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**Academic and Examination Regulations for the Master's Degree Program
in
Biomass Technology
conducted jointly by the Technical University of Munich (TUM) and the
University of Natural Resources and Life Sciences, Vienna (BOKU)**

dated 25 October 2017

Engrossed version in accordance with the Second Amending Statute of 4 April 2020

In accordance with Art. 13(1) Sentence 2 in conjunction with Art. 58(1) Sentence 1, Art. 61(2) Sentence 1 and Art. 43(5) of the Bavarian Higher Education Act [*Bayerisches Hochschulgesetz (BayHSchG)*] the Technical University of Munich issues the following Regulations:

Preamble

¹The Master's Degree Program in Biomass Technology is a joint degree program of the Technical University of Munich Campus Straubing for Biotechnology and Sustainability, Germany, and the University of Natural Resources and Life Sciences, Vienna, Austria.

²The Master's Degree Program in Biomass Technology is an interdisciplinary master's degree program for qualified students with bachelor's degrees in the natural sciences and engineering. ³It offers the possibility of a broad education in the field of biomass production, use and utilization.

⁴The degree program is directed toward students with very high achievement potential, dedication and a broad area of interests. ⁵The interdisciplinary courses are important elements of the degree program.

⁶The goal of the Master's Degree Program in Biomass Technology is to cover the value-added chain from the sustainable production of renewable resources to the technological use and utilization of biomass. ⁷The term biomass is understood as the material mass of all living organisms (animals, plants, algae, fungi and bacteria) or parts thereof. ⁸The interdisciplinary course of studies teaches the basic and scientific content of the relevant chemical-material, material and energy technologies for the processing and utilization of biomass. ⁹In addition, economic issues, ecological and sustainability aspects for the production as well as the use and utilization of biomass production are also dealt with.

¹⁰The close ties between the basic and technology-oriented research and teaching of the Technical University of Munich and the University of Natural Resources and Life Sciences, Vienna results in an optimally coordinated range of courses for the students.

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§ 34 Applicability, Academic Titles

- (1) ¹The Academic and Examination Regulations for the Master's Degree Program in Biomass Technology conducted jointly by the Technical University of Munich and the University of Natural Resources and Life Sciences, Vienna complements the General Academic and Examination Regulations for Bachelor's and Master's Degree Programs at the Technical University of Munich (APSO) dated 18 March 2011. ²The APSO has precedence.
- (2) Upon successful completion of the master's examination, the Technical University of Munich and the University of Natural Resources and Life Sciences, Vienna jointly award the degree "Master of Science" ("M.Sc.").

§ 35 Commencement of Studies, Standard Duration of Study, ECTS

- (1) ¹Students may commence studying in the Master's Degree Program in Biomass Technology at the Technical University of Munich and the University of Natural Resources and Life Sciences, Vienna both in the winter and in the summer semester. ²Students may study either at the Technical University of Munich or at the University of Natural Resources and Life Sciences, Vienna.
- (2) ¹90 credits in required and elective subjects are needed to obtain the master's degree (70 weekly hours per semester) spread over three semesters, whereby students must successfully complete at least one semester each at the Technical University of Munich and at the University of Natural Resources and Life Sciences, Vienna. ²In addition, a maximum of six months are given for completion of the master's thesis in accordance with § 46 (30 credits). ³The number of coursework units and examinations in required and elective subjects to be completed in the joint Master's Degree Program in Biomass Technology thus totals at least 120 credits in accordance with the Appendix Examination Modules. ⁴The standard duration of study for the master's program will be a total of four semesters.

§ 36 Eligibility Requirements

- (1) Eligibility for the Master's Program in Biomass Technology is demonstrated by
 1. a qualified bachelor's degree obtained after a program of at least six semesters from a domestic or foreign university, or an at least equivalent degree in a degree program in the natural, engineering, agricultural, silvicultural sciences or a comparable degree program,
 2. Sufficient knowledge of the German language in accordance with § 7(4) Number 9 of the Regulations of the Technical University of Munich on Enrollment, Re-registration, Leave of Absence, and Disenrollment (ImmatS) dated 9 January 2014 as last amended or adequate knowledge of the English language; students whose language of instruction is not English must demonstrate proficiency through an acknowledged language test such as the Test of English as a Foreign Language (TOEFL) (with a minimum of 88 points), the International English Language Testing System (IELTS) (with a minimum of 6.5 points), or the Cambridge Main Suite of English Examinations; if, in the undergraduate program, 10 credits were obtained for examinations administered in English-language examination modules, or the thesis was written in English, adequate proficiency in English is deemed proven.
 3. passing the Aptitude Assessment in accordance with Appendix 2.
- (2) A degree is considered a qualified degree within the meaning of Subsection 1 No. 1 if there are no significant differences with regard to the competencies (learning outcomes) acquired in the scholarly oriented bachelor's programs at the Technical University of Munich and the University of Natural Resources and Life Sciences, Vienna or in comparable degrees specified in

Subsection 1, No. 1, and if these outcomes correspond to the subject-specific requirements of the joint master's degree program.

- (3) ¹The required modules of the bachelor's degree programs at the Technical University of Munich are used as benchmarks for the determination in accordance with Subsection 2. ²If examination requirements are determined to be missing, the Aptitude Assessment Commission can require, in accordance with Appendix 2 No. 3, that these examinations are to be completed as additional fundamentals exams as specified in Appendix 2 No. 5.1.3 to demonstrate the qualification defined in Subsection 1. ³The applicants to university are to be informed of this after the review of their application documents in the first stage of the aptitude assessment.
- (4) The comparability of programs, subject-specific aptitude, as well as the equivalence of competencies in case of examinations completed at a foreign university other than the University of Natural Resources and Life Sciences, Vienna will be decided upon by the Aptitude Assessment Commission in compliance with Art. 63 of the Bavarian Higher Education Act [*BayHSchG*].

