Programme-specific appendix to the Education and Examination Regulations 2020-2021

for the Master of Science Programme

Philosophy of Science, Technology and Society (PSTS)

14 September 2020

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1. Structure and content of the programme

This section lists the composition (structure and content) of the regular PSTS programme, as well as the composition of the 4TU track and the double degree programmes with Business Administration (BA), Public Administration (PA), and Communication Studies (COM).

1a. Composition of the regular PSTS programme

The table below show the courses that make up the regular PSTS programme in EC (1 EC = 28 hours of study load) per unit. The generic structure of the (fulltime) 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) 5EC	Society, politics and technology (191612560) 5 EC	Ethics and technology 2 (191612580) 5 EC
PSTS Skills portfolio (202000102) 0 EC			

YEAR 2			
Semester 1		**Semester 2**	
Q1	**Q2**	**Q3**	**Q4**
Advice: choose 3 out of 4 electives:	*Advice: choose 2 out of 3 electives:*		
Technologies in use (201800145) 5 EC	Anticipation and evaluation of emerging technologies (201800149) 5 EC	Master's Thesis 30 EC (201300088) **OR** Internship 10 EC (201300090) Master's Thesis 20 EC (201300089)	
Transformation of knowledge in a digital age (201800146) 5 EC	Minds, bodies and technologies (201800150) 5 EC		
Perspectives on governance of sociotechnical change (201800147) 5 EC	Rethinking science-technology relations (201800151) 5 EC		
Good technology for users and society (201800148) 5 EC			
MasterLab (202000254) 5 EC			
PSTS skills portfolio (202000102) 0 EC			

Table 1: Curriculum PSTS 2020-2021

Year #1
All students take the twelve (12) obligatory courses (in total 60 EC's) 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, a student needs to provide evidence that s/he mastered all *core* skills listed in the rubric on (at least) a sufficient level. Mastery of personal skills objectives not listed in the PSTS Core skills rubric will be assessed by the mentor in a formative way only.

First semester of year #2
Students take five (5) out of the seven (7) elective PSTS courses (in total 25 EC's). If the Examination Board approves, students can exchange a PSTS elective for a course from another master's programme. In parallel, students take the MasterLab (5 EC's) course which spans both the 1st and 2nd semester. Moreover, students continue their PSTS Skills Portfolio.

Second semester of year #2
Students work on their master's thesis of either 20 EC's plus a 10 EC's internship, or 30 EC's.
In parallel to their thesis work (and – if applicable – their internship) students continue with and complete MasterLab, as well as the PSTS Skills Portfolio.

1b. Composition of the 4TU 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's 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 2nd 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 need to take that assignment.

In addition, students in the track take 2 of the following courses offered by the 4TU.Ethics PhD programme:

- Philosophy of risk (TU/e) (Quartile 1)
- Philosophy of responsible innovation (TUD and WUR) (Quartile 2)
- Ethical theory and moral practice (TUe) (Quartile 2)
- Continental philosophy and technoscience (WUR) (Quartile 2)

Upon approval by the director of the 4TU.Ethics PhD programme and the PSTS Examination Board, 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/).

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 4TU Ethics & Technology track programme director. The Ethics and Technology track has the following admission requirements:
- 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 ≥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 ≥7.5 for 'Ethics and Technology 1' and 'Society, Politics and Technology' plus an average grade of ≥7.5 for all completed PSTS courses, or an average grade of ≥8.0 for 'Ethics and Technology 1' and 'Society, Politics and Technology'.'

Once being admitted to the 4TU 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 3 above mentioned courses have been completed, their average score should be at least a 7.5.

1c. Composition of the double degree programmes

Curriculum double degree programme PSTS-Business Administration (BA) 2020-2021

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)			

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

Curriculum double degree programme PSTS-Public Administration 2020-2021

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, PA core, 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, EC)	Ethics & Technology 2(191612580, 5 EC)
PSTS Skills Portfolio (202000102)			

