Academic and Examination Regulations for the
Elite Master’s Degree Program
Responsibility in Science, Engineering and Technology (RESET)
at the Technical University of Munich

dated

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 Bayerisches Hochschulgesetz (BayHSchG) [Bavarian Higher Education Act] the Technische Universität München issues the following Subject Examination and General Academic Regulations (Fachprüfungs- und Studienordnung, FPSO):

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§ 34
Applicability, Academic Titles

(1) These Subject Examination and General Academic Regulations for the Master’s Program in Science and Technology Studies (FPSO) complement the General Academic and Examination Regulations for Bachelor’s and Master’s programs at the Technical University of Munich (APSO) of 18 March 2011 as amended. 2 The APSO shall have precedence.

(2) Upon successful completion of the master’s examination the degree “Master of Arts” (“M.A.”) is awarded. 2 The academic title may also be used with the name of the university “(TUM)”.

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

(1) The master’s program in Responsibility in Science, Engineering and Technology (RESET) at the Technical University of Munich commences, as a rule, in the winter semester.

(2) The number of classes in required and elective subjects needed to obtain the master’s degree is 90 credits (30 weekly hours per semester) spread over three semesters. 4 In addition, a maximum of 30 credits/six months is scheduled for the completion of the master’s thesis pursuant to § 46. 3 The number of coursework units and examinations in required and required elective subjects to be completed in the Responsibility in Science, Engineering and Technology (RESET) master’s program according to Appendix 1 is a minimum of 120 credits. 4 The standard duration of study for the master’s program will be a total of four semesters.

§ 36
Eligibility Requirements

Eligibility for the master’s degree program in Responsibility in Science, Engineering and Technology (RESET) is demonstrated by:

a qualified bachelor’s degree obtained after a program of at least six semesters from a domestic or foreign institution of higher education or at least an equivalent degree in the following degree programs
a) sociology, ethnology, history, philosophy, political science, communications or media studies, psychology
b) MINT subjects (mathematics, information technology, natural sciences, technology)
c) life sciences and medicine
as well as a verification of the successful participation in a module (lecture, seminar, exercise module) in the methods and theories of social science in the amount of 8 credits

an adequate knowledge of the English language; students whose native language or language of instruction is not English must demonstrate proficiency through an acknowledged language test such as “Test of English as a Foreign Language” (TOEFL) (with at least 88 points), “International English Language Testing System” (IELTS) (with at least 6.5 points) or “Cambridge Main Suite of English Examinations”; or any of the language tests available on the web page of the Admissions and Enrollment Office of the Technical University of Munich, all of which are accepted by the Academic Affairs Commission; alternatively adequate language skills may be proven through a good grade in English (corresponding to at least 10 out of 15 points) awarded by a domestic higher education entrance qualification. If, in the undergraduate program, 12 credits were obtained for examinations
administered in English language examination modules (verified by a certificate of the institution of higher education), adequate proficiency in English is deemed proven.

passing of the Aptitude Assessment pursuant to Appendix 2.

A degree is considered a qualified degree within the meaning of subsection 1 if such degree requires the successful completion of examinations that are equivalent to the examinations in the scholarly oriented bachelor’s program at the Technical University of Munich specified in subsection 1, no. 1, and correspond to the subject-specific requirements of the master’s program.

For Aptitude Assessment in accordance with subsection 2, required modules of the relevant bachelor’s program at TUM named in subsection 1, no. 1 or an equivalent institution of higher education, will be considered. If students do not meet all credit requirements, the Aptitude Assessment Commission can, in accordance with Appendix 2, no. 3, require students to complete additional fundamentals exams pursuant to subsection 1 to verify their qualification as stipulated in Appendix 2, no. 5.2. The candidate must be informed thereof after review of the documentation during the first stage of the Aptitude Assessment.

The comparability of programs, the subject-specific aptitude as well as the equivalence of degrees acquired from foreign institutions will be decided upon by the Examination Board in compliance with Art. 63 of the Bayerisches Hochschulgesetz [Bavarian Higher Education Act].

