) The Master's program in Sustainable Resource Management at the Technical University of Munich generally begins in the winter semester.

(2) The number of credits required to obtain the Master's degree in the compulsory and elective areas is 80, spread over three semesters. In addition, six months (30 credits) are required to complete the Master's thesis in accordance with § 46. In addition, seven weeks (10 credits) of practical study must be completed. The scope of the examinations to be taken in the compulsory and elective areas in accordance with Appendix 1 in the Master's degree program in Sustainable Resource Management thus amounts to at least 120 credits. The standard period of study for the master's program is four semesters in total.

§ 36 Qualification requirements

(1) The qualification for the master’s degree program Sustainable Resource Management is proven by

1. a qualified bachelor's degree of at least six semesters obtained at a domestic or foreign university or a degree of at least equivalent value in engineering, natural sciences, economics or social sciences or comparable courses of study,

2. Adequate knowledge of the English language; students whose native language or language of education is not English must provide proof of this by means of a recognized language test such as the Test of English as a Foreign Language (TOEFL). language of education is not English, proof must be provided by a recognized language test such as the "Test of English as a Foreign Language" (TOEFL) (at least 88 points), the "International English Language Testing System" (IELTS) (at least 6.5 points) or the "Cambridge Main Suite of English Examinations"; alternatively, proof can be provided by a good grade in English (corresponding to at least 10 out of 15 points) in a domestic university entrance qualification; if examinations amounting to 60 credits in English-language examination modules were taken in the undergraduate degree program, this also provides proof of adequate knowledge of the English language,

3. passing the suitability procedure according to Annex 2.

(2) A qualified university degree within the meaning of Paragraph 1 exists if there are no significant differences with regard to the competencies (learning outcomes) acquired in the scientifically oriented relevant bachelor's degree programs of TUM or a comparable university mentioned in Paragraph 1 No. 1 and these correspond to the subject-specific requirements of the master's degree program.

(3) The commission for the aptitude procedure decides on the comparability of the study program, on the determination of the special aptitude as well as on the crediting of competences in the
examination of university degrees acquired at foreign universities under the consideration of Art. 63 Bavarian University Act.

§ 37
Modularization, module examination, courses, fields of study, language of instruction

(1) General regulations on modules and courses are laid down in §§ 6 and 8 APSO. In the event of deviations from module specifications, § 12 Para. 8 APSO shall apply.

(2) The study plan with the modules in the compulsory and elective areas is listed in Appendix 1.

(3) In the master's program Sustainable Resource Management, the following majors can be selected:
   • Environmental Economics and Policy
   • Management and Protection of Forest Ecosystems
   • Wildlife and Protected Area Management
   • Landscape Management
   • Renewable Resources
   • Climate, Air and Water
   • Soils and Soil Management
   • Material and Waste Management
   • Agricultural Land-Use Systems

(4) The language of instruction in the Master's program Sustainable Resource Management is English. Therefore, according to § 7 para. 4 no. 9 of the statutes of the Technical University of Munich on matriculation, re-registration, leave of absence and exmatriculation (ImmatS) of January 9, 2014, as amended, no proof of sufficient German language skills is required upon matriculation.

§ 37 a
Professional internship

(1) Practical vocational training must be completed as a course credit within the meaning of § 6 Para. 7 APSO. Its duration is 7 weeks (10 credits). It must be completed by the end of the sixth semester. Successful participation shall be confirmed by the companies and authorities in which the training took place and evidenced by internship reports.

(2) The board of examiners decides on the recognition of successfully completed vocational training or an equivalent achievement as practical vocational training.
§ 38 Examination deadlines, study progress monitoring, missed deadlines

(1) Examination deadlines, study progress monitoring and missed deadlines are regulated in § 10 APSO.

(2) At least one of the module examinations from the Fundamentals listed in Appendix 1 must be successfully completed by the end of the second semester. If the deadline is exceeded, § 10 para. 5 APSO shall apply.

§ 39 Examination board

The body responsible for decisions in examination matters according to § 29 APSO is the Master’s Examination Board Sustainable Resource Management of the Faculty of Forest Sciences and Resource Management.

§ 40 Crediting of periods of study, study and examination achievements

The crediting of study periods, study and examination achievements is regulated by § 16 APSO.