YEAR 2			
Semester 1		**Semester 2**	
Q1	**Q2**	**Q3**	**Q4**
Social Problems PA core (194106090, 5 EC)	Anticipation and Evaluation of Emerging Technologies (201800149, PSTS, 5 EC)	Deliberative Governance of Knowledge & Innovation (201100076, PA S&T profile, 5 EC)	
Perspectives on Socio-technical Change (201800147, PSTS, 5 EC) **OR** Policy Analysis in Public & Technological Domains (201100077, PA S&T profile, 5 EC)	MasterLab (202000254 5 EC) **OR** PA Academic Research (201500145, 5 EC)	Public Governance and Policy Networks (194111240, PA Core, v 5 EC)	
Public Management: Research & Applications (201400089, PA core, 5 EC)	Final Thesis Project (201900179, 25 EC)		
PSTS Skills Portfolio (202000102)			

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

Curriculum double degree programme PSTS-Communication Studies 2020-2021

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 (5 EC, 201200064, *classes in Q1, delayed completion in Q2*) Philosophy of Technology (5 EC, 201200063, *classes in Q1, delayed completion in Q2*)		Philosophical Anthropology & Technology (191612550, 5 EC)	Technology & Social Order (191622510, 5 EC)
Essentials in Communication Science (COM core, 201800090, 5 EC)	Philosophy of Science in Practice (201400573, 5 EC)	Societal Challenges (COM core, 201800092, 5 EC)	Ethics & Technology 2 (191612580, 5 EC)
PSTS Skills Portfolio (202000102)			

YEAR 2			
Semester 1		**Semester 2**	
Q1	**Q2**	**Q3**	**Q4**
Game Studies in Social Sciences (COM specialization, 201900083, 5 EC)	User-Centred Design of New Media (COM specialization, 201000113, 5 EC)	Work and Technology (COM specialization, 201800097, 5 EC)	
Technologies in Use (PSTS elective, 201800145, 5 EC)	Research Topics (COM core, 201800091 , 5 EC)		
Good Technology for Users and Society 2 (PSTS elective, 201800148, 5 EC)	Anticipation and Evaluation of Emerging technologies2 (PSTS elective, 201800149, 5 EC)	Final thesis project, 201900180,25 EC)	
PSTS Skills Portfolio (202000102)			
PSTS MasterLab, 202000254) (optional)*			

YEAR 3			
Semester 1		**Semester 2**	
Q1	**Q2**	**Q3**	**Q4**
Final thesis project, (continued)			

*NOTE:
PSTS-COM double degree students are advised (but not obliged) to participate in the PSTS MasterLab course in quartile 1 of the 2nd year, to already start preparing for their combined graduation project before they start with Research Topics in quartile 2.

1d.　　Study load of the programme

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 fulltime programme and also 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 4TU.Ethics track, described in paragraph 1b above, also entails 120 EC (two years of 60 EC each).

The study load of the 3 double degree programmes (the PSTS Link-trajectories) described in section 1c above, is as follows:
- PSTS Link with the UT master's degree programme Business Administration (PSTS-Link-BA): 120 EC's (two years of 60 EC each);
- PSTS Link with the UT master's degree programme Public Administration (PSTS-Link PA): 120 EC's (two years of 60 EC each);
- PSTS Link with the UT master's degree programme Communication Studies (PSTS-Link COM): 135 EC's) (two years of 60 EC plus a quartile of 15 EC).

1e.　　Honours programme

For excellent master students the University of Twente offers three (3) different extra-curricular master's honours programmes of 15 EC each. These programmes are:
- MSc Change leaders
- MSc Design honours
- MSc Research honours

More information on these programmes and the corresponding selection procedures can be found at the UT honours programmes website (http://www.utwente.nl/excellentie/en/).

2. Goals and objectives of the programme

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.

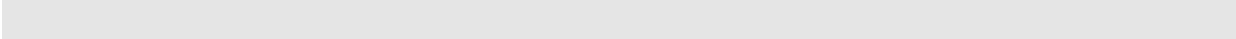The programme's Final Qualifications are the following:

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.
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.

3. Exams, tests and subtests

3a. Exams

Apart from the course-specific exams (see the 2020-2021 course list below), the PSTS programme has one (1) examination, i.e. the master's examination after 2 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.