§ 37

Modular Structure, Module Examination, Courses, Fields of Study, Language of Instruction

(1) General provisions concerning modules and courses are set forth in §§ 6 and 8 of the APSO. For any changes to the stipulated module provisions § 12 (8) of the APSO shall apply.

(2) The curriculum listing the required and elective modules is included in Appendix 1. Students 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 by the end of the second semester of enrollment in the degree program, in which they acquire integrative knowledge of German. The offer will be announced by the Examination Board accordingly. Optional completed extracurricular courses e.g. German courses offered by the language center, will also be recognized.

(3) Generally, the language of instruction in the master’s program in Responsibility in Science, Engineering and Technology (RESET) is English.

§ 38

Examination Deadlines, Progress Monitoring, Failure to Meet Deadlines

Examination deadlines, progress monitoring, and failure to meet deadlines are governed by § 10 of the APSO.
§ 39
Examination Board

Pursuant to § 29 of the APSO the board responsible for all decisions concerning examination matters shall be the Master’s Examination Board for the master’s program in Responsibility in Science, Engineering and Technology (RESET).

§ 40
Recognition of Periods of Study, Coursework, and Examination Results

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

§ 41  Continuous Assessment Procedure, Types of Assessment

(1) In addition to written examinations (Klausuren) and oral examinations, types of assessment pursuant to § 12 and § 13 of the APSO include, in particular, project work, presentations, learning portfolios, research papers and parcours examinations.

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) 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. 3The specific components of each project work assignment and the related competencies to be assessed are delineated in the module description. 4Project work may include group work. 5Students are expected to demonstrate that they are able to complete the tasks in a team environment. 6A student’s contribution to group work which is to be assessed as a component of an examination must be clearly identifiable and gradable. 7This also applies to each individual’s contribution to the group result.

c) 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 related 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 or a colloquium for the purpose of assessing the student’s communication competency in presenting scholarly work to an audience. 5Specific details on each research paper and the related competencies to be assessed are set out in the module description.

d) 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. 2For 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 his or her subject area. The presentation may be complemented by a
brief written precis. The presentation may be prepared either individually or in groups. A student’s
contribution to group work which is to be assessed as a component of an examination must be
clearly identifiable and gradable. This also applies to each individual’s contribution to the group
result.

e) An oral examination is a timed, graded discussion on relevant topics and specific questions to be
answered. In oral examinations students are expected to demonstrate that they have reached the
qualification objectives laid out in the module descriptions, understood the central concepts of the
subject matters covered by the exam, and are able to apply them to specific problems. The oral
examination will be held either as an individual or group examination. The duration of the
examination is provided for in § 13 (2) of the APSO.

f) A learning portfolio is a collection of written materials compiled by the student according to
predefined criteria that exhibits the student’s progress and achievements in defined content areas
at a given time. Students are required to explain according to which criteria they have chosen the
materials and their relevance for their learning progress and the achievement of the qualification
objectives. With the learning portfolio, students are expected to demonstrate that they have taken
active responsibility for their learning process and have reached the qualification objectives set out
in the module description. Depending on the module description, types of independent study
assessment in a learning portfolio may include, in particular, application-oriented assignments, web
pages, weblogs, bibliographies, analyses, conceptual framework/theory papers, as well as the
graphic representation of facts or problems. The specific components of each learning portfolio and
the related competencies to be assessed are set out in the module description.

g) The parcours examination is made up of several components. Unlike a module examination
component, parcours exam components are administered in sequence and completed in a specific
time frame and location. Parcours components entail various types of examination, which together
evaluate the competency profile of the module as a whole. Possible types of examination in
parcours components include those listed in a) through f). The total duration of the parcours
examination with all its components is indicated in the module catalogue; type and duration of
individual components is specified in the module description.