§ 41 Course-related examination procedure, forms of examination

(1) Possible forms of examination according to § 12 and 13 APSO are, in addition to written examinations and oral examinations in this study program, in particular laboratory performances, exercise performances (if applicable, tests), reports, project work, presentations, learning portfolios, scientific papers and the examination course.

a) An examination is written work under supervision with the aim of identifying problems in a limited time using the specified methods and defined aids and finding ways of solving them and, if necessary, being able to apply them. The duration of written examinations is regulated in § 12 Para. 7 APSO.

b) Laboratory services include, depending on the discipline, experiments, measurements, work in the field, field exercises, etc. with the aim of carrying out, evaluating and gaining knowledge. Components can be e.g.: the description of the processes and the respective theoretical basis incl. literature study, the preparation and practical execution, if necessary necessary calculations, their documentation and evaluation as well as the interpretation of the results with regard to the knowledge to be gained. The laboratory performance can be supplemented by a presentation in order to test the communicative competence in presenting scientific topics to an audience. The specific components of the respective laboratory performance and the competencies to be tested with it are listed in the module description.

c) The exercise performance (if applicable, tests) is the processing of given tasks (e.g. mathematical problems, programming tasks, modeling, etc.) with the aim of applying theoretical content to solve application-related problems. It serves the verification of factual and detailed knowledge as well as its application. The exercise performance can be carried out, among other things, in writing, orally or electronically. Possible forms are, for example, homework, exercise sheets, programming exercises, (e-)tests, tasks in the context of
university internships, etc. The concrete components of the respective exercise performance and the competencies to be tested are listed in the module description.

d) A report is a written review and summary of a learning process with the aim of reproducing what has been learned in a structured manner and analyzing the results in the context of a module. The report should prove that the essential aspects have been recorded and can be reproduced in writing. Possible report forms are, for example, field trip reports, internship reports, work reports, etc. The written report can be supplemented by a presentation in order to test the communicative competence in presenting the contents to an audience.

e) In the context of a project work, a project assignment is to be achieved as a defined goal in a defined time and with the use of suitable instruments in several phases (initiation, problem definition, role allocation, idea generation, criteria development, decision, implementation, presentation, written evaluation). In addition, a presentation can be part of the project work in order to test the communicative competence in presenting scientific topics to an audience. The concrete components of the respective project work and the competencies to be tested with it are listed in the module description. The project work is also possible in the form of group work. In this case, it should be demonstrated that tasks can be solved in a team. The contribution to be assessed as examination performance in each case must be clearly individually recognizable and assessable. This also applies to the individual contribution to the group result.

f) The scientific paper is a written performance in which a challenging scientific or scientific-application-oriented question is independently processed using the scientific methods of the respective discipline. It should be demonstrated that a question corresponding to the learning outcomes of the respective module can be completely processed in compliance with the guidelines for scientific work - from analysis to conception to implementation. Possible forms, which differ in their respective level of demand, are e.g. thesis paper, abstract, essay, study paper, seminar paper, etc. The scientific elaboration can be accompanied by a presentation and, if necessary, a colloquium in order to test the communicative competence of presenting scientific topics in front of an audience. The concrete components of the respective scientific elaboration and the competences to be examined with it are listed in the module description.

g) A presentation is a systematic, structured and visually supported oral presentation using suitable media (such as beamers, transparencies, posters, videos), in which specific topics or results are illustrated and summarized and complex issues are reduced to their essential core. The presentation is intended to demonstrate the ability to work on a specific topic in a given time in such a way that it can be presented to an audience in a clear, concise and comprehensible manner. In addition, it should be demonstrated that questions, suggestions or discussion points of the audience can be dealt with in an informed manner in relation to the respective subject area. The presentation may be supplemented by a short written preparation. The presentation may be given individually or in groups. The contribution to be assessed as an examination performance must be clearly recognizable and assessable individually. This also applies to the individual contribution to the group result.

h) An oral examination is a time-limited examination discussion on specific topics and concrete questions to be answered. In oral examinations it should be demonstrated that the qualification objectives documented in the module descriptions have been achieved and that the interrelationships of the examination area have been recognized and special questions can be placed in these interrelationships. The oral examination can be conducted as an individual examination or as a group examination. The duration of the examination is regulated in § 13 Para. 2 APSO.