§ 37

Modular Structure, Module Examination, Courses, Areas of Specialization, Language of Instruction

- (1) ¹provisions concerning modules and courses are set forth in §§ 6 and 8 of the APSO. ²For any changes to the stipulated module provisions, § 12(8) of the APSO applies.
- (2) The curriculum listing the required and elective modules is included in Appendix 1.
- (3) ¹Working with a mentor, students must prepare an individual curriculum totaling at least 42 credits. ²The relevant modules are to be selected from Appendix 1. ³Every person of the Technical University of Munich Campus Straubing for Biotechnology and Sustainability of the Technical University of Munich and the University of Natural Resources and Life Sciences, Vienna who is eligible to be an examiner in accordance with the University Examiners Act can be appointed a mentor.
- (4) ¹The following specialties can be selected in the Master's Degree Program in Biomass Technology:
- Cultivation of Renewable Resources
 - Energetic Use of Biomass
 - Chemical and Material Use of Biomass
 - Economics of Renewable Resources
- ²A specialty is considered selected if a student has completed at least 30 credits from one of the above-mentioned specialties and has also prepared his/her Master's Thesis in that specialty.
- ³If a specialty has been completed successfully, it will be mentioned in the transcript of records.
- ⁴If the criteria mentioned in Sentence 2 are not fulfilled, then no specialty will be considered selected, and no specialty will be mentioned in the transcript of records.
- (5) ¹In addition to German-language modules, a sufficient number of modules are offered in English. ²For this reason, there is the opportunity to complete the Master's Degree Program exclusively in English. ³Students who have not verified their knowledge of German in the application process will be conditionally admitted with the stipulation that they complete at least one module in which they acquire integrative knowledge of German by the end of the second semester of enrollment in the degree program. ⁴The offer will be announced by the Examination Board accordingly. ⁵Optional achievements completed in extracurricular courses, e.g. German courses offered by the TUM Language Center, will also be recognized. ⁶The language of the required modules is indicated in Appendix 1.

§ 38

Examination Deadlines, Academic Progress Checks, Failure to Meet Deadlines

- (1) Examination deadlines, academic progress checks, and failure to meet deadlines are governed by § 10 of the APSO.
- (2) ¹At least one of the module examinations from the core subjects (required modules) listed in Appendix 1 must be successfully completed by the end of the second semester. ²In the event of failure to comply with this deadline § 10(5) of the APSO will apply.

§ 39 Examination Board

¹In accordance with § 29 of the APSO, the board responsible for decisions concerning examination matters is the Master's Examination Board of the Degree Program in Biomass Technology (Joint Management Committee). ²The Master's Examination Board (Examination Board) consists of six members. ³Its membership comprises three representatives each from

- a) the TUM Campus Straubing for Biotechnology and Sustainability,
- b) the University of Natural Resources and Life Sciences, Vienna.

. ⁴The Chair is appointed by the Technical University of Munich, and the Deputy Chair by the University of Natural Resources and Life Sciences, Vienna.

§ 40

Recognition of Periods of Study, Coursework and Examination Results

The recognition of periods of study, coursework, and examination results is governed by § 16 of the APSO.

§ 41

Continuous Assessment Procedure, Types of Assessment

- (1) In addition to written examinations (*Klausuren*) and oral examinations, types of assessment in accordance with § 12 and § 13 of the APSO in this degree program may include (but are not limited to) laboratory assignments, practical credit requirements (tests, where applicable), reports, project work, presentations, and research papers.
 - a) ¹A ***Klausur*** is a supervised written examination. In these written examinations, students are expected to demonstrate, within a limited amount of time and using predefined methods and resources, their ability to identify problems, find solution strategies and, if required, implement them. ²The duration of *Klausuren* is provided for in § 12(7) of the APSO.
 - b) ¹Depending on the discipline, **laboratory assignments** may include experiments, measurements, field work, field exercises, etc. with the goal of students conducting such work, evaluating results and gaining knowledge. ²These may consist of, for example, process descriptions and the underlying theoretical principles including studying the relevant literature; preparation and practical implementation; calculations, if required, and documentation, evaluation, and interpretation of the results in the context of the knowledge to be gained. ³Laboratory assignments may be complemented by presentations designed to demonstrate a student's communication competency in presenting scholarly work to an audience. ⁴Details of each laboratory assignment and the competencies to be assessed in each examination are set out in the module descriptions.

- c) **1Practical credit requirements (tests where applicable)** involve students completing assigned tasks (for example, solving mathematical problems, writing computer programs, preparing models) using theoretical knowledge to solve application-oriented problems. **2Practical credit requirements** are designed to assess a student's factual and detailed knowledge and its application. **3Practical credit requirements** may be carried out in writing, orally, or electronically. **4They** may be in the form of homework assignments, practice sheets, programming exercises, (e-)tests, tasks assigned within a university internship program, etc. **5Details** of each practical credit requirement and the competencies to be assessed in each examination are set out in the module descriptions.
- d) **1A report** is a written record and summary of a learning process for the purpose of presenting the acquired knowledge in a structured way and analyzing the results in the context of a module. **2Students** are expected to demonstrate that they have understood all essential aspects and are able to present them in writing. **3Reports** may include excursion reports, internship reports, work reports, etc. **4The written report** may be complemented by a presentation for the purpose of assessing the student's communication competency in presenting scholarly work to an audience.
- e) **1Project work** is designed to reach, in several phases (initiation, problem definition, role assignment, idea generation, criteria development, decision, implementation, presentation, written evaluation), the defined objective of a project assignment within a given period of time and using suitable instruments. **2In addition**, project work may include a presentation in order to assess a student's communication competency in presenting scholarly work to an audience. **3Details** of each project work and the competencies to be assessed in each examination are set out in the module descriptions. **4Project work** may also be completed in the form of group work. **5In group work**, students are expected to demonstrate that they can solve problems as a team. **6Each student's contribution** to be assessed as an examination requirement must be clearly and individually recognizable and assessable. **7This** also applies to their individual contributions to the group outcome.
- f) **1A research paper** is a written assignment in which students work independently on solving complex scholarly or scholarly/application-oriented problems, using the scientific methods of the relevant discipline. **2Students** are expected to demonstrate that they are able to solve problems corresponding to the learning results of the module in question in compliance with the guidelines for scholarly work – from analysis and conception to implementation. **3Research papers**, differing in their requirement standards, may take the form of a conceptual framework/theory paper [*Thesenpapier*], abstract, essay, term paper, seminar paper, etc. **4The research paper** may be complemented by a presentation and/or a colloquium for the purpose of assessing the student's communication competency in presenting scholarly work to an audience. **5Details** of each research paper and the competencies to be assessed in each examination are set out in the module descriptions.
- g) **1A presentation** is a systematic and structured oral performance supported by suitable audio-visual equipment (such as beamer, slides, posters, videos) for the purpose of demonstrating and summarizing specific issues or results and paring complex problems down to their essential core. **2In the presentation**, the student is expected to demonstrate that he or she is capable of preparing a certain topic within a given time frame in such a way as to present or report it in a clear and comprehensible manner to an audience. **3In addition**, the student is expected to demonstrate that he or she is able to respond competently to any questions, suggestions or discussions brought by the audience and relating to the subject area. **4The presentation** may be complemented by a brief written précis. **5The presentation** may take the form of an individual or a group achievement. **6Each student's contribution** to be assessed as an examination requirement must be clearly and individually recognizable and assessable. **7This** also applies to their individual contributions to the group outcome.
- h) **1An oral examination** is a timed, graded discussion on relevant topics and specific questions to be answered. **2In oral examinations** students are expected to demonstrate that they have

achieved the qualification objectives documented in the module descriptions and understood the central concepts of the subject matter covered by the exam and are able to apply them to specific problems. ³The oral exam may take the form of an individual or a group achievement. ⁴The duration of the examination is regulated in § 13(2) of the APSO.