(2) The module examinations will, as a rule, be taken concurrently with the program. The type and duration
of module examinations is stipulated in Appendix 1. The selection of modules must comply with § 12 (8)
of the APSO. The assessment of the module examination is governed by § 17 of the APSO.

§ 42 Registration for and Admission to the Master’s Examination

(1) Students who are enrolled in the master’s program in Responsibility in Science, Engineering and
Technology (RESET) are deemed admitted to the module examinations of the master’s examination. If
admission to individual modules is contingent upon successful completion of certain other modules this
will be specified in Appendix 1.

(2) Registration requirements for required and elective module examinations are stipulated in § 15 (1) of
the APSO. The registration requirements for repeat examinations for failed required and required
elective 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 corresponding modules pursuant to subsection (2);
2. the master’s thesis pursuant to § 46.

(2) 1The module examinations are listed in Appendix 1. 2Students must successfully complete 69 credits of required modules and at least 21 credits of elective modules. 3The selection of modules must comply with § 8 (2) of the APSO.

§ 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

In the elite master’s degree program Responsibility in Science, Engineering and Technology (RESET) there are no coursework requirements other than examination requirements.

§ 45 a
Multiple Choice Test

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 pursuant to § 18 of the APSO. 2The master’s thesis topic may be determined/the master’s thesis may be supervised by each expert examiner at TUM participating in the STS program (Themensteller). 3Expert examiners as stipulated in sentence 2 are appointed by the Examination Board.

(2) 1Work on the master’s thesis should commence after successful completion of all module examinations. 2Upon request students may be granted early admission to commence the master’s thesis if they reached 60 credits.

(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 presented and not passed if the student fails to submit it on time without valid reasons as specified in § 10 (7) of the APSO.

(4) 1The master’s thesis may be written in either the German or the English language. 2The completion of the master’s thesis consists of a written composition and a lecture on its content to take place during the course of study. 3The lecture is to take place while the thesis is in preparation. Presentations within the scope of the colloquium are not calculated into the grade for the master’s thesis.

(5) 1If the master’s thesis was not graded with at least “sufficient” (4.0), it may be repeated once with a new topic. 2Students must renew their application for admission within six weeks from 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 pursuant to § 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 Appendix 1 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 pursuant to § 17 of the APSO.

§ 48  
Degree Certificate, Diploma, Diploma Supplement

¹If the master’s examination was passed, a degree certificate, a diploma and a diploma supplement including a transcript of records are to be issued in compliance with § 25 (1) and § 26 of the APSO. ²The date to be entered on the degree certificate is the day when all examination and course work requirements have been fulfilled.

§ 49  
Entry into Force

(1) ¹This Charter shall enter into force on 1 May 2017. ²They shall apply to all students who commence their studies in the STS master’s program at the Technical University of Munich as of the winter semester 2017/2018.
**Appendix 1: Examination Modules**

**Explanation:**
Sem. = semester; SWS = Semesterwochenstunden/weekly hours per semester; V = Vorlesung/lecture; Ü = Übung/exercise; P = Praktikum/practicum ZV = Zulassungsvoraussetzung/admission requirement [see § 43 (1)]

**Required modules:**

**Introductory Modules**

<table>
<thead>
<tr>
<th>No.</th>
<th>Module name</th>
<th>Type of instruction</th>
<th>ZV</th>
<th>Sem.</th>
<th>SWS</th>
<th>Credits</th>
<th>Type of Examination</th>
<th>Language of instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.N.</td>
<td>Immersion Project with Introduction</td>
<td>2S/8Ü</td>
<td>1</td>
<td>10</td>
<td>15</td>
<td>research paper</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>N.N.</td>
<td>Technology and Society</td>
<td>8S</td>
<td>1</td>
<td>8</td>
<td>12</td>
<td>research paper</td>
<td>E</td>
<td></td>
</tr>
</tbody>
</table>