i) A learning portfolio is a written presentation of one’s own work, selected according to previously defined criteria, with which learning progress and performance status at a certain
point in time and in relation to a defined content is to be demonstrated. The selection of the work, its relation to one's own learning progress and its significance for the achievement of the qualification goals must be justified. The learning portfolio should demonstrate that responsibility has been taken for the learning process and that the qualification objectives documented in the module description have been achieved. Depending on the module description, the components of successful self-learning checks of the learning portfolio may include, in particular, work with application relevance, websites, weblogs, bibliographies, analyses, thesis papers as well as graphic presentations of an issue or a question. The concrete components of the respective learning portfolio and the competencies to be tested with it are listed in the module description.

j) In the context of an examination course, several examination elements are to be completed within one examination performance. In contrast to a partial module examination, the examination performance is examined in an organizationally (spatially or temporally) coherent manner. Examination elements are several different examination formats which in their entirety cover the complete competence profile of the module. Examination elements can in particular also be examination formats according to letters a) to i). The total duration of the examination shall be specified in the module catalog; the examination form and duration of the individual examination elements shall be specified in the module description.

(2) The module examinations are usually taken during the course of study. The type and duration of a module examination are specified in Annex 1. In the event of deviations from these stipulations, § 12 Para. 8 APSO must be observed. For the evaluation of the module examination, § 17 APSO shall apply. The grade weights of partial module examinations correspond to the weighting factors assigned to them in Annex 1.

(3) If Appendix 1 specifies for a module examination that it is written or oral, the examiner shall announce the binding type of examination to the students in an appropriate manner no later than the beginning of the lecture.

§ 42
Registration and admission to the Master's examination

(1) Upon enrollment in the Sustainable Resource Management master's program, students are considered admitted to the module examinations of the master's degree.

(2) Registration for a module examination in the compulsory and elective area is governed by § 15 para. 1 APSO. Registration for a corresponding repeat examination in a failed compulsory/elective module is governed by § 15 para. 2 APSO.

§ 43
Scope of the Master's examination

(1) The master's examination includes:

1. the module examinations in the corresponding modules according to par. 2,
2. the Master's Thesis according to § 46 as well as
3. the academic achievements listed in § 45.

(2) The module examinations are listed in Appendix 1. There must be 35 credits in the compulsory modules, at least 45 credits in elective modules. When choosing the modules, § 8 para. 2 APSO is to be observed.
§ 44
Repetition, failure of examinations

(1) The repetition of examinations is regulated in § 24 APSO.

(2) The failure of examinations is regulated by § 23 APSO.

§ 45
Study achievements

In addition to the examinations mentioned in § 43 Para. 1, the successful completion of study achievements in the module Professional Internship in the amount of 10 credits according to § 37 a must be proven.

§ 45 a
Multiple choice method

The implementation of multiple-choice procedures is regulated in § 12 a APSO.

§ 46
Master's Thesis

(1) Pursuant to § 18 APSO, students must prepare a Master’s thesis as part of the Master’s examination. Master’s Thesis can be issued and supervised by expert examiners of the Technical University of Munich (topic setter).

(2) The Master’s Thesis should be started after successful completion of all module examinations.

(3) The time from the issue to the delivery of the Master’s Thesis may not exceed six months. The Master’s Thesis shall be deemed to have been taken and not passed if it is not delivered in due time without valid reasons recognized in accordance with § 10 Para. 7 APSO. The Master’s Thesis shall be written in English.

(4) The completion of the Master’s Thesis consists of a "Proposal" (course work) and a written paper.

(5) If the Master’s Thesis has not been evaluated with at least "sufficient" (4.0), it can be repeated once with a new topic. It must be re-registered no later than six weeks after the notification of the result.
§ 47

Passing and evaluation of the Master's examination

(1) The master's examination is passed if all examinations to be taken within the framework of the master's examination according to § 43 Para. 1 have been passed and a point account balance of at least 120 credits has been achieved.

(2) The module grade is calculated according to § 17 APSO. The overall grade of the Master's examination is calculated as the weighted grade average of the modules according to § 43 para. 2 and the Master's Thesis. The grade weights of the individual modules correspond to the assigned credits. The overall grade is expressed by the predicate according to § 17 APSO.

§ 48

Certificate, Diploma Supplement

If the Master's examination is passed, a certificate, a certificate and a Diploma Supplement with a Transcript of Records shall be issued in accordance with § 25 Para. 1 and § 26 APSO. The date of the certificate shall be the date on which all examination and study achievements have been completed.

§ 49

Entry into force

(1) These regulations come into force on October 1, 2015. It applies to all students who begin their studies at the Technical University of Munich from the winter semester 2015/16 onwards.

