

**Programme-specific appendix to the Education and Examination Regulations  
2018-2019**

for the Master of Science Programme

**Philosophy of Science, Technology and Society (PSTS)**

20 August, 2018

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## 1. Structure and content of the programme

### 1a. Composition of the programme

The tables below show the courses which make up the PSTS programme in EC (1 EC = 28 hours of study load) per unit.

The generic structure (of the September – fulltime – enrolment) of the programme is as follows:

<b>Schedule 1st Year</b>