**Research Practice**

<table>
<thead>
<tr>
<th>N.N.</th>
<th>Module name</th>
<th>Type of instruction</th>
<th>ZV</th>
<th>Sem.</th>
<th>SWS</th>
<th>Credits</th>
<th>Type of Examination</th>
<th>Language of instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.N.</td>
<td>Methods in STS</td>
<td>3S</td>
<td>2</td>
<td>3</td>
<td>6</td>
<td>research paper</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>N.N.</td>
<td>Practicing Research in STS</td>
<td>3Ü</td>
<td>3</td>
<td>3</td>
<td>6</td>
<td>project work</td>
<td>E</td>
<td></td>
</tr>
</tbody>
</table>

**STS-STEM (German: MINT)**

<table>
<thead>
<tr>
<th>N.N.</th>
<th>Module name</th>
<th>Type of instruction</th>
<th>ZV</th>
<th>Sem.</th>
<th>SWS</th>
<th>Credits</th>
<th>Type of Examination</th>
<th>Language of instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.N.</td>
<td>STS-STEM</td>
<td>1,5Ü + 1,5 V</td>
<td>2</td>
<td>3</td>
<td>6</td>
<td>project work</td>
<td>E</td>
<td></td>
</tr>
</tbody>
</table>

**Master’s Blog & Science School**

<table>
<thead>
<tr>
<th>N.N.</th>
<th>Module name</th>
<th>Type of instruction</th>
<th>ZV</th>
<th>Sem.</th>
<th>SWS</th>
<th>Credits</th>
<th>Type of Examination</th>
<th>Language of instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.N.</td>
<td>Master’s Blog &amp; Science School</td>
<td>3S</td>
<td>3</td>
<td>3</td>
<td>7</td>
<td>research paper</td>
<td>E</td>
<td></td>
</tr>
</tbody>
</table>

**Internship**

<table>
<thead>
<tr>
<th>N.N.</th>
<th>Module name</th>
<th>Type of instruction</th>
<th>ZV</th>
<th>Sem.</th>
<th>SWS</th>
<th>Credits</th>
<th>Type of Examination</th>
<th>Language of instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.N.</td>
<td>Internship</td>
<td>3S</td>
<td>3</td>
<td>2</td>
<td>17</td>
<td>project work</td>
<td>E</td>
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</tr>
</tbody>
</table>
Elective modules

Term Break Courses (6 Credits)

6 credits must be earned in the module Term Break Courses.

<table>
<thead>
<tr>
<th>N.N.</th>
<th>Course 1: Moderation</th>
<th>2Ü</th>
<th>1.2</th>
<th>2</th>
<th>3</th>
<th>research paper</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.N.</td>
<td>Course 2: Statistics</td>
<td>2Ü</td>
<td>1.2</td>
<td>2</td>
<td>3</td>
<td>research paper</td>
<td>E</td>
</tr>
<tr>
<td>N.N.</td>
<td>Course 3: Writing</td>
<td>2Ü</td>
<td>1.2</td>
<td>2</td>
<td>3</td>
<td>research paper</td>
<td>E</td>
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</tbody>
</table>

Elective Modules: STS (15 Credits)

15 credits must be earned in the elective module STS. At least 4 modules will be offered in the summer semester.

<table>
<thead>
<tr>
<th>No.</th>
<th>Module name</th>
<th>Type of instruction</th>
<th>ZV</th>
<th>Sem.</th>
<th>SWS</th>
<th>Credits</th>
<th>Type of Examination</th>
<th>Language of instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>N.N.</td>
<td>STS: Biomedicine &amp; Health</td>
<td>2S</td>
<td>2</td>
<td>2</td>
<td>5</td>
<td>research paper</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>N.N.</td>
<td>STS: Co-construction of Technology &amp; Users</td>
<td>2S</td>
<td>2</td>
<td>2</td>
<td>5</td>
<td>research paper</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>N.N.</td>
<td>STS: Epistemology &amp; Ontology</td>
<td>2S</td>
<td>2</td>
<td>2</td>
<td>5</td>
<td>research paper</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>N.N.</td>
<td>STS: Media &amp; Digital Cultures</td>
<td>2S</td>
<td>2</td>
<td>2</td>
<td>5</td>
<td>research paper</td>
<td>E</td>
<td></td>
</tr>
</tbody>
</table>