- (2) ¹The examinations will, as a rule, be taken concurrently with the degree program. ²The type and duration of module examinations is stipulated in the Appendix Examination Modules. ³For any changes to the stipulated module provisions, § 12(8) of the APSO applies. ⁴The assessment of the module examination is governed by § 17 of the APSO. ⁵The grade weights of module examination components correspond to the weighting factors assigned to them in the Appendix Examination Modules.
- (3) If it is specified in Appendix 1 for a module examination that it is a written or oral exam, the examiner informs the students about the required type of examination at the latest on the first day of classes.
- (4) At the request of the students and with the consent of the examiners, examinations for German-language modules may be taken in English.

§ 42

Registration for and Admission to the Master's Examination

- (1) Students who are enrolled in the joint Master's Degree Program in Biomass Technology are deemed admitted to the module examinations of the master's examination.
- (2) ¹Registration requirements for required and elective module examinations are stipulated in § 15(1) of the APSO. ²The registration requirements for repeat examinations for failed required modules are stipulated in § 15(2) of the APSO.

§ 43

Scope of the Master's Examination

- (1) The master's examination consists of:
1. the module examinations in the relevant modules in accordance with Subsection 2;
 2. the master's thesis in accordance with § 46.
- (2) ¹The module examinations are listed in the Appendix Examination Modules. ²32 credits must be completed in the required modules and 46 credits in the elective modules. ³A total of 12 additional credits must be completed in general elective modules, i.e., modules offered by any faculty of the Technical University of Munich and/or by any faculty of the University of Natural Resources and Life Sciences, Vienna. ⁴At least 10 credits must be completed in foreign-language courses. ⁵The selection of modules must comply with § 8(2) of the APSO.
- (3) If a student selects a specialty, then he/she must complete at least 30 credits from this area in elective modules or elective courses in accordance with Appendix 1, and must prepare his/her Master's Thesis on a topic that can be allocated to this specialty.

§ 44

Repeat Examinations, Failed Examinations

- (1) The repetition of examinations is governed by § 24 of the APSO.

- (2) Failure of examinations is governed by § 23 of the APSO.

§ 45 Coursework

No coursework aside from the examination requirements mentioned in § 43(1) is to be completed in the Master's Degree Program in Biomass Technology.

§ 45 a Multiple Choice Tests

The conduct of multiple choice tests is governed by § 12 a of the APSO.

§ 46 Master's Thesis

- (1) ¹As part of the master's examination, each student must write a master's thesis in accordance with § 18 of the APSO. ²The thesis topic is determined and the master's thesis supervised jointly by expert examiners (*Themensteller/Themenstellerin*) of the Technical University of Munich and the University of Natural Resources and Life Sciences, Vienna. ³Expert examiners as stipulated in Sentence 2 are appointed by the Examination Board.
- (2) ¹Completion of the master's thesis module, as a rule, is the final examination requirement. ²Upon request students may be granted early approval to commence work on the master's thesis if the objective of the thesis in the sense of § 18(2) APSO can be fulfilled under consideration of the progression of studies to date.
- (3) ¹The period of time between topic determination and submission of the completed master's thesis must not exceed 6 months. ²The master's thesis is considered submitted and failed if the student fails to submit it on time without valid reasons as specified in § 10(7) of the APSO. ³The master's thesis can be written in German or English.
- (4) ¹If the master's thesis was not graded as at least "sufficient" (4.0), it may be repeated once with a new topic. ²Students must renew their application to prepare the master's thesis module within six weeks of receipt of the grade.

§ 47 Passing and Assessment of the Master's Examination

- (1) The master's examination is deemed passed when all examinations required for the master's examination in accordance with § 43(1) have been passed and a plus credits account of at least 120 credits has been achieved.
- (2) ¹The module grade will be determined according to § 17 of the APSO. ²The overall grade for the master's examination will be calculated as the weighted grade average of the modules according to § 43(2) and the master's thesis. ³The grade weights of the individual modules correspond to the credits assigned to each module. ⁴The overall assessment is expressed by the designation in accordance with § 17 of the APSO.

§ 48
Degree Certificate, Diploma, Diploma Supplement

- (1) ¹If the master's examination is passed, a joint graduation certificate, a diploma supplement and a transcript of records are to be issued; they are to be signed by the Chair of the Examination Board. ²The transcript of records is also signed by the Examination Office of the Technical University of Munich.
- (2) ¹In addition, a joint diploma is issued certifying the conferral of the academic degree "Master of Science" ("M.Sc."). ²This diploma is signed by the President of the Technical University of Munich and the President of the University of Natural Resources and Life Sciences, Vienna.

§ 49
Entry into Force*)

¹ These regulations enter into force as of 12 May 2017. ²They apply to all students who commence their studies at the Technical University of Munich as of the winter semester 2017/2018.

*) This provision concerns entry into force of the regulations in the original version of 25 October 2017. The point in time at which the amendments enter into force results from the amending statute.

Appendix 1: Examination modules TUM/BOKU

At least 10 credits are to be completed in foreign-language modules or courses.

No.	Module name	Type of instruction	Sem.	SWS	Credits	Type of examination	Duration of examination	Weighting	Language instruction
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Required modules:

*At least one semester must be completed successfully at each of the partner universities (Technical University of Munich and University of Natural Resources and Life Sciences, Vienna).

**The required modules and required courses can be taken either at the Technical University of Munich Campus Straubing for Biotechnology and Sustainability or at the University of Natural Resources and Life Sciences, Vienna. To this end, various lectures on blocks of topics are bundled in Vienna corresponding to equivalent modules in Straubing.

A list of equivalent modules is given in Appendix 3.

Students who have successfully completed a particular module at TUM are not permitted to take the corresponding course at BOKU, and vice versa.

Required Modules at the Technical University of Munich Campus Straubing for Biotechnology and Sustainability

32 credits must be completed from the following list.

