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Master EER Programme-specific appendix PSTS 2022-2023

Programme-specific appendix to the  
Education and Examination Regulations (EER)  
2022-2023

For the Master of Science programme  
Philosophy of Science, Technology and Society (PSTS)

September 2022

# UNIVERSITY OF TWENTE.

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## 1. General provisions

### 1.1. Admission to the programme

Students can be admitted to the master PSTS if they satisfy the following requirements:

Admission requirements	As evidenced by
<p>Bachelor's degree or equivalent in: (Applied) Natural Science, Engineering Science, Social Science, Philosophy, or any other discipline, with an emphasis on (social) science or technology and a focus on the application of technology in a particular professional area or on technical interventions in social systems.</p> <p>Owing to the COVID-19 pandemic, the UT makes use of the possibility opened by the Dutch Ministry of OCW to soften the so-called "bachelor-before-master-rule" temporarily. This means for PSTS that a student can be admitted to the programme under the following requirements: 1) maximum 15 EC delay in the bachelor 2) the bachelor should be finished by 1-9-2023</p>	<p>Bachelor or equivalent diploma</p>
<p>Sufficient affinity with (reflection on) science and technology</p>	<p>Motivational letter</p>
<p>Sufficient mastery of the English language. (Dutch applicants as well as applicants from the UK, Ireland, USA, Australia, New Zealand and the English-speaking part of Canada are exempted from this requirement.)</p>	<p>An IELTS minimum score of 6.5 on the IELTS or an internet based TOEFL (iBT) minimum score of 90.</p>
<p>Sufficient entry-level academic skills, including skills in reading, writing, textual analysis and critical reflection</p>	<p>Writing assignment, showing</p> <ul style="list-style-type: none"> <li>- Academic writing skills</li> <li>- Understanding the theoretical framework(s) that is/are presented by the author(s)</li> <li>- Ability to formulate properly a line of thought</li> </ul>

	<ul style="list-style-type: none"><li>- Understanding of a technological development of your own choice</li><li>- Ability to reflect on one's own position towards the subject</li><li>- Ability to come to a conclusion.</li></ul>
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An Admission Committee assesses whether a student applying for admission to the programme satisfies these criteria. This Committee consists of two staff members who are examiners in the programme; and they are assisted by employees from the Faculty's Educational Service Centre.

## 1.2. Language of the programme

Due to the international character of the MSc programme Philosophy of Science, Technology and Society, the language of communication in the programme is English. This means that:

- All study materials are in English
- All classes (lectures, seminars, workshops, practicals, and others) are taught in English
- All written exams and tests are in English, and all papers have to be submitted in English
- All presentations (including the Final Presentation) are prepared in English

## 1.3. Connecting Masters' programme(s)

Not applicable.

## 1.4. Rights, duties and composition of the programme committee

In line with article 9.18 WHW, each programme has a programme committee, which has the duty to advise programme management on improving and safeguarding the quality of the programme. It has a right of consent regarding a number of topics in the Education and Examination Regulations (EER), e.g., the goals and intended learning outcomes of the programme in terms of knowledge, insight and skills that a student should have acquired at the end of the programme; where necessary the layout of practical exercises; the study load of the programme and its study units. In addition, the programme committee evaluates on a yearly basis the manner in which the EER has been carried out and has the right to advise programme management and the dean – invited or uninvited – on all matters relating to the teaching in the programme.

The composition of the current programme committee can be found here:

<https://www.utwente.nl/en/psts/programme-committee/>).

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## 2. Contents and structure of the programme

### 2.1. Contents and structure of the programme

This section lists the composition (structure and content) of the regular PSTS programme, as well as the composition of the “Ethics and technology”-track and the double degree programmes with Business Administration (BA), Communication Studies (COM) and Public Administration (PA).