Master’s Thesis

<table>
<thead>
<tr>
<th>N.N.</th>
<th>Master’s Thesis (plus presentation)</th>
<th>Thesis</th>
<th>Practicing Research</th>
<th>4</th>
<th>1</th>
<th>30</th>
<th>d/e</th>
</tr>
</thead>
</table>

Credit total for each semester:
<table>
<thead>
<tr>
<th>Semester</th>
<th>Credits Required modules:</th>
<th>Credits Elective modules</th>
<th>Credits Master’s Thesis</th>
<th>Total Credits</th>
<th>No. of exams</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>27</td>
<td>3</td>
<td></td>
<td>30</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
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<td>4</td>
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<td></td>
<td>30</td>
<td>30</td>
<td>1</td>
</tr>
</tbody>
</table>
Appendix 2: Aptitude Assessment

Aptitude assessment for the master’s program in Responsibility in Science, Engineering and Technology (RESET) at the Technical University of Munich

1. Purpose of the Assessment

Eligibility for the master’s program in Responsibility in Science, Engineering and Technology (RESET), in addition to the requirements pursuant to § 36 (1) no. 1, requires proof of aptitude pursuant to § 36 (1) no. 3 in accordance with the following provisions. The special qualifications and skills of the candidates should correspond to professions in the areas of research, decision-making competency and/or communication in emerging socio-technical fields, such as sustainable energy production, biotechnology, biomedical health care, Internet of Things, Big Data and urban infrastructure. Individual aptitude parameters are:

1.1 ability to do research work and/or basic research and methodological work;
1.2 an undergraduate degree/bachelor-level knowledge in one of the disciplines specified in § 36 Subsection. 1 No. 1.
1.3 particular aptitude for fields of investigation at the intersection of the engineering, natural, social and human sciences.
1.4 above average verbal and written language skills.

2. Aptitude Assessment Process

2.1 The aptitude test will be held annually by the TUM School of Governance.

2.2 Applications for admission 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 2.3.4. and in § 36 Subsection 1 No. 2 no later than 31 May (absolute deadline) using the online application procedure. Documents listed in 2.3.1. through 2.3.5 and in § 36 Subsection 1 No. 2 that could not be submitted by the deadline specified in sentence 1 due to circumstances beyond the applicant’s control may be submitted by 15 August (absolute deadline). Grade record and degree certificate must be filed no later than five weeks after the beginning of lectures. Admission to the elite 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 120 credits. 90 credits thereof must be earned through examinations. For programs not subject to the European Credit Transfer and Accumulation System (ECTS), the transcript of records must contain at least two-thirds of the credits required for the undergraduate degree, at least 50% of which must be credits earned through examinations. The transcript of records should indicate, if possible, the relative weights of individual subjects with regard to grading and expenditure of time. The transcript of records must be issued by the relevant examination authority or academic programs office.

2.3.2 English-language curriculum vitae formatted as a table.

2.3.3 An English-language written statement (1- 2 DIN A4 pages) of the reasons for choosing the elite master’s program Responsibility in Science, Engineering and Technology (RESET) at the Technical University of Munich 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, practica, stays abroad, or program-related further education beyond the attendance and course requirements of the bachelor’s program, if necessary by appropriate documentation.

2.3.4 An English-language essay of 1 - 3 DIN A4 pages. The chair of the commission may propose one or more essay topics. Applicants are to be informed of proposed topics no later than 15 December.
2.3.5 a declaration that both the statement of the reasons for choosing the program and the essay are the candidate’s own work, and that the candidate has clearly identified any ideas taken from outside sources;

3. Aptitude Assessment Commission

3.1 The aptitude assessment process is administered by a commission that, as a rule, consists of the dean for academic affairs in charge of the RESET master’s program, at least two members of the professorial faculty and at least one research associate (wissenschaftlicher Mitarbeiter). At least half of the commission members must be members of the professorial faculty. A representative of the student body will be a part of the commission, in an advisory capacity.