(2) The subject examination and study regulations for the master's degree program in Sustainable Resource Management at Technische Universität München dated March 6, 2009, last amended by the statutes dated November 3, 2014, shall expire at the same time. Students who have already commenced their subject studies at the Technische Universität before the winter semester 2015/16 shall complete their studies in accordance with the statutes pursuant to sentence 1. They may change to these subject examination and study regulations upon application.

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1 This provision relates to the entry into force of the Articles of Association in the original version of August 20, 2015. The date of entry into force of the amendments is specified in the amending Articles of Association.
### Appendix 1: Examination modules

<table>
<thead>
<tr>
<th>No.</th>
<th>Module name</th>
<th>Teaching form</th>
<th>Sem.</th>
<th>SWS</th>
<th>Credits</th>
<th>Exam type</th>
<th>Exam duration</th>
<th>Teaching-language</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>V Ü S</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td>WZ1821 Natural Resources- Traits, Management and Theory of Sustainability</td>
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<td></td>
<td>WZ1822 Introduction to Economics and Business Ethics</td>
<td>V</td>
<td>1</td>
<td>4</td>
<td>5</td>
<td>Written exam</td>
<td>90 min</td>
<td>English</td>
</tr>
<tr>
<td></td>
<td>WZ1823 Inventory Methods, Statistics and GIS</td>
<td>V Ü</td>
<td>1</td>
<td>4 V + 1 Ü</td>
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<td>WZ2712 Project Management, Public Relations and CCC</td>
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</tr>
<tr>
<td></td>
<td>WZ2713 Methods of Scientific Communication</td>
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<td>Scientific elaboration</td>
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<td>English</td>
</tr>
<tr>
<td></td>
<td>WZ1824 System Analysis and Introduction to Ecology</td>
<td>V</td>
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<td></td>
<td></td>
<td>35</td>
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</table>

1 General Education Subject: 5 credits from the course offerings of TUM, Carl von Linde Akademie, Unternehmer TUM and Sprachenzentrum (except English courses) have to be taken in the module - modules from the course offerings of the Sustainable Resource Management program cannot be taken.

### Master's Thesis

<table>
<thead>
<tr>
<th>No.</th>
<th>Module name</th>
<th>V Ü S</th>
<th>Sem.</th>
<th>SWS</th>
<th>Credits</th>
<th>Exam type</th>
<th>Exam duration</th>
<th>Teaching-language</th>
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<td>Scientific paper + course work</td>
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</table>
### Electives-Intensive Areas:
From the following list, 2 areas of specialization à 15 credits (30 credits in total) must be completed:

<table>
<thead>
<tr>
<th>No.</th>
<th>Module name</th>
<th>Teaching form</th>
<th>Sem.</th>
<th>SWS</th>
<th>Credits</th>
<th>Exam type</th>
<th>Exam duration</th>
<th>Teaching language</th>
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<td>Environmental and Natural Resource Economics</td>
<td>V Ü</td>
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<td>4</td>
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<td></td>
<td>International Environmental Policy and Conflict Resolution</td>
<td>V</td>
<td>3</td>
<td>3</td>
<td>5</td>
<td>Learning portfolio</td>
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<td>English</td>
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<td>European Environmental Law and Environmental Assessment</td>
<td>V S</td>
<td>3</td>
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<td>2</td>
<td>Forest Management</td>
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<td>Oral examination</td>
<td>30 min</td>
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<td>3</td>
<td>Protected Areas Biodiversity and Management</td>
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<td>4</td>
<td>WZ4201</td>
<td>Vegetation Ecology and GIS</td>
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<td>Landscape Planning</td>
<td>V S</td>
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<td></td>
<td>WZ2719</td>
<td>Remote Sensing and Image Processing</td>
<td>S Ü</td>
<td>3</td>
<td>2.5 S + 2.5 Ü</td>
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<td>Landscape Management - Application Study</td>
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<td>5</td>
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<td>Renewable Resources</td>
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<td>V Ü</td>
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<td>WZ2731</td>
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<td>Oral examination</td>
<td>30 min</td>
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<td>Climate, Air and Water</td>
<td>WZ2722</td>
<td>Mountain Catchments under Changing Climate</td>
<td>V Ü</td>
<td>2</td>
<td>2 V + 3 Ü</td>
<td>5</td>
<td>Scientific paper + written exam 6,5 : 3,5</td>
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<td></td>
<td>WZ2732</td>
<td>Environmental Monitoring and Data Analysis</td>
<td>V S Ü</td>
<td>3</td>
<td>1 V + 2 S + 2 Ü</td>
<td>5</td>
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<td>WZ2730</td>
<td>Climate Change - Science, Impacts and Adaptation, Mitigation</td>
<td>V S</td>
<td>3</td>
<td>2 V + 2 S</td>
<td>5</td>
<td>Oral examination</td>
<td>30 min</td>
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<td>Area of specialization</td>
<td>No.</td>
<td>Module name</td>
<td>Teaching form</td>
<td>Sem.</td>
<td>SWS</td>
<td>Credits</td>
<td>Exam type</td>
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<td>7</td>
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<td>Material and Waste Management</td>
<td>V</td>
<td>2</td>
<td>3</td>
<td>5</td>
<td>Scientific elaboration</td>
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<td>WZ4207 Waste and Waste Water Treatment</td>
<td>V</td>
<td>2</td>
<td>4</td>
<td>5</td>
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<td>WZ2723 Utilization and Treatment of Special Materials and Waste</td>
<td>S</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>Presentation</td>
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<td>WZ2724 Emission Control in Land-Use and Animal Husbandry</td>
<td>V</td>
<td>3</td>
<td>3</td>
<td>5</td>
<td>Oral or written</td>
<td>20 min 90 min</td>
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<td></td>
<td>Agricultural Land-Use Systems</td>
<td>V</td>
<td>2</td>
<td>4</td>
<td>5</td>
<td>Oral examination</td>
<td>30 min</td>
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<td>WZ2725 Land-Use Systems from Local and Global Perspectives</td>
<td>V</td>
<td>2</td>
<td>4</td>
<td>5</td>
<td>Report</td>
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<td>WZ2726 Assessment of Sustainability in Agriculture - Theory and Case Studies</td>
<td>V</td>
<td>2</td>
<td>4</td>
<td>5</td>
<td>Report</td>
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<td>WZ2727 Sustainability of Food Chains</td>
<td>S</td>
<td>3</td>
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<td>WZ2728 Sustainable Land-Use Management</td>
<td>V</td>
<td>3</td>
<td>4</td>
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<td>Presentation</td>
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<td>9</td>
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<td>Soils and Soil Management</td>
<td>V Ü</td>
<td>2</td>
<td>2 V + 3 Ü</td>
<td>5</td>
<td>Written exam + laboratory performance (SL)</td>
<td>60 min</td>
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<td>WZ2735 World Soil Resources</td>
<td>V Ü</td>
<td>2</td>
<td>2 V + 3 Ü</td>
<td>5</td>
<td>Oral examination + laboratory performance (SL)</td>
<td>30 min</td>
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<td>WZ2734 Soil Protection</td>
<td>V</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>Oral examination</td>
<td>30 min</td>
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<td></td>
<td>WZ2736 Analytical Characterization of Soil Resources</td>
<td>V Ü</td>
<td>3</td>
<td>1 V + 3 Ü</td>
<td>5</td>
<td>Scientific elaboration</td>
<td>-</td>
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Electives:
In addition, further elective modules amounting to 15 credits from the list of elective module specialization areas must be completed; only those modules not already selected in the elective module specialization area can be selected. Furthermore, the following module can be brought in as an elective:

| WZ2729 | Human Resources and Social Aspects | S | 2 | 4 | 5 | Scientific elaboration | English |

The examination board continuously updates the subject catalog of the elective modules. Changes will be announced on the website of the examination board at the beginning of the semester at the latest.

Course Credits: A professional internship of 10 credits must be completed as course work:

| WZ4061 | Internship | 2 and 3 | 10 | Report |

Explanations: Sem. = semester; SWS = semester hours per week; V = lecture; Ü = exercise; S = seminar;
ANNEX 2: Suitability procedure

Qualification procedure for the Master's program in Sustainable Resource Management at the Technical University of Munich

1. Purpose of the procedure

In addition to the requirements of § 36 para. 1 nos. 1 and 2, qualification for the master's degree program in Sustainable Resource Management requires proof of suitability in accordance with § 36 para. 1 no. 3 in accordance with the following regulations. The special qualifications and skills of the applicants should correspond to the professional field of sustainable resource management. Individual suitability parameters are:

1.1 Ability to work in a scientific or basic and methodological manner,

1.2 Existing subject knowledge relevant to the content of the program from the first degree in engineering, natural sciences, economics and/or social sciences.