The table below shows the courses that make up the regular PSTS programme in EC (1 EC = 28 hours of study load) per study unit. The generic structure of the (full-time) programme is as follows:

YEAR 1			
Semester 1		Semester 2	
Q1	Q2	Q3	Q4
Philosophy of Technology (201200063) 5 EC	Philosophy of Science in Practice (201400573) 5 EC	TechnoLab (202000252) 5 EC	PhiloLab (202000253) 5 EC
Science and Technology studies (201200064) 5 EC	History of Science and Technology (201400574) 5 EC	Philosophical Anthropology and Technology (191612550) 5 EC	Technology and Social Order (191622510) 5 EC
Philosophical Theories and Methods (201200059) 5 EC	Ethics and Technology 1 (191612540) 5 EC	Society, Politics and Technology (191612560) 5 EC	Ethics and Technology 2 (191612580) 5 EC
PSTS Skills portfolio (202000102) 0 EC			
8 attended colloquia (202200273) 0 EC			

YEAR 2			
Semester 1		Semester 2	
Q1	Q2	Q3	Q4
<i>Advice: choose 3 out of 4 electives:</i>	<i>Advice: choose 2 out of 4 electives:</i>	Master's Thesis 30 EC (201300088)  OR	
Technologies in Use (201800145) 5 EC	Anticipation and Evaluation of Emerging Technologies (201800149) 5 EC		
Transformation of Knowledge in a Digital Age (201800146) 5 EC	Minds, Bodies and Technologies (201800150) 5 EC		

Technologies and Discourse (202100093) 5 EC	Rethinking Science-Technology Relations (201800151) 5 EC	Internship 10 EC (201300090) Master's Thesis 20 EC (201300089)
Good Technology for Users and Society (201800148) 5 EC	Ethics and Epistemology of AI: Minds, machines, and society (202200010) 5 EC	
MasterLab (202000254) 5 EC		
PSTS Skills Portfolio (202000102) 0 EC		
8 attended colloquia (202200273) 0 EC		

**Table 1: Curriculum PSTS 2022-2023**

## Year #1

All students take the twelve (12) obligatory courses (in total 60 EC) of the first year's programme. In parallel, students start their **PSTS Skills Portfolio** which spans year #1 and year #2\*. Starting from the skills training in the PSTS courses and under guidance from an academic mentor, the PSTS Skills Portfolio both fosters and monitors students' achievement of the core PSTS skills. Assessment of the PSTS Skills Portfolio is incremental and largely formative, based on the PSTS core skills rubric. Using this rubric, all course teachers provide the student with a formative assessment of his/her performance regarding the skills relevant to a specific course. Students upload these assessments and feedback in their electronic portfolio, alongside the underlying work products. Participation in research colloquia will also be an integral part of the skills portfolio. The mentor regularly checks the portfolio content and discusses with the student which skills have not been sufficiently mastered yet and how to work towards these. In addition, students in consultation with the mentor also formulate personal skills learning objectives. To complete the PSTS Skills Portfolio, students should complete two components: a written reflection and materials that reflect the skills selected from courses in the PSTS program. The PSTS Skills Line is graded as a Pass/Fail.

## First semester of year #2

Students take five out of the eight (elective PSTS-courses (in total 25 EC). The elective options in the regular PSTS programme imply that all students can freely select (at least) five courses from the eight PSTS elective courses offered in the 1<sup>st</sup> semester of the 2<sup>nd</sup> year.

Besides these, the Examination Board has already approved two alternative courses from other UT programmes (201100777 Policy Analysis in Public and Technological Domains, and 201600012 Management and Governance of Innovation and Creativity).

In case a student opts for other courses besides the PSTS electives, he/she has to submit a written request to the programme management.

In parallel, students take the obligatory MasterLab (5 EC) course which spans both the 1<sup>st</sup> and 2<sup>nd</sup> semester. Moreover, students continue and finalize their PSTS Skills Portfolio.

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## Second semester of year #2

Students work on their master's thesis of either 20 EC plus a 10 EC internship, or 30 EC.

### 2.2. Study load

The study load in the full-time, regular PSTS programme is 120 EC. Both study years are 60 EC each.