3.2 The members of the commission are appointed by the faculty council (Fakultätsrat) in consultation with the dean of studies. At least one member of the professorial faculty is appointed as deputy member of the commission. As a rule, the commission is chaired by the dean of studies. Procedural regulations will be in accordance with Art. 41 of the BayHSchG as last amended.

4. Admission to the Aptitude Assessment Process

4.1 Admission to the aptitude assessment process requires that all documentation specified in no. 2.3 has been submitted in a timely and complete fashion.

4.2 Applicants who have fulfilled the requirements will be assessed according to no. 5.

4.3 Applicants who are not admitted will receive a notification specifying the reasons and providing information on legal remedies.

5. The Aptitude Assessment Process

5.1 First Stage:

5.1.1 The commission will assess, 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). For this purpose, the commission evaluates and grades the candidate’s documentation on a scale ranging from 0 to 59 points, 0 being the worst and 59 the best possible result.

The following criteria will be applied to the evaluation:

1. Discipline-Specific Skills and Qualifications

   For the purpose of curricular analysis, a schematic comparison of modules, as well as of competencies is conducted. This analysis is focused on the academic subjects listed in the table below:

<table>
<thead>
<tr>
<th>Academic subject area</th>
<th>ECTS or ECTS equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methods of social science</td>
<td>10</td>
</tr>
<tr>
<td>Theories of social, political and cultural science</td>
<td>10</td>
</tr>
<tr>
<td>History and philosophy</td>
<td>10</td>
</tr>
</tbody>
</table>

   For each recognized credit in one of these academic subject areas, the applicant is awarded 1 point, whereby a maximum of 10 point may be awarded in any one area. Points earned in each area will be added together, whereby a maximum of 15 points may be awarded for the entire curricular analysis.

   Negative points will not be awarded. Applicants are required to submit module descriptions (or their equivalent) providing details of course content/learning outcomes and applied fields (e.g. Science, technology, society) for relevant courses.

2. Final Grade

   The applicant will be awarded one point for each two tenths that the average calculated from examinations in the amount of 90 credits, or, in case of programs not subject to the "European Credit Transfer and Accumulation System" (ECTS), the average calculated from 50% of the examinations
required for the first degree, is better than 4.0. 3 The maximum number of points is 15. 4 Negative points will not be awarded. 4 If the candidate has submitted a degree certificate containing more than 120 credits with the application, the assessment will be made on the basis of the best graded modules in the amount of 90 credits or, as the case may be, 50% of the examination results required for the first degree. 5 The applicant needs to submit a list of the results together with the application and confirm their accuracy in writing. 6 The overall grade average is calculated as a weighted grade average. 7 The grade weights of the individual modules correspond to the credits assigned to each module.

5.1.2 Letter of motivation

1 The applicant’s written statement of purpose will be evaluated by two committee members and graded on a scale of 0 – 12 points. 2 The motivation letter will be assessed using the following criteria:

1. ability to apply rules of English grammar and spelling, to linguistically emphasize important points of their reasoning in an appropriate way, to phrase the reason for their application in a matter-of-fact yet appealing way,
2. ability to convincingly prove his or her special aptitude for the master’s program by giving arguments and meaningful examples, such as vocational training, practica, stays abroad (cf. No. 2.3.3.) specifically related to program content,
3. ability to describe the relationship between their personal interests and the content of the degree program in a well-structured manner.

2 The committee members assess each of the three criteria independently, awarding a maximum of 4 points. 3 The points total will be calculated as the arithmetic means of the individual evaluations (rounded up to the next whole number).