WZ1101	Introduction to Material Use	V Ü	WiSe	2 V 2 Ü	5	Written exam	60		German/ English
WZ1180	Introduction Energy Conversion & Energy Economy	V Ü	WiSe	2 V 2 Ü	5	Written exam	60		German/ English
WZ1103	Introduction to the Economics of Renewable Resources	V	WiSe	4 V	5	Written exam	120		German/ English
WZ1102	Renewable Resources and Agroecosystems	V	SoSe	4 V	5	Written exam	120		German/ English
WZ1105	Life Cycle Assessment of Renewable Resources	V	SoSe	4 V	5	Written exam	90		German/ English
WZ1020	Renewable Resources and Conservation	V	WiSe	4 V	5	Written exam	90		German/ English
WZ1959	Master's seminar***	Ü	WiSe, SoSe	2 Ü	2	Presentation			German/ English
	Total:				32				

	Master's Thesis				30	Research paper			German or English
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***The master's seminar is offered at the University of Natural Resources and Life Sciences, Vienna. The module Methods Seminar WZ1959, which is offered at the Technical University of Munich, is considered to be equivalent.

Elective modules:

A total of 46 credits must be completed as electives in the areas Cultivation of Renewable Resources, Chemical and Material Use of Biomass, Energetic Use of Biomass, Environment and Ecology, and Economics of Renewable Resources. They can be taken either at the Technical University of Munich Campus Straubing for Biotechnology and Sustainability or at the University of Natural Resources and Life Sciences, Vienna.

The following list of elective modules at the Technical University of Munich Campus Straubing for Biotechnology and Sustainability and the University of Natural Resources and Life Sciences, Vienna, provides examples; it is updated prior to every semester and made available prior to the first day of classes by the Examination Board.

In addition, students must complete 12 credits in general elective modules or elective courses offered by any faculty of the Technical University of Munich and/or by any faculty of the University of Natural Resources and Life Sciences, Vienna.

If a student has selected at least 30 credits from a specialty and prepared his/her master's thesis in that specialty, then the specialty will be mentioned in the transcript of records.

Elective modules from the area Cultivation of Renewable Resources at the Technical University of Munich Campus Straubing for Biotechnology and Sustainability

No.	Module name	Type of instruction	Sem.	SWS	Credits	Type of examination	Duration of examination	Weighting factor	Language of instruction
CS0006	Genetic Engineering and Synthetic Biology	V Ü		2V, 2Ü	5	Written exam + presentation (SI)	90		English
CS0016	Methods of Synthetic Biology	P	WiSe	5 P	5	Laboratory assignment			German/English
CS0017	Regulation of Microbial Metabolism	V	SoSe	2 V	3	Written exam	60		German/English
WZ1115	Agroforest Systems	VI	SoSe	4 VI	5	Written exam	90		German
WZ1120	Medicinal and Spice Plants	V Ü	WiSe	2 V 2 Ü	5	Written exam	90		German/English
WZ1290	Biological Materials in Nature and Technology	V	SoSe	4 V	5	Written exam	90		German
WZ 1193	Biogas Technology	V Ü	SoSe	2.5V, 1Ü	5	Written exam	60		English
CS0155	Renewable Resources in Communications Media and	V Ü	WiSe	2 V 2 Ü	5	Presentation + Report		4:1	German
WZ1192	Practical research course	P		4	5	Research paper			German/English

Elective courses from the area of Cultivation of Renewable Resources at the University of Natural Resources and Life Sciences, Vienna

No.	Course title	Type of instruction	Sem.	SWS	Credits	Type of examination	Duration of examination	Weighting factor	Language of instruction
WZ 9458BOK	Field Crop Production and Products	V Ü	WiSe	2 V 1 Ü	4	Oral	30		German
WZ 9422BOK	Technology Manure Utilisation	V Ü	WiSe	1 V 1 Ü	3	Written exam	60		German
WZ 9465BOK	Plant and Environment (in English)	V	WiSe	2 V	3	Written exam	60		English
WZ 9466BOK	Soil Protection	V	SoSe	2 V	3	Written exam	60		English
WZ 9467BOK	Mountain Forest Silviculture	V	SoSe	2 V	2	Written exam	60		German
WZ 9468BOK	Forest Soil Biology (in English)	V Ü	WiSe	1 V 1 Ü	3	SL, Presentation			English
WZ 9469BOK	Aspects of Nature Conservation in Forest Protection	V	WiSe	1 V	1	Oral	30		German
WZ 9045BOK	Aspects of Product Quality in Plant Production (in English)	V	WiSe	4 V	4	Written exam	60		English
WZ 9471BOK	Medicinal and Aromatic Plants (in English)	V	WiSe	2 V	3	Oral	30		English
WZ 9420BOK	Supply of Wood Fuels	V Ü	WiSe	1 V 1 Ü	3	Written exam + Report	60	1:1	German
WZ 9473BOK	Actual and Future-Oriented Themes of Silviculture	V	WiSe	2 V	2	Written exam	60		German
WZ 9474BOK	Agricultural Engineering in Plant Production, Seminar (in English)	Ü	SoSe	3 Ü	4	Report + Presentation		1:1	English

Elective courses from the area of Environment and Ecology at the University of Natural Resources and Life Sciences, Vienna

No.	Course title	Type of instruction	Sem.	SWS	Credits	Type of examination	Duration of examination	Weighting factor	Language of instruction
WZ 9475BOK	Waste Technology	V	SoSe	3 V	3	Written exam	60		German
WZ 9476BOK	Plant and Environment Technology	V Ü	SoSe	1 V 1 Ü	2	Written exam	60		German

WZ 9426BOK	Environmental Law	V	WiSe	2 V	3	Written exam + Oral	90, 30	1:1	German
WZ 9478BOK	Water Quality Assessment	V Ü	SoSe	1.5 V 1.5 Ü	4.5	Written exam + presentation	60	1:1	German
WZ 9479BOK	Ecology	V	WiSe	2 V	3	Written exam	60		German
WZ 9419BOK	Crop production systems in organic agriculture (in English)	V Ü	WiSe	1 V 1 Ü	3	Written exam	60		English
WZ 9481BOK	Global Change Ecology	V	WiSe	2 V	3	Written exam	60		German
WZ 9482BOK	Seminar in Global Change and Ecosystems (in English)	Ü	WiSe	1 Ü	2	Presentation			English

Elective modules from the area Chemical and Material Use of Biomass at the Technical University of Munich Campus Straubing for Biotechnology and Sustainability