3b. Assessment forms

The assessment formats of each of the units of study in the PSTS programme is shown in table 2.
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 Paragraph 4 of the BMS EER, in the PSTS master's programme the following applies:
If a unit of study 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 2020-2021, year #1

Semester 1			
Code	**Name (+ study load)**	**Examiner(s)**	**Mode of assessment**
201200063	Philosophy of Technology	Dr. N. Gertz	Written exam and assignment
201200064	Science and Technology Studies	Dr. P. Stegmaier	Assignments, presentation
201200059	Philosophical Theories and Methods	Dr. Y. Saghai	Midterm take-home exam, final exam, reflection paper,
201400573	Philosophy of Science in Practice	Dr. K. Karaca	Individual assignment, group reflection report, group presentation
201400574	History of Science and Technology	Dr. A. Weber	Assignments, participation
191612540	Ethics and Technology I	Dr. K. Macnish, To be decided	Assignments, take-home exam

Semester 2			
Code	**Name (+ study load)**	**Examiner(s)**	**Mode of assessment**
202000252	TechnoLab	Dr. K. Karaca	Group assignment, individual assignment
191612550	Philosophical Anthropology and Technology	Prof.dr. C. Aydin, Dr. M. Nagenborg	Take home exam, assignment
91612560	Society, Politics and Technology	Dr. P. Smith, Dr N. Gertz	Presentation, 2 written exams
202000253	PhiloLab	Dr. J.E. Zwier	Group paper, individual

		Dr. P. Stegmaier	assignments
191622510	Technology and Social Order	Dr. A. Weber, Dr. K.E. Konrad	Assignments
191612580	Ethics and Technology II	Prof.dr. P. Brey vacancy	Written exam, assignments
202000102	PSTS Skills Portfolio	Mentors (to be assigned)	Participation and written assignments

Course list PSTS 2020-2021, year #2

Semester 1

Code	Name (study load)	Examiner(s)	Mode of assessment
201800145	Technologies in use	Prof.dr. P.P.C.C. Verbeek, Dr. P. Stegmaier	Group assignment, individual assignment, participation
201800146	Transformations of knowledge in a digital age	Dr. K. Karaca, Dr. A. Weber	Assignments presentation
201800147	Perspectives on governance of socio-technical change	Dr. K.E. Konrad, Dr. P. Stegmaier	Assignments
201800148	Good technology for users and society	Prof.dr. P.A.E. Brey, Dr. P.T. Smith	Presentation, assignment
201800149	Anticipation and evaluation of emerging technologies	Dr. Y. Saghai, Dr. K.E. Konrad	Group report, assignments
201800150	Minds, bodies and technologies	Dr. M. Nagenborg, Prof.dr. C. Aydin	Assignment, presentation
201800151	Rethinking science-technology relations	Prof.dr.ir. M. Boon, Dr. M. Macleod, Dr. K. Karaca	Presentation, assignments

Semester 1-4

Code	Name (study load)	Examiner(s)	Mode of assessment
202000254	MasterLab	Dr. A. Weber, Dr. K.N.J. Macnish	Participation, assignments, thesis proposal
202000102	PSTS Skills Portfolio	Dr. M.C. Kühler (coordinator) Mentors (to be assigned)	Participation and written assignments

Semester 2

Code	Name (+ study load)	Examiner(s)	Mode of assessment
201300090	Brief Internship (10 EC)	Supervisor (as indicated on the internship contract)	Internship report
201300089	Master's Thesis (20 EC)	Graduation committee (as indicated on the final project contract)	Thesis, presentation and oral exam
201300088	Master's Thesis (30 EC)	Graduation committee (as indicated on the final project contract)	Thesis, presentation and oral exam

Table 2: List of units and study, examiners, and modes of assessment

3c. Prerequisites and required sequence of exams

Year #1, semester 1

Code	Course name	Obligatory prior knowledge
201200063	Philosophy of Technology	Relevant completed undergraduate programme or

		registered student in a relevant graduate programme, to be decided by the programme's Admission Committee
201200064	Science and Technology Studies	Relevant completed undergraduate programme or registered student in a relevant graduate programme, to be decided by the programme's Admission Committee
201200059	Philosophical Theories and Methods	Relevant completed undergraduate programme or registered student in a relevant graduate programme, to be decided by the programme's Admission Committee
201400573	Philosophy of science in Practice	Relevant completed undergraduate programme or registered student in a relevant graduate programme, to be decided by the programme's Admission Committee
201400574	History of Science and Technology	Relevant completed undergraduate programme or registered student in a relevant graduate programme, to be decided by the programme's Admission Committee
191612540	Ethics and Technology I	Relevant completed undergraduate programme or registered student in a relevant graduate programme, to be decided by the programme's Admission Committee
202000102	PSTS Skills Portfolio	Admitted to the PSTS programme as a student