5.1.3 Essay

1 The essay will be evaluated by two committee members and graded on a scale of 0 – 17 points using the following criteria:

1. ability to apply rules of English grammar and spelling, to linguistically emphasize important points of their reasoning in an appropriate way,
2. ability to identify, describe and critically reflect on complex relationships between technology, science and society using specific examples,
3. ability to clearly formulate relevant questions,
4. ability to draft adequate research strategies.

2 The committee members assess each of the four criteria independently, awarding a maximum of 2 points for criterion 1 and a maximum of 5 points for criteria 2, 3 and 4. 3 The points total will be calculated as the arithmetic means of the individual evaluations (rounded up to the next whole number).

5.1.4 Suitable applicants with a total of at least 50 points will receive confirmation that they have passed aptitude assessment. 3 In those cases where it is determined that only some subject-specific requirements for the master’s program are missing from undergraduate studies, the aptitude assessment commission may require that applicants complete specific courses as additional requirements. 3 These additional requirements must be successfully completed in the first year of study.

5.1.5 Applicants not suited for the program, with a total of 30 points or fewer, will receive a letter of rejection signed by the president of the university stating the grounds for rejection and informing them of legal remedies. 2 Signatory power may be delegated.

5.2 Second Stage:

5.2.1 The remaining applicants will be invited for an aptitude assessment interview. 3 Interview appointments will be announced at least one week in advance. 3 Time slots for interviews must be scheduled before expiration of the application deadline. 4 The interview appointment must be kept by the applicant. 5 If the applicant is unable to attend an aptitude assessment interview due to reasons
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: The applicant possesses relevant qualifications beyond the skills and knowledge acquired during bachelor’s studies, such as vocational training, practica, stays abroad (cf. No. 2.3.3.) specifically related to program content.

2. Detailed discussion of the bachelor’s thesis and/or other work completed to date.

3. Understanding of the complex relationships between science, technology and society, as well as the ability to critically reflect on discipline-specific questions (using the outline of a research project chosen by the applicant).

4. Applicants will be evaluated, for example, on their ability to convincingly demonstrate information using arguments and meaningful examples and appropriately respond to interview questions.

The above topics may cover the documentation submitted pursuant to 2.3. 5Any subject-specific academic knowledge that is to be taught in the Responsibility in Science, Engineering, and Technology (RESET) master’s program 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 The aptitude assessment interview will be conducted by at least two members of the commission. 2Each member will grade each of the four interview topics. Topics 1,2 and 3 can be graded with a maximum of 7 points respectively and topic 4 with a maximum of 8 points. 3Each member will grade each of the five interview topics on a scale from 0 to 29, 0 being the worst and 29 being the best possible result. The points total of the assessment interview is calculated as the arithmetic means of the individual member’s assessments. 4Decimal places must be rounded up.

5.2.4 The applicant’s points total will be the sum of the points earned in 5.1.1 (curricular analysis: 0-15, final grade: 0-15) and 5.2 2 (interview 0-29 points). 2Applicants with 40 or more points will be deemed suitable. 3In those cases where it is determined that only some subject-specific requirements for the master’s program are missing from undergraduate studies, the aptitude assessment commission may require that applicants complete specific courses as additional requirements. 4These additional requirements must be successfully completed in the first year of study.

5.2.5 The applicant will be notified of the result of the aptitude test determined by the commission in writing. 2The notice must be signed by the TUM Board of Management. 3Signatory 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 Responsibility in Science, Engineering, and Technology (RESET) master’s program shall apply to all subsequent applications for this program.

6. Record

The aptitude assessment process must be documented, including the date, duration and location of the assessment, the names of the commission members, the applicant’s name, and the decision of the members of the commission as well as the complete results. 2This record must contain the essential reasons for the decision and the topics discussed at the interview held with the applicants; these reasons and topics may be recorded in note form.

7. Repetition

Applicants who have failed the aptitude test for the Responsibility in Science, Engineering, and Technology (RESET) master’s program may register for one repetition of the Aptitude Assessment Test.