CS0008	Enzyme Engineering	V P		2 V 2 P	5	Written exam + Report	60	2:1	English
CS0006	Genetic Engineering and Synthetic Biology	V S		2 V 2 S	5	Written exam + presentation	90		English
CS0016	Methods of Synthetic Biology	P	WiSe	5 P	5	Lab			German/ English
CS0017	Regulation of Microbial Metabolism	V	SoSe	2 V	3	Written exam	60		German/ English
CS0019	Chemistry of Enzymes	V S		2 V 1 S	5	Written exam	60		English
CS0020	Glycomics	V Ü	SoSe	1 V 2 Ü	3	Written exam	60		German/ English
WZ1191	Phytopharmaceuticals and Natural Products	V P	SoSe	2 V 1 P	5	Written exam	60		German
CS0021	Surface Chemistry	V Ü	WiSe	1 V 0.5 Ü	3	Written exam	60		German
WZ1157	Sustainable Chemistry	V S	SoSe	2 V 1 S	5	Written exam + presentation	60		German/ English
CS0010	Advanced Downstream Processing	V Ü		2 V 2 Ü	5	Written exam	60		English
CS0022	Electrolyte thermodynamics	V Ü	WiSe	1.5 V 0.5 Ü	3	Oral	25		English
CS0023	Gas-based Bioprocesses	V Ü		2 V	3	Written exam	60		German/ English
WZ1189	Mechanical Process Engineering	V Ü	WiSe	2 V 2 Ü	5	Written exam	60		German
CS0024	Electrobiotechnology	V Ü		2 V 2 Ü	5	Written exam	90		English
WZ1290	Biological Materials in Nature and Technology	V	SoSe	4 V	5	Written exam	90		German
WZ1210	Materials Science of Renewable Resources	V Ü	WiSe	2 V 1 Ü	3	Written exam	90		German

CS0025	Advanced Analytics for Biotechnology	V S	SoSe	2 V 1 S	5	Written exam + presentation	60		English
CS0026	Advanced Concepts of Bioinformatics	VI	SoSe	4 VI	5	Written exam	90		English
CS0009	Enzymatic Biotransformations	V Ü	WiSe	2 V 1 Ü	5	Written exam	90		English
WZ1197	Practical research course "Cultivation of Renewable Resources"	P		4	5	Research paper			German/ English

Elective courses from the area of Chemical and Material Use of Biomass at the University of Natural Resources and Life Sciences, Vienna

No.	Course title	Type of instruction	Sem.	SWS	Credits	Type of examination	Duration of examination	Weighting	Language of instruction
WZ9483 BOK	Biomimetics – Technical Solutions from Nature	V	WiSe	2 V	2	Written exam	60		German
WZ9484 BOK	Separation Processes for Renewable Resources	V	WiSe	2 V	2	Written exam	60		German
WZ9431 BOK	Biobased and Biodegradable Plastics	V	WiSe	2 V	2	Written exam	60		German
WZ9486 BOK	Wood and Fibre Quality (in English)	V	WiSe	2 V	2	Written exam + Oral	90, 30	1:1	English
WZ9487 BOK	Natural-fibre Raw Materials	V	SoSe	2 V	2	Written exam	60		German
WZ9488 BOK	Chemistry and Technology of Polymers	V	WiSe	2 V	2	Written exam + Oral	90, 30	1:1	German
WZ9489 BOK	Chemistry and Technology of Sustainable Resources (in English)	V	WiSe	2 V	2	Written exam + Oral	90, 30	1:1	English
WZ9490 BOK	Processes in Enzyme Technology (in English)	V	WiSe	2 V	2	Oral	30		English
WZ9491 BOK	Biochemical Technology (in English)	V	SoSe	2 V	2	Written exam + Oral	90, 30	1:1	English
WZ9492 BOK	Wood Biotechnology	V Ü	SoSe	1 V 1 Ü	2	Written exam	60		German
WZ9389 BOK	Technology and Properties of Natural Raw Materials	P	WiSe	3 P	4	Project work			German
WZ9494 BOK	Microbiology	V	WiSe	2 V	2	Written exam	60		German
WZ9495 BOK	Mechanical and Thermal Process Technology II (in English)	V Ü	WiSe	1.5 V 1.5 Ü	3	Written exam, laboratory assignment	60		English

WZ9496 BOK	Wood-Industrial Processes: Wood- and Fibre-based Materials (in English)	V	WiSe	2 V	2	Oral	30		English
WZ9497 BOK	Engineered Wood Products (in English)	V	WiSe	2 V	2	Written exam + Oral	90, 30	1:1	English
WZ9498 BOK	Composite (in English)	V	WiSe	2 V	2	Written exam	60		English
WZ9499 BOK	Wood and Fibre Material Performance	V Ü	SoSe	1 V 1 Ü	2	Laboratory assignments			German
WZ9500 BOK	Wood Cutting, Milling, Moulding	V	WiSe	2 V	2	Written exam	60		German
WZ 9512 BOK	Technology of Wood Processing	Ü	WiSe	1 Ü	2	Written exam, laboratory assignment	30		German

Elective modules from the area Energetic Use of Biomass at the Technical University of Munich Campus Straubing for Biotechnology and Sustainability:

No.	Module title	Type of instruction	Sem.	SWS	Credits	Type of examination	Duration of examination	Weighting factor	Language of instruction
CS0132	Energy process engineering	V, Ü	WiSe	2 V 3Ü	6	Written exam	90		English
CS0133	Mechanical process engineering	V, Ü	WiSe	2V, 2Ü	6	Written exam	90		English
CS0136	Energetic use of biomass and residuals	V, Ü	SoSe	2V, 2Ü	6	Written exam	60		English
CS0105	Modeling and Optimization of Energy Systems	V	WiSe	4 V	6	Written exam	90		English
CS0139	Flowsheet balancing and simulation	Ü	WiSe	4Ü	5	Practical credit requirement			English
CS0141	Machine Learning	V, Ü	SoSe	2V, 2Ü	5	Written exam	90		English
CS0142	Detail Process Engineering	V, Ü	SoSe	2V, 2Ü	5	Written exam	90		English
WZ1180	Energy and Economics	V, Ü	WiSe	3V, 1Ü	5	Written exam	60		German
CS0092	Wind Power	V, Ü	SoSe	1.5V, 1Ü	4	Written exam	60		English
CS0143	Hydropower	V	SoSe	3 V	4	Written exam	60		German
WZ1128	Geothermal Energy Systems	V	WiSe	4 V	5	Written exam	90		English
WZ1132	Practical research course	P		4	5	Research paper			German/ English