Year #1, semester 2

Code	Course name	Obligatory prior knowledge
191612550	Philosophical Anthropology and Technology	Relevant completed undergraduate programme or registered student in a relevant graduate programme, to be decided by the programme's Admission Committee
191612560	Society, Politics and Technology	Relevant completed undergraduate programme or registered student in a

		relevant graduate programme, to be decided by the programme's Admission Committee
202000252	Technolab	201200063; 201200059, 201200064
191612580	Ethics and Technology II	191612540
191622510	Technology and Social Order	201200064; 201400574
202000253	PhiloLab	202000252; 201200059, 201200064; 201200063
202000102	PSTS Skills Portfolio	Admitted to the PSTS programme as a student

Year #2, semester 1

Code	Course name	Obligatory prior knowledge
	M-2 courses in general	Min. **40** EC year #1 courses
201800145	Technologies in Use	
201800146	Transformations of Knowledge in a Digital Age	202000252, 201400573, 201400574, 201200064
201800147	Perspectives on Governance on Socio-technical Change	201200064, 191622510
201800148	Good Technology for Users and Society	191612540, 191612580, 191612560
201800149	Anticipation and Evaluation of Emerging Technologies	191612540, 191612580, 202000252
201800150	Minds, Bodies and Technologies	191612550
201800151	Rethinking Science-technology Relations	202000252, 201400573, 201400574, 201200064
202000254	MasterLab	Min. **50** EC year #1 courses, including at least: • 202000252 TechnoLab • 202000253 PhiloLab

Year #2, semester 2

Code	Course name	Obligatory prior knowledge
201300088	Master Thesis (30 EC)	Min. **75** EC year #1 + #2 courses, including at least: • 202000252 TechnoLab • 202000253 PhiloLab • 202000254 MasterLab - 1st semester component
201300090 & 20130089	Internship (10 EC) and Master thesis (20 EC)	Min. **75** EC year #1 + #2 courses, including at least: • 202000252 TechnoLab • 202000253 PhiloLab • 202000254 MasterLab - 1st semester component

4. General information

4a. Admission to the programme

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

Admission requirements	As evidenced by
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.	Bachelor or equivalent diploma
Sufficient affinity with (reflection on) science and technology	Motivational letter
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.)	An IELTS minimum score of 6.5 on the IELTS or an internet-based TOEFL (iBT) minimum score of 90.
Sufficient entry-level academic skills, including skills in reading, writing, textual analysis and critical reflection	Writing assignment, showing • Sufficient competence in academic writing • Sufficient understanding of the theoretical frameworks presented in the papers provided • Sufficient competence to formulate properly a line of thought • Sufficient understanding of a technological development of one's own choice • Basic competence to reflect on an author's argument(s) • Basic competence to come to a conclusion with respect to the points above

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; they are assisted by a clerk from the Faculty's Educational Service Centre.

4b. Language

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

4c.   International agreements

Not applicable

4d.   Elective programme

The elective options in the regular PSTS programme imply that all students can freely select (at least) 5 courses from the PSTS elective courses offered in the 1st semester of the 2nd year. In case a student opts for other courses than the PSTS electives presented in Table 1 above, he/she has to submit a written request to the programme's Examination Board.

As an alternative to the regular PSTS programme, students may apply for the 4TU.Ethics track: Ethics and Technology, as stipulated in paragraph 1b of this programme-specific appendix.

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 2020-2021 the PSTS programme offers 3 **Link trajectories**:
- PSTS Link with the UT master's degree programme Business Administration (PSTS-Link-BA, 120 EC's)
- PSTS Link with the UT master's degree programme Public Administration (PSTS-Link PA, 120 EC's)
- PSTS Link with the UT master's degree programme Communication Studies (PSTS-Link COM. 135 EC's)

Students who have started with the standard PSTS curriculum can switch to one of the PSTS Link trajectories, provided they are admitted to the partner programme.

4e.   Composition Programme Committee

The PSTS Programme Committee has the task to advise on enhancing and guaranteeing the quality of the PSTS programme.The members of the PSTS Programme Committee are appointed by the Dean. The members are recruited from students and teaching staff of the PSTS programme on an equal basis (50% students and 50% staff). The most up-to-date composition of the committee and its formal role and tasks can be found on the webpage of the programme committee (https://www.utwente.nl/en/psts/programme-committee/).