2. Suitability testing procedure

2.1 The eligibility review process is conducted annually by the Department of Forestry and Resource Management.

2.2 Applications for admission to the procedure together with the documents according to 2.3.1 up to and including 2.3.5 as well as § 36 para. 1 no. 2 for the winter semester must be submitted to Technische Universität München in the online application procedure by May 31 (cut-off deadline). Documents according to 2.3.1 to 2.3.5 as well as § 36 para. 1 no. 2, which cannot be submitted within the deadline according to sentence 1 for reasons for which the applicant is not responsible, can be submitted later for the winter semester until August 15 (cut-off deadline). Certificate and certificate must be submitted by five weeks after the start of lectures.

2.3 The application must be accompanied by:

2.3.1 proof of a university degree in accordance with § 36; if this proof is not yet available at the time of application, complete proof of study and examination achievements in the first degree program (Transcript of Records) to the extent of 180 credits must be enclosed,

2.3.2 a curriculum vitae in tabular form,

2.3.3 a written justification in English of 400 words for the choice of the study program Sustainable Resource Management at the Technical University of Munich, in which the applicants explain which specific talents and interests make them particularly suitable for the Master's program Sustainable Resource Management at the Technical University of Munich; the special willingness to perform is to be substantiated, for example, by explanations of course-specific vocational training, internships, stays abroad or subject-related further education in the Bachelor's course that has gone beyond attendance times and compulsory courses; this is to be substantiated, if applicable, by attachments. This is to be documented by attachments, if necessary,
2.3.4 a scientific essay of 800 words written in English; the chairperson of the committee may choose one or more topics; this must be made known to the applicants no later than May 15,

2.3.5 an assurance that the justification for the choice of the course of study and the essay were prepared independently and without outside help, and that the thoughts taken from outside sources are marked as such.

3. Commission on the suitability procedure

3.1 The suitability procedure is carried out by a commission, which usually consists of the program director responsible for the master’s program Sustainable Resource Management, at least two university professors and at least one research assistant. At least half of the commission members must be university professors. A student representative shall participate in the commission in an advisory capacity.

3.2 The members are appointed by the Faculty Council in consultation with the Dean of Studies. At least one university lecturer is appointed as a deputy member of the Commission. The commission is usually chaired by the dean of studies. Article 41 of the BayHSchG, as amended, applies to the course of business.

4. Admission to the qualification procedure

4.1 Admission to the qualification procedure requires that the documents mentioned in No. 2.3 are submitted in due time and in full.

4.2 Those who meet the necessary requirements will be examined in the suitability procedure in accordance with No. 5.

4.3 Those who are not admitted will receive a rejection notice with reasons and instructions on how to appeal.

5. Implementation of the suitability procedure

5.1 First stage of the implementation of the suitability procedure

5.1.1 On the basis of the written application documents required according to No. 2.3, the commission shall assess whether the applicants have the suitability for the study program according to No. 1 (first stage of the implementation of the suitability procedure). The commission shall evaluate the submitted documents on a scale of 0 to 100 points, whereby 0 is the worst and 100 the best result to be achieved:

a) Final grade

Two points are awarded for each tenth grade that the relevant university degree is better than 3.7. The maximum number of points is 54. Negative points are not awarded. For foreign degrees, the grade converted using the Bavarian formula is used.

b) Justification letter

The written statement of reasons is evaluated by two commission members on a scale of 0 - 16 points. The content of the letter of justification is evaluated according to the following criteria:

1. the connection between personal interests and contents of the study program can be presented in a well-structured way,

2. the special suitability and motivation for the Master's program can be convincingly substantiated by arguments and meaningful examples, such as
professional training specific to the program, internships, stays abroad (cf. No. 2.3.3),

3. key points of the justification are highlighted in appropriate language and substantiated factually.

The commission members independently rate each of the three focal points on the point scale from 0 to 16, whereby 0 is the worst and 16 the best result to be achieved. The individual score of each member is the arithmetic mean of the scores of the equally weighted three focal points. The score of the letter of justification results from the arithmetic mean of the individual scores of the commission members. Non-vanishing decimal places are to be rounded up.

c) Essay

The essay should be designed as a scientific essay and will be evaluated by two commission members on a scale of 0 - 30 points. The content will be evaluated according to the following criteria:

1. professional substance and scientific structure,
2. Consistency of reasoning,
3. freedom from errors and technical language competence in English.