Elective courses from the area Energetic Use of Biomass at the University of Natural Resources and Life Sciences, Vienna

No.	Course title	Type of instruction	Sem.	SWS	Credits	Type of examination	Duration of examination	Weighting	Language of instruction
WZ9513 BOK	Energy Engineering (in English)	V	SoSe	2 V	3	Written exam	60		English
WZ9514 BOK	Electrical Power Engineering	V	SoSe	2 V	3	Written exam	60		German
WZ9515 BOK	Energy Economics	V	WiSe	3 V	3	Written exam	60		German
WZ9516 BOK	Renewable Energy Resources (in English)	V	WiSe	2 V	3	Oral	30		English
WZ9517 BOK	Applied Measurement and Control Systems (in English)	V Ü	WiSe	1 V 1 Ü	3	Report + Presentation	30	1:1	English
WZ9518 BOK	Practical Course in Energy Engineering (in English)	P	WiSe	3 P	3	Report + Written exam	30	1:1	English
WZ9519 BOK	Energy and Spatial Planning	V Ü	SoSe	1 V 1 Ü	3	Report + Oral	30	1:1	German
WZ9520 BOK	Future Energy Supply Depending on Resource Availability	Ü	WiSe	2 Ü	3	Report			German
WZ9382 BOK	Biogenic Solid and Liquid Fuels	V	WiSe	1.5 V	2	Oral	30		German
WZ9388 BOK	Biogas Technology	V Ü	WiSe	1 V 1 Ü	3	Written exam + Report	60	1:1	German
WZ9523 BOK	Seminar in Energy Economics	Ü	WiSe + SoSe	4 Ü	6	Project work			German

Elective modules from the area Economics of Renewable Resources at the Technical University of Munich Campus Straubing for Biotechnology and Sustainability

No.	Module name	Type of instruction	Sem.	SWS	Credits	Type of examination	Duration of examination	Weighting factor	Language of instruction
CS0111	Advanced Development Economics	2 V 2 Ü	WiSe	4	6	Written exam	60		English
CS0114	International Trade	2 V 2 Ü	WiSe	4	6	Written exam	60		English
CS0116	Markets for Energy and Biobased Products	3 V 1 Ü	SoSe	4	6	Oral + Presentation	20	7:3	English
CS0122	Personnel and Organizational Economics	2 V 2 Ü	SoSe	4	6	Written exam	90		English
CS0117	Consumer Studies	2 V 2 Ü	SoSe	4	6	Oral + Presentation	20	1:1	English
CS0113	Innovation in Bioeconomy	2 V 2 Ü	WiSe	4	6	Written exam	90		English
CS0128	Corporate Sustainability Management	1 V 3 Ü	WiSe	4	6	Written exam + presentation	60	3:1	English
CS0125	Plant and Technology Management	2 V 2 Ü	SoSe	4	6	Written exam	90		English
CS0112	Advanced Seminar in Supply and Value Chain Management	4Ü	SoSe	4	7	Presentation + Research paper		1:1	English
CS0126	Advanced Seminar in Circular Economy and Sustainability Management	4Ü	WiSe	4	7	Presentation + Research paper		1:2	English
CS0123	Advanced Seminar in Behavioral Economics	4Ü	WiSe	4	7	Presentation + Research paper		1:2	English
CS0118	Environmental Accounting in Economics and Sustainability Sciences	2V, 2VI	WiSe	4	6	Written exam	90		English
WZ1194	Practical research course	P		4	5	Research paper			German/English

Elective courses from the area of Economics of Renewable Resources at the University of Natural Resources and Life Sciences, Vienna

No.	Course title	Type of instruction	Sem.	SWS	Credits	Type of examination	Duration of examination	Weighting	Language of instruction
WZ9524 BOK	Market Research and Market Analysis	V Ü	SoSe	1 V 1 Ü	3	Oral + Report	30	1:1	German
WZ9525 BOK	Marketing and Innovation Strategies	V	WiSe	2 V	2	Written exam	60		German
WZ9521 BOK	Environmental Economics at Company Level	V	SoSe	2 V	3	Written exam	60		German
WZ9522 BOK	Agricultural Business Administration I	V	WiSe	2 V	3	Written exam	60		German
WZ9435 BOK	Resource and Environmental Economics (in English)	V	SoSe	2 V	3	Written exam	60		English
WZ9493 BOK	Economics of Sustainable Land Use in the Context of Global	V	SoSe	2 V	3	Written exam	60		German
WZ9485 BOK	Business networks (Logistics)	V Ü	SoSe	2 V 2 Ü	6	Written exam	60		German
WZ9477 BOK	Business Management I	V Ü	WiSe	1 V 1 Ü	3	Report + Presentation		1:1	German
WZ9526 BOK	Logistics in Forestry and Timber Industry	Ü	SoSe	2 Ü	3	Practical credit requirement			German
WZ9383 BOK	Procurement	V	WiSe	1 V	1	Written exam	60		German
WZ9385 BOK	Survey Research in the Social Sciences	Ü	SoSe	2 Ü	3	Report + Presentation			German
WZ9472 BOK	Qualitative Methods in Economics and the Social Sciences	V Ü	WiSe	1 V 1 Ü	3	Practical credit requirement			German

General education and multidisciplinary elective modules offered by any faculty of the Technical University of Munich or by any faculty of the University of Natural Resources and Life Sciences, Vienna. A total of 12 credits must be obtained in elective modules in this area of electives:

The Examination Board continuously updates the catalog of subjects of the elective modules and elective courses. Changes will be announced on the websites of the Examination Board at the latest at the beginning of the semester.

Explanations:

Sem. = semester; SWS = Semesterwochenstunden/weekly hours per semester; V = Vorlesung/lecture; Ü = Übung/exercise; P = Praktikum/internship; S = seminar; VI = lecture with integrated exercise

In the column "Duration of examination", the duration of written and oral examinations is specified in minutes.

Credit total for each semester:

Semester	Credits Required modules, required courses	Credits Elective module, elective courses	Credits general elective modules, elective courses	Credits Master's Thesis	Total Credits	Number of exams
1	15	15			30	6
2	10	15	6		31	6
3	7	16	6		29	6
4	0	0		30	30	1

Appendix 2: Aptitude Assessment

Aptitude assessment for the joint Master's Degree Program in Biomass Technology of the Technical University of Munich or by any faculty of the University of Natural Resources and Life Sciences, Vienna.