The programme for the part-time variant is identical to the full-time programme and 120 EC in total. Part-time students will take a longer period, usually 4 years, to complete the programme.

The study load of the PSTS programme when taking the Ethics and Technology track, described in paragraph 1b above, also entails 120 EC (two years of 60 EC each).

The study load of the double degree programmes (the PSTS Link-trajectories) is as follows:

- PSTS Link with the UT master's degree programme Business Administration (PSTS-Link-BA): 120 EC (two years of 60 EC each);
- PSTS Link with the UT master's degree programme Public Administration (PSTS-Link PA): 120 EC (two years of 60 EC each).

### 2.3. Programme-specific characteristics

The programme for the part-time variant is identical to the full-time programme and also 120 EC in total. Part-time students will take a longer period, usually four years, to complete the programme.

### 2.4. Honours programme/STAR programme

For excellent students, the University of Twente offers several different extra-curricular master's honours programmes of 15 EC each.

More information on these programmes and the corresponding selection procedures can be found at the UT honours programmes website <https://www.utwente.nl/en/excellence/master/>

### 2.5. Elective options

In quartile one and quartile two of the second year of the curriculum students choose their elective courses. This is described in 2.1.

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## 2.6. Joint/double degrees and/or international cooperation and agreement(s)

### 2.6.1. Ethics and Technology Track

As an alternative to the regular PSTS programme, students may apply for the “Ethics and Technology” track.

#### **Ethics and Technology track**

After having taken the year #1 curriculum of the regular PSTS programme, students can opt for a special “Ethics and Technology”-track that is offered in collaboration with the 4TU.Centre for Ethics and Technology (4TU.Ethics). This is a one-year track consisting of 30 EC of advanced courses in ethics and technology and a 30 EC master’s thesis in ethics of technology. Students taking the Ethics and Technology track graduate as regular PSTS students, but with the distinction of having taken the 4TU Ethics-approved Ethics and Technology track.

Students in the “Ethics and Technology”-track take the following 2<sup>nd</sup> year courses from the PSTS programme:

- Good Technology for Users and Society (Quartile 1)
- Anticipation and Evaluation of Emerging Technologies (Quartile 2)
- Minds, Bodies and Technologies (Quartile 2)
- MasterLab (Quartiles 1-4)
- PSTS Skills Portfolio (Quartiles 1-4)

If these courses provide a specific “Ethics and Technology” track assignment, students in this track need to take that specific assignment.

In addition, students in the “Ethics and Technology”-track take two of the three following listed courses offered by the 4TU.Ethics graduate programme for which students need to register themselves through the OZSW website:

- LC1 Philosophy of Risk (TU/e) - A full-time 5-day week in Q1;
- LC2 Philosophy of Responsible Innovation (WUR/TUD) - A full-time 5-day week in Q2;
- LC8 Design for Values (TUD) - A full-time 5-day week in Q1.

Upon approval by the director of the 4TU.Ethics graduate school and the PSTS programme management, students may substitute one of the above mentioned courses by a course offered by the Dutch Research School of Philosophy (<https://www.ozsw.nl/phd-rema-student-program-2/>).

#### *Admission to and exit from the Ethics and Technology track*

Students can apply for admission to the “Ethics and Technology”-track at the end of the first year of the PSTS programme. Decisions about admission and exit are taken by the track’s programme director. The Ethics and Technology track has the following admission requirements:



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- At the start of the track, students should have completed at least 55 EC from the first year of PSTS, including the courses 'Ethics and Technology 1', 'Ethics and Technology 2', and 'Society, Politics and Technology'.
- An average grade of  $\geq 7.5$  for the three courses 'Ethics and Technology 1', 'Ethics and Technology 2', and 'Society, Politics and Technology'. If the grade for 'Ethics and Technology 2' is not available in time for admission, admission can also be granted on the basis of an average grade of  $\geq 7.5$  for 'Ethics and Technology 1' and 'Society, Politics and Technology' plus an average grade of  $\geq 7.5$  for all completed PSTS courses, or an average grade of  $\geq 8.0$  for 'Ethics and Technology 1' and 'Society, Politics and Technology'.

Once being admitted to the "Ethics and Technology"-track, students have to be aware that their academic achievement has to meet specific standards. In case students do not meet these standards, they will have to leave the track (and they will proceed in the regular PSTS programme).

These standards are:

- Having completed the course Good Technologies for Users and Society (201800148) before the start of quartile 1B.
- Having completed the courses Anticipation and Evaluation of Emerging Technologies (201800149) AND Minds, Bodies and Technologies (201800150) before the start of quartile 2A.
- When these three above mentioned courses have been completed, their average score should be at least a 7.5.

Information on this track can also be found on the website: [Curriculum & Manuals | 2nd year Ethics and Technology track and PhD Programme connected to PSTS | Programme information for current students & employees PSTS \(utwente.nl\)](#)

## 2.6.2. Double Degree Link Trajectories

In addition, students may opt for one of the double degree programmes as stipulated in paragraph 1c above. These PSTS-Link trajectories lead to a double MSc degree.

In 2021-2022 the PSTS programme offers two **Link trajectories**:

- PSTS Link with the UT master's degree programme Business Administration (PSTS-Link BA, 120 EC)
- PSTS Link with the UT master's degree programme Public Administration (PSTS-Link PA, 120 EC)

Students who have started with the standard PSTS curriculum can switch to one of the PSTS Link trajectories until the end of the Q2 of the first year, because the first course from the partner programme will be taken in Q3, provided they are admitted to the partner programme.

## Curriculum double degree programme PSTS-Business Administration (BA) 2022-2023

YEAR 1			
Semester 1		Semester 2	
Q1	Q2	Q3	Q4
Philosophical Theories & Methods (201200059, 5 EC)	Ethics & Technology 1 (191612540, 5 EC)	TechnoLab (202000252, 5 EC)	PhiloLab (202000253, 5 EC)
Science & Technology Studies (201200064, 5 EC)	History of Science & Technology (201400574, 5 EC)	Society, Politics & Technology (191612560, 5 EC)	Technology & Social Order (191622510, 5 EC)
Philosophy of Technology (201200063, 5 EC)	Philosophy of Science in Practice (201400573, 5 EC)	Strategic Technology Management & Innovation (201600015, BA profile, 5 EC)	Ethics & Technology 2 (191612580, 5 EC)
PSTS Skills Portfolio (202000102, 0 EC)			
8 attended colloquia (202200273, 0 EC)			

YEAR 2			
Semester 1		Semester 2	
Q1	Q2	Q3	Q4
Entrepreneurial Leadership & Responsible Organizational Design (201600002, 5 EC)	Anticipation and Evaluation of Emerging Technologies (201800149, 5 EC)	Masterclass BA (201400018, BA core for double degrees, 5 EC)	combined  Final Thesis Project (201900178, 25 EC)
International entrepreneurship – a Strategic Technology Perspective (201600011, 5 EC)	Business Valuation and Corporate Governance (201800089, 5 EC)	MasterLab (202000254, 5 EC)	
Management and Governance of Innovation and Creativity (201600012, 5 EC)			
PSTS Skills Portfolio (202000102, 0 EC)			
8 attended colloquia (202200273, 0 EC)			

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## Curriculum double degree programme PSTS-Public Administration 2022-2023

YEAR 1			
Semester 1		Semester 2	
Q1	Q2	Q3	Q4
Philosophical Theories & Methods (201200059, 5 EC)	Ethics & Technology 1 (191612540, 5 EC)	TechnoLab (202000252, 5 EC)	PhiloLab (202000253, 5 EC)
Science & Technology Studies (201200064, 5 EC)	History of Science & Technology (201400574, 5 EC)	Public Governance and Legitimacy (194101070, 5 EC)	Technology & Social Order (191622510, 5 EC)
Philosophy of Technology (201200063, 5 EC)	Philosophy of Science in Practice (201400573, 5 EC)	Society, Politics & Technology (1916125605, 5 EC)	Ethics & Technology 2 (191612580, 5 EC)
PSTS Skills Portfolio (202000102, 0 EC)			
8 attended colloquia (202200273, 0 EC)			

YEAR 2			
Semester 1		Semester 2	
Q1	Q2	Q3	Q4
Social Problems (194106090, 5 EC)	Anticipation and Evaluation of Emerging Technologies (201800149, 5 EC)	Deliberative Governance of Knowledge & Innovation (201100076, 5 EC)	
Technologies and Discourse (202100093, 5 EC) <b>OR</b> Policy Analysis in Public & Technological Domains (201100077, 5 EC)	PA Academic Research (201500145, 5 EC) <b>OR</b> PSTS MasterLab (202000254, 4 EC)*	Public Governance and Policy Networks (194111240, 5 EC)	
PSTS MasterLab (202000254, 1 EC)*			
Public Management: Research & Applications (201400089, 5 EC)	combined Final Thesis Project (201900179, 25 EC)		
PSTS Skills Portfolio (202000102, 0 EC)			
8 attended colloquia (202200273, 0 EC)			

Note: PSTS-PA double degree students are advised to start PSTS MasterLab in Q1 and to decide at the end of Q1 whether they will continue in MasterLab or switch to PA Academic Research.

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2.7. Pre-master's programme  
Not applicable.

## 3. Programme objectives and intended learning outcomes

### 3.1. Programme objectives

PSTS is an English language master programme in the philosophy of a scientific domain, focusing on philosophy of technology. PSTS educates students to analyse, reflect on and assess the mutual interaction between science and technology, on the one hand, and human beings, values and societies, on the other. The orientation of the programme is partly analytical and interpretative (understanding the way in which scientific and technological artefacts and practices shape, and are themselves shaped by, society and culture) and partly *normative* (providing evaluations and assessments of scientific developments, technologies and their correlated social and cultural impacts). The programme is developed from a broad conception of philosophy of technology, in which both traditional philosophical, as well as interdisciplinary and empirical approaches and methods, such as Science and Technology Studies (STS), are crucial to foster proper reflection.

### 3.2. Intended learning outcomes

The programme's Final Qualifications are the following:

#### **Knowledge**

- |     |   |
|-----|---|
| K1. | Extensive knowledge of the philosophy of technology, including its philosophical and STS approaches, and the ability to relate these approaches to each other.  |
| K2. | Good knowledge of the various philosophical subfields, including ethics of technology, social and political philosophy of technology, philosophical anthropology of technology, epistemology and metaphysics of technology, and philosophy and history of (engineering) science and technology. |
| K3. | Good knowledge of approaches and themes in STS.   |
| K4. | Good knowledge of empirical research methods in STS and philosophical research methods.   |
| K5. | A basic understanding of the relation between the philosophy of technology, including its various subfields, methods and history, to general philosophy, including its various subfields, methods and history.  |
| K6. | Specialist knowledge of a sub-domain or specialized topic within the philosophy of technology (broadly defined).  |

#### **Skills**

- |     |  |
|-----|--|
| S1. | Writing and verbal communication skills.   |
| S2. | Skills in reasoning and arguing and in the analysis of arguments.  |
| S3. | Skills in locating, reading and analysing scientific texts from various disciplines in philosophy and STS, as well as professional and popular texts, that reflect on technology, engineering sciences, technological developments, and the relationship between technology and society. |

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- S4. Skills in the identification and analysis of problems related to the role of technology and science in society, and the ability to formulate a position with regard to these problems from a philosophical and/or STS perspective.
- S5. The ability to perform original scientific research in the field of philosophy of technology, using philosophical and/or STS methods. This includes the ability to arrive at a well-considered problem formulation, the selection and development of appropriate theories and (empirical) methodologies, and the proper execution of a research plan.
- S6. Skills in the comparison of differing scientific approaches or paradigms in a sub-domain or specialized topic, the application of these approaches, and the ability to critically analyse them.
- S7. The ability to generate philosophical and/or STS research results that are relevant for scientific, technological, and/or social practices.
- S8. The capacity to collaborate with and communicate research results and solutions to scientists in- and outside one's own academic field, as well as professionals from societal domains and the ability to generate learning processes from that interaction and collaboration.
- S9. Reflective capacity pertaining to one's own work, selecting or altering course, and the ability to translate learning trajectories into the development of more general knowledge and methods.
- S10. Capable to endeavour a career inside or outside of academia wherein philosophical and STS knowledge and skills are required.

These final qualifications are well aligned with the Dublin descriptors (an international benchmark for what completion of master level should entail). This implies that PSTS graduates should be capable to function on a master's level.

## 4. Assessment/examination

### 4.1. Final examination

Apart from the course-specific exams, the PSTS programme has one examination, i.e., the master's examination after two years. The master's examination is deemed to have been successfully completed if all exams of the agreed units of study, including the Final Project (master's thesis) and the PSTS Skills Portfolio, have been successfully completed.

### 4.2. Assessment format interim examinations/tests

The assessment formats of each of the study units in the PSTS programme is shown in the table below. Written tests are individual, unless specified otherwise. The weight attributed to each of the exam components is stipulated in the course's electronic learning environment (Canvas) and made public before the start of the course.

Note:

In addition to Article 3.3 of the BMS EER, in the PSTS master's programme the following applies:

If a study unit has been completed successfully (final grade 6 or more) then this grade is final. If a student (due to exceptional circumstances) would like to improve the grade, he/she has to submit a motivated request to the Examination Board.

### Course list PSTS 2022-2023, year #1

<b>Semester 1</b>		
<b>Code</b>	<b>Name (+ study load)</b>	<b>Mode of assessment</b>
201200063	Philosophy of Technology	Written exam and assignment
201200064	Science and Technology Studies	Assignments, presentation
201200059	Philosophical Theories and Methods	Midterm take-home exam, final exam, reflection paper,
201400573	Philosophy of Science in Practice	Individual assignment, group reflection report, group presentation
201400574	History of Science and Technology	Assignments,
191612540	Ethics and Technology 1	Midterm, take-home exam, individual assignment
<b>Semester 1+2</b>		
202000102	PSTS Skills Portfolio	Participation and written assignments
<b>Semester 2</b>		
<b>Code</b>	<b>Name (+ study load)</b>	<b>Mode of assessment</b>
202000252	TechnoLab	Group assignment, individual assignment

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191612550	Philosophical Anthropology and Technology	Take home exam, assignment
91612560	Society, Politics and Technology	Presentation, 2 written exams
202000253	PhiloLab	Group paper, individual assignments
191622510	Technology and Social Order	Assignments
191612580	Ethics and Technology 2	Written exam, assignments

## Course list PSTS 2022-2023, year #2

<b>Semester 1</b>		
<b>Code</b>	<b>Name (study load)</b>	<b>Mode of assessment</b>
201800145	Technologies in Use	Group assignment, individual assignment, participation
201800146	Transformations of Knowledge in a Digital Age	Assignments, presentation
202100093	Technologies and Discourse	Assignments
201800148	Good technology for Users and Society	Presentation, assignment
201800149	Anticipation and Evaluation of Emerging Technologies	Group report, assignments
201800150	Minds, Bodies and Technologies	Assignment, presentation
201800151	Rethinking Science-Technology Relations	Presentation, assignments
202200010	Ethics and Epistemology of AI: Machines, minds and society	Group assignment, Individual assignment
202000102	PSTS Skills Portfolio	Participation and written assignments
<b>Semester 1+2</b>		
202000254	MasterLab	Participation, assignments, thesis proposal
<b>Semester 2</b>		
<b>Code</b>	<b>Name (+ study load)</b>	<b>Mode of assessment</b>
201300090	Brief Internship (10 EC)	Internship report
201300089	Master's Thesis (20 EC)	Thesis, presentation and oral exam
201300088	Master's Thesis (30 EC)	Thesis, presentation and oral exam



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## 4.3. Period of validity of test results

In derogation from the generic rule (Paragraph 3.9 of the UT-BMS-EER), stating that the validity of a result of a study unit has no limitation, the validity of a result of a study unit in the PSTS programme is max. 5 years.

If a student would like to extend the validity of a result of one or more study unit(s) he/she has to send a motivated request to the programme's Examination Board in which the student demonstrates that he/she still possesses the required competences which are connected to the specific study unit(s).

In derogation from the generic rule (Paragraph 3.9 of the UT-BMS EER,) stating that in case a study unit consists of elements that are graded separately (the so-called sub-grades), the validity of these sub-grades is limited till the end of that academic year, the sub-grades in the PSTS courses remain valid until the end of the subsequent academic year.

## 4.4. Maximum number of attempts for tests/interim examinations

Each year, two separate opportunities are offered for taking a written or oral exam associated with a specific study unit.

- Study units and their exams can be offered more than once per academic year. If that is the case students may participate in the exams at a maximum of two occasions
- There is in any case at least one opportunity to sit an exam in the period in which the applicable study unit is taught.

In exceptional individual cases, the examination board may deviate from the number of times and the manner in which exams can be taken.

## 4.5. Specific pass-fail regulations

Passing grades are final

In addition to Article 3.3 of the BMS EER, in the EST master's programme the following applies:

If a study unit has been completed successfully (final unrounded grade 5.5 or more) then this grade is final. If a student feels that there are exceptional circumstances that justify an exemption from this rule (and thus justify an extra opportunity), he/she has to send a motivated written request to the Examination Board. Such an exemption can only be granted once per student.

## 4.6. Prerequisites / required sequence of interim examinations

Course	Prerequisite
<b>YEAR 1 – sem.2</b>	
202000252 TechnoLab (2A)	201200063 Philosophy of Technology 201200059 Philosophical Theories and Methods 201200064 Science and Technology Studies
202000253 PhiloLab (2B)	201200063 Philosophy of Technology 201200059 Philosophical Theories and Methods 201200064 Science and Technology Studies 202000252 TechnoLab
191612580 Ethics and Technology 2 (2B)	191612540 Ethics and Technology I
191622510 Technology and Social Order (2B)	201200064 Science and Technology Studies 201400574 History of Science and Technology
<b>YEAR 2 – sem.1</b>	
Master year #2 courses in general	<u>Min. 40</u> EC year #1 courses
202000254 MasterLab	<u>Min. 50</u> EC year #1 courses, including at least: 202000252 TechnoLab 202000253 PhiloLab
201800145 Technologies in Use (1A)	No additional requirements
201800146 Transformation of Knowledge in a Digital Age (1A)	No formal requirement, but advised: 201200064 Science and Technology Studies 201400573 Philosophy of Science in Practice 201400574 History of Science and Technology 202000252 TechnoLab
202100093 Technologies and Discourse (1A)	No formal requirement, but advised: 201200064 Science and Technology Studies 191622510 Technology and Social order
201800148 Good technology for Users and Society (1A)	No formal requirement, but advised: 191612540 Ethics and Technology 1 191612560 Society, Politics and Technology 191612580 Ethics and Technology 2
201800149 Anticipation and Evaluation of Emerging Technologies (1B)	No formal requirement, but advised: 191612540 Ethics and Technology 1 202000252 TechnoLab 191612580 Ethics and Technology 2
201800150 Minds, Bodies and Technologies (1B)	No formal requirement, but advised: 191612550 Philosophical Anthropology and Technology
201800151 Rethinking Science-Technology Relations (1B)	No formal requirement, but advised: 201200064 Science and Technology Studies

	201400573 Philosophy of Science in Practice 201400574 History of Science and Technology 202000252 TechnoLab
202200010 Ethics and Epistemology of AI: Machines, minds and society	No additional requirements
<b>YEAR 2 – sem.2</b>	
201300088 Master Thesis (30 EC)	<u>Min. 75</u> EC year #1 + #2 courses, including at least: 202000254 MasterLab – 1 <sup>st</sup> semester component
201300090 Internship (10 EC) + 201300089 Master Thesis (20 EC)	<u>Min. 75</u> EC year #1 + #2 courses, including at least: 202000254 MasterLab – 1 <sup>st</sup> semester component

#### 4.7. Examination board

The examination board is the body that determines in an objective and expert manner whether a student meets the conditions set under the Education and Examination Regulations (EER) concerning the knowledge, insight and skills required to obtain a degree. Members of the examination board are appointed by the dean of the faculty.

More information, including the most up-to-date composition of the examination board can be found at its website: [examination boards BMS](#). Alle information for students, examiners, and educational support staff about the examination boards of BMS is published there, including their Rules and Guidelines, and the procedures and conditions for submitting a request.

#### 4.8. Composition Graduation Committee

In derogation from paragraph 5.02 of the Faculty's Rules and Guidelines of the BMS Examination Boards, in the PSTS programme both the 1<sup>st</sup> supervisor and the 2<sup>nd</sup> reader (examiner) of the final project have at least a doctorate degree (PhD).

For each thesis project, there is a supervisor and a 2<sup>nd</sup> reader. The role of the first supervisor is to guide the student through the thesis process. The role of the 2<sup>nd</sup> reader is to confirm the quality of the thesis proposal and the final thesis. Hence, she or he has a limited role in the supervision process: Together with the supervisor, the 2<sup>nd</sup> reader (1) approves the thesis proposal, (2) greenlights the final thesis draft, and (3) is part of the graduation committee.

For specific requirements on the composition of the Graduation Committee for the Double Degree Programmes, see the PSTS graduation guide, appendix E.

## 5. Transitional arrangements

Article 8.4 of the EER 2022–2023 of the Faculty of Behavioural, Management and Social Sciences for master programmes is applicable. This means that if a study unit that does not involve a practical exercise is deleted from the programme, then students (only when exam results from the deleted study unit are registered in the Student Information System) are to be given two opportunities in the following academic year to take the relevant exam, either orally or in writing, or to undergo another form of assessment

## 6. Other topics

### 6.1. Binding recommendation on continuation of studies

Before starting year #2 courses, students need to have completed at least 40 EC (out of 60 EC) of the year #1 courses. In order to start MasterLab and the thesis trajectory, students must have obtained at least 50 EC of the year #1 courses. Before the start of the 2<sup>nd</sup> year the students will receive a personal study progress report from the PSTS study adviser, stating the number of EC the student has obtained and whether, and to what extent, he/she can continue in the second year. This is binding.

### 6.2. Graduation with distinction

If upon completing the master's examination the student has shown evidence of exceptional capability, 'cum laude' (with distinction) will be recorded on the degree certificate.

A student is considered to have exceptional capability if all of the following conditions are met:

- the average mark awarded for all courses of the master's examination (except the Final Project (read: master's thesis) is at least an 8.0;
- no course was graded less than a 7.0;
- each mark needs to be obtained at each course's first attempt [Exception: after approval from the Examination Board a student may re-sit for an exam or re-submit an assignment once when having obtained a 6.0 or 6,5 for that course at the first attempt];
- the mark for the Final Project (read: master's thesis) is at least a 9.0;
- the mark for the internship (if applicable) is at least an 8.0;
- in the determination of the average grade, the courses that were not graded with a numerical mark (and the non-numerical grade is at least a Pass) or courses for which an exemption was granted are not considered;
- the number of courses for which no numerical mark has been given or for which exemption has been granted, spans max. 30 EC [In case the number of these non-numerically marked courses and/or exemptions exceeds 30 EC, then the Examination Board has to evaluate whether graduation with distinction is possible];
- The study duration is maximally the nominal duration plus 25%.

In special cases and despite not fulfilling these conditions, a member of the student's Graduation Committee or the student is entitled to submit a request for 'cum laude' to the Examination Board.