The commission members independently rate each of the three focal points on the point scale from 0 to 30, whereby 0 is the worst and 30 the best result to be achieved. The individual score of each member is the arithmetic mean of the scores of the equally weighted three focal points. The score of the essay is the arithmetic mean of the individual scores of the commission members. Non-vanishing decimal places are to be rounded up.

5.1.2 The score for the first stage is the sum of the individual scores. Digits that do not disappear are to be rounded up.

5.1.3 Those who have achieved at least 70 points will receive a confirmation that they have passed the eligibility process.

5.1.4 Unsuitable applicants with a total score of less than 60 points shall receive a notice of rejection with reasons and instructions on how to appeal, which must be signed by the head of the university. The authority to sign may be delegated. Applicants who are entitled to compensation for disadvantages due to disability, chronic or long-term illness shall, upon application and in deviation from No. 5.1.1 to 5.1.3, receive an invitation to the second stage of the aptitude test instead of a direct rejection if they would have received direct admission or admission to the second stage if they had achieved the highest grade in their final grade. The relevant evidence must be enclosed with the application.

5.2. Second stage of the implementation of the suitability procedure

5.2.1 The remaining applicants are invited to a selection interview. In the second stage of the aptitude test, the qualification acquired in the first degree program and the result of the selection interview will be evaluated. The date of the selection interview shall be announced at least one week in advance. Time slots for any selection interviews to be held must be set before the application deadline. The date set for the interview must be observed by the applicants. Anyone who is prevented from attending the selection interview for reasons for which he or she is not responsible may, upon justified application, be given a subsequent appointment no later than two weeks before the start of lectures.
5.2.2 The selection interview must be conducted individually for the applicants. The interview shall last a minimum of 20 minutes and a maximum of 30 minutes per applicant. The content of the interview shall cover the following main topics:

   - Why did the applicant choose the Sustainable Resource Management master's degree program?
   - Why did the applicant decide to study at a German university (for German applicants: Why did the applicant choose an international degree program in English)?
   - What are the applicant’s career goals after or with the degree program, or what prospects does the applicant see after completing his or her master’s degree at TUM?
   - Has the applicant been involved with sustainable resource management?

2. Suitability parameters according to 1. sentence 3
   - Presentation of previous expertise: Questions from engineering, natural sciences, economics, and/or social sciences,
   - Explanation of a scientific work (e.g. the thesis) of the first degree.

3. Communication skills in English language
   - The candidate is able to express him/herself clearly in English and can explain subject-relevant topics precisely,
   - Statements are convincingly substantiated by arguments and meaningful examples,
   - Questions concerning the first degree are justified in a terminologically exact and comprehensible manner.

Subject matter can also be the documents submitted according to 2.3. Scientific knowledge that is to be imparted only in the master's program Sustainable Resource Management does not decide. With the consent of the applicants, a member of the student group may be admitted to the audience.

5.2.3 The selection interview is conducted by at least two members of the commission. The commission members independently evaluate each of the three focal points on the point scale from 0 to 46, whereby 0 is the worst and 46 the best result to be achieved. The individual score of each member shall be the arithmetic mean of the scores of the equally weighted three focal points. The score of the selection interview results from the arithmetic mean of the individual scores of the commission members. Non-vanishing decimal places shall be rounded up.

5.2.4 The total number of points in the second stage is the sum of the points from 5.2.3 and the points from 5.1.1 a) Final grade. Whoever has achieved 60 or more points is classified as suitable.

5.2.5 The result of the suitability procedure determined by the commission shall be communicated in writing. The notification shall be signed by the management of the university. The authority to sign may be delegated. A notice of rejection shall be accompanied by reasons and instructions on how to appeal.

5.2.6 Admissions to the Sustainable Resource Management master’s degree program apply to all subsequent applications to this program.
6. **Minutes**

A record must be made of the course of the suitability procedure, showing the date, duration and place of the suitability procedure, the names of the commission members, the names of the applicants and the assessment of the commission members as well as the overall result. The minutes must show the main reasons for and topics of the interview with the applicants; the main reasons and topics may be listed in brief.

7. **Repetition**

Students who have not provided proof of eligibility for the Sustainable Resource Management master’s degree program may re-apply once for the eligibility process.