1. Purpose of the Process

¹Eligibility for the joint Master's Degree Program in Biomass Technology, in addition to the requirements specified in § 36(1) Nos. 1 and No. 2, requires proof of aptitude in accordance with § 36(1) No. 3 in accordance with the following provisions. ²The special qualifications and skills of the candidates should correspond to the field of engineering, the natural, agricultural, or forestry sciences. ³The individual aptitude parameters are:

- 1.1 ability to do research work and/or basic research and methodological work;
- 1.2 specialist knowledge from a bachelor's degree program in natural, engineering, agricultural, or forestry sciences,
- 1.3 exceptional motivation to work on applied and practical questions,
- 1.4 compelling communication skills, especially presentation and reasoning skills.

2. Aptitude Assessment Process

The Aptitude Assessment Process is conducted semi-annually by the Technical University of Munich Campus Straubing for Biotechnology and Sustainability and the University of Natural Resources and Life Sciences, Vienna.

¹Applications to the aptitude assessment process for the winter semester must be submitted to the Technical University of Munich together with the documents listed in 2.3.1. through 2.3.5. and in § 36(1) No. 2 no later than 31 May and for the summer semester by 15 January (absolute deadlines) using the online application procedure. ²Official copies of the student's diploma and graduation certificate, serving as proof of the conferral of the bachelor's degree, must be submitted to the TUM Center for Study and Teaching – Admissions and Enrollment Office no later than five weeks after the first day of classes. ³Admission to the master's program is, otherwise, not possible in accordance with § 36 of these regulations.

2.3 The application must include:

2.3.1 a transcript of records containing modules amounting to at least of 140 credits; the transcript of records must be issued by the relevant examination authority or academic programs office,

2.3. 2 a description of the curriculum on which the bachelor's degree program was based and which indicates the contents of the modules and the competencies gained (e.g., module catalog, module descriptions) and the form provided by the TUM Campus Straubing for Biotechnology and Sustainability listing the grades, credits and semester hours per week of the relevant modules (examination requirements),

2.3.3 curriculum vitae formatted as a table;

2.3. 4 A German or English-language written statement (max. 1- two DIN A4 pages) of the reasons for choosing the joint master's degree program in Industrial Chemistry at the Technical University of Munich and the University of Natural Resources and Life Sciences, Vienna, in which the candidate explains those specific abilities and interests that make him/her particularly qualified for the program; a candidate's exceptional motivation and commitment is to be demonstrated by providing details on program-related vocational training, internships, stays abroad, or program-related further education beyond the attendance and course requirements of the bachelor's program, if necessary by appropriate documentation.

2.3. 5 a declaration that the essay is the applicant's own work, and that the applicant has clearly identified any ideas taken from outside sources.

3. Aptitude Assessment Commission, Selection Committees

3.1 ¹Aptitude assessment is administered by the Aptitude Assessment Commission and the Selection Committees. ²The Commission is responsible for preparing the aptitude assessment process, organizing it and ensuring a structured and standardized process for determining aptitude within the framework of these Regulations; it bears responsibility, insofar as no other body is specified by these Regulations or through delegation of its authority to another body. Selection Committees are to conduct the assessment process in accordance with Nr. 5 subject to Nr. 3.2 Sentence 11.

3.2 ¹The Commission consists of five members. ²Members of the Commission are appointed by the Rector, in consultation with the Study Dean, from among the authorized examiners of the Integrative Research Center TUM Center for Biotechnology and Sustainability, who are members of the degree program faculty. ³Commission members must be university educators within the meaning of the Bavarian Act on Higher Education Staff (BayHSchPG). ⁴The Departmental Student Council has the right to name a student representative to serve on the Commission in an advisory capacity. ⁵A deputy is to be appointed for each member of the Commission. ⁶The Commission elects a chairperson and a deputy chairperson from among its members. ⁷Procedures are governed by § 30 of the TUM Charter as last amended. ⁸The term in office of Commission members is 4 years. ⁹Extensions of the term of office and reappointments are possible. ¹⁰Urgent decisions that cannot be postponed can be made by the chairperson on behalf of the Commission; He/She must inform the Commission of such decisions without delay. ¹¹The Academic Programs Office supports the Commission and the Selection Committee; the Commission may delegate to the Office the task of assessing formal admissions requirements in accordance with Nr. 4, as well as the determination of points to be awarded based on defined criteria for which there is no freedom of discretion involved. This includes, in particular, the conversion of grades and the calculation of the overall points earned by the applicant. The Office may also be involved in choosing the members of the Selection Committee from among the commissioners and assigning them to applicants.

3.3 ¹Each Selection Committee consists of two members of the Integrative Research Center TUM Center for Biotechnology and Sustainability, who are authorized to conduct examinations in the degree program according to Art. 62(1) Sentence 1 of the Bavarian Higher Education Act [BayHSchG] in conjunction with the act governing examiners at institutions of higher education [*Hochschulprüfverordnung*]. ²At least one member must be university educators within the meaning of the Bavarian Act on Higher Education Staff (BayHSchPG). ³It is permissible to serve concurrently on both the Aptitude Assessment Commission and the Selection Committee. ⁴Members of the Committee are appointed by the Commission for a term of 1 year; Nr. 3.2 Sentence 9 applies accordingly. ⁵Different Selection Committees may be assigned to individual criteria and stages of the assessment process.

4. Admission to the Aptitude Assessment Process

4.1 Admission to the aptitude assessment process requires that all documentation specified in No. 2.2 has been submitted in a timely and complete fashion.

4.2 ¹ Applicants who have fulfilled the requirements according to No. 4.1 will be assessed according to No. 5. ² Applicants not suited to the program will receive a letter of rejection stating the grounds for rejection and informing them of legal remedies.

5. The Aptitude Assessment Process

5.1 First stage of the aptitude assessment process

5.1.1 ¹It will be assessed, on the basis of the written application documents required under no. 2.3, whether or not an applicant is suitable for a program pursuant to no. 1 (First stage of the aptitude assessment process). ²The candidate's application documents will be evaluated on a scale ranging from 0 to 100 points, 0 being the worst and 100 the best possible result.

5.1.2 : ³The following criteria will be applied to the evaluation:

a) Discipline-Specific Skills and Qualifications

¹A curricular analysis of specialist skills and qualifications is conducted on the basis of existing competencies rather than on a schematic comparison of modules. ²The analysis is based on the fundamental groups of subjects listed in the following tables which are taken into account either for the graduates of bachelor's programs in engineering, for the graduates of bachelor's programs in a natural science, or for the graduates of bachelor's programs in agricultural or forestry sciences.