4f.   Composition Graduation Committee

In derogation from Paragraph 5.02 of the Faculty's Rules and Regulations of the Examination Board, in the PSTS programme both the 1st supervisor and the 2nd reader (examiner) of the final project have at least a doctorate degree (PhD).

4g.   Examination Board

The Examination Board is the body that determines in an objective and expert way whether a student meets the conditions under the Education and the Examination Regulations (EER) concerning the knowledge, comprehension and skills required in order to obtain the Master of Science (MSc) degree. Members of the Examination Board are appointed by the Dean of the Faculty.

The Board's tasks are described in the generic (i.e. non programme-specific) part of the EER. More information, including the most up-to-date composition of the Board can be found on the webpage of the Examination Board (https://www.utwente.nl/en/bms/examboard/).

5. Transitional arrangements

Curricular changes 2020-2021 compared to the 2019-2020 curriculum.

From the academic year 2020-2021 the following 2019-2020 PSTS courses will not be offered anymore:

- 201300225   MasterLab-1
- 201500443   MasterLab-2
- 201400575   TechnoLab
- 201400576   PhiloLab

Per 2020-2021 these courses are replaced as follows:
- 201300225 MasterLab-1 (5 EC) and 201500443 Masterlab-2 (0 EC) merged to: 202000254 MasterLab (5 EC).
- 201400575 TechnoLab (7 EC)   ->   202000252 TechnoLab (5 EC)
- 201400576 PhiloLab (3 EC)   ->   202000253 PhiloLab (5 EC)

In line with the Student Charter the following applies:
Students who submitted at least once all or some parts of the course examination (or with regard to MasterLab-2: actively participated in part of the course) during the academic year 2019-2020, but who failed to complete the course successfully (implying that the course is graded as *fail* or *incomplete* (in Dutch: NVD) in the university's administrative system Osiris) have two options:
1. They are entitled to retake (parts of) the examination of this course at max twice during the academic year 2020-2021. No classes will be scheduled in preparation. The dates and/or deadlines for the (if applicable) two examination opportunities will be communicated to the students at the beginning of the academic year 2020-2021. For Masterlab-2, teaching staff will arrange for the individual student how to compensate for insufficient participation.
2. They may choose to enrol in the respective new 2020-2021 courses, MasterLab (202000254), TechnoLab (202000252), PhiloLab (202000253). After the academic year 2020-2021, this will be the only option available.

Students are strongly recommended to consult the PSTS programme's study adviser before deciding which option to choose.

[Note: all previous transitional arrangements as mentioned in the 2019-2020 version of these appendix to the EER have been dealt with.]

6. Study advice at the end of year #1

Before starting year #2 courses, students need to have completed at least 40 EC (out of 60 EC) of the year #1 courses.

At the end of each academic year the performance of all first year students is discussed in a meeting with the first year teaching staff. In case this discussions results in specific advice for particular students, this will be communicated to the student by the PSTS study adviser. This advice is non-binding.

In addition (and on course level) special course entry requirements may apply. For all details, please read section 3.1 of this programme-specific appendix to these EER.

7.   Additional subjects

7a.   Graduation with distinction (Cum Laude)

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 the units of study of the Master's examination (except the Final Project (read: master's thesis) is at least an 8.00;
- no unit of study was graded less than a 7.00,
- 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 6.00 for that course at the first attempt];
- the mark for the Final Project (read: master's thesis) is at least a 9.00;
- the mark for the internship (if applicable) is at least an 8.00;
- in the determination of the average grade, the units of study that were not graded with a numerical mark or units of study for which an exemption was granted are not considered;
- the number of units of study 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's, 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 Examination Board or a member of the student's Graduation Committee is entitled to propose a "Cum Laude" award to the Examination Board.
The rules applied by the Examination Board can be found in the Rules & Regulations of the Examination Board.

7b.   Validity of results of a unit of study
In derogation from the generic rule (Paragraph 4.8.1 of the UT-BMS-EER), stating that the validity of a result of a unit of study has no limitation, the validity of a result of a unit of study in the PSTS programme is max. 5 years.
If a student would like to extend the validity of a result of one or more units of study 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 unit(s) of study.

7c.   Validity of sub-grades
In derogation from the generic rule (Paragraph 4.8.2 of the UT-BMS EER,) stating that in case a unit of study 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.