Groups of Subjects for Bachelor's in Engineering:

- A) Fundamentals of engineering (mathematics, technical mechanics, computer aided design, materials science, apparatus and plant engineering)
- B) Fundamentals of process technology (thermodynamics, heat and mass transfer, mechanical process engineering, thermal separation principles, reaction engineering, biochemical engineering)

Groups of Subjects for Bachelor's in the Natural Sciences:

Fundamentals of natural sciences (mathematics, physics, chemistry, physical chemistry, biology)

Groups of Subjects for Bachelor's in Agricultural and Forestry Sciences:

Fundamentals of agricultural science (fundamentals of forestry sciences, fundamentals of ecology)

³If it is established that there are no significant differences in the competencies acquired (learning outcomes) in relation to the corresponding degree programs of the Technical University of Munich, a maximum of 60 points will be awarded. ⁴Missing competencies will be deducted from the overall score corresponding to the credits of the relevant modules of the corresponding bachelor's degree program at the Technical University of Munich. ⁵If this value is not a whole number, it will be rounded up in the candidate's favor.

b) Final Grade

¹The applicant will be awarded one point for each tenth that the average calculated from examinations in the amount of 140 credits is better than 3.0. ²The maximum number of points is 20. ³Negative points will not be awarded. ⁴Grades of international degrees will be converted by applying the Bavarian formula.

⁵If the candidate has submitted a degree certificate containing more than 140 credits with the application, the assessment will be made on the basis of the modules with the best grades amounting to 140 credits. ⁶The applicant needs to submit a list of the results together with the application and confirm its accuracy in writing.

⁷If the candidate submits this list, the average is calculated from graded module examinations with the best grades amounting to 140 credits; if no list is submitted, the overall average of grades submitted by the candidate will be used to calculate the average. ⁸The overall grade average is calculated as a weighted grade average. ⁹The grade weights of the individual modules correspond to the credits assigned to each module.

c) Letter of motivation

¹The applicant's written statement will be evaluated by two committee members and graded on a scale of 0 – 20 points. ²The content will be assessed using the following criteria:

1. The reason for applying can be formulated in a factual way.
2. The relationship between personal interests and the content of the respective stated area of concentration can be described in a well-structured manner.
3. Convincing demonstration of particular aptitude and motivation for the master's degree program supported by arguments and meaningful examples (see 2.3.4.).
4. Ability to linguistically emphasize important points of their reasoning in an appropriate way.

³The two committee members independently assess each of the 5 criteria with equal weighting. ⁴The points total will be calculated as the arithmetic mean of the individual assessments, rounded up to the nearest full point.

5.1. 2 ¹The points total of the first stage will be calculated as the sum of the individual evaluations. ²Decimal places must be rounded up.

5.1. 3 ¹Applicants who have achieved 70 points will receive confirmation that they have passed the aptitude assessment. ²In those cases where it is determined that only some subject-specific requirements for the master's program are missing from undergraduate studies, the Selection Committee may require that applicants complete fundamentals exams from the bachelor's program in Biomass Technology amounting to a maximum of 30 credits. ³These fundamentals exams must be successfully completed in the first year of study. ⁴Failed fundamentals exams may be repeated only once and at the next examination date. ⁵The Examination Board may make the admission to individual module examinations dependent on the successful completion of the fundamentals exam.

5.1. 4 ¹Applicants who have achieved less than 40 points fail the aptitude assessment.

5.2. Second Stage:

5.2.1 ¹The remaining applicants will be invited to an aptitude assessment interview. ²During the second stage of the aptitude assessment, both skills acquired during the applicant's bachelor's studies and the result of the assessment interview will be assessed. ³Interview appointments will be announced at least one week in advance. ⁴Time slots for interviews must be scheduled before expiration of the application deadline. ⁵The interview appointment must be kept by the applicant. ⁶Conducting the aptitude assessment interview via video conference is possible upon a student's well-founded request. ⁷The applicant bears the risk in the event of any technical problems, unless these are attributable to the Technical University of Munich. ⁸If the applicant is unable to attend an aptitude assessment interview due to reasons beyond his/her control, a later appointment may be scheduled upon a student's well-grounded request, but no later than two weeks before the beginning of classes.

5.2.2 ¹The aptitude assessment interview is to be held individually for each applicant. ²The interview lasts at least 20 but not more than 30 minutes for each applicant. ³The interview will focus on the following topics:

1. Exceptional motivation for the master's degree program in Joint Master's Degree in Biomass Technology according to the criteria for assessing the written statement of purpose mentioned in No. 2.3.4,
2. fundamental and applied questions in the field of biomass technology to assess the applicant's discipline-specific qualification,
3. General knowledge about the current situation of Renewable Resources.

⁴The above topics may cover the documentation submitted pursuant to 2.3. ⁵Any subject-specific academic knowledge that is to be taught in the joint master's degree program in Biomass Technology will not affect the decision. ⁶With the applicant's approval, a representative of the student body may sit in on the interview.

- 5.2.3 ¹The aptitude assessment interview will be conducted by of the Selection Committee. ²Committee members independently assess each of the three areas with equal weighting. ³Each member of the committee will grade the result of the interview on a scale from 0 to 50, 0 being the worst and 50 being the best possible result. ⁴The points total will be calculated as the arithmetic mean of the individual evaluations. ⁵Non-vanishing decimal places must be rounded up.
- 5.2.4 ¹The total number of points awarded in stage 2 is the sum of the points from 5.2.3 and the points from 5.1.1.a)(subject-specific qualification) and 5.1.1.b)(Final Grade). ²Applicants with 70 or more points will be deemed suitable.
- 5.2.5 ¹Applicants will be informed of the results of the aptitude assessment determined by the Selection Committee – taking account of the requirements already determined in stage 1 in accordance with No. 5.1.3, as appropriate. ²The notice must be signed by the TUM Board of Management. ³ Signatory power may be delegated. ⁴A rejection notice must specify the reasons for the rejection and provide information on legal remedies.
- 5.2.6 Admissions to the joint master's degree program biomass technology apply to all subsequent applications for this program.

6. Documentation

¹The aptitude assessment process must be documented, in particular the names of the participating members of the Selection Committee, the evaluation of the first and second stages, as well as the overall results. ²The aptitude assessment interview must be documented, including the date, duration and location of the assessment, the names of the participating Selection Committee members, the applicant's name, and a list of main topics of discussion in bullet points.

7. Repeat Aptitude Assessments

Applicants who have failed an aptitude assessment may apply once to repeat the aptitude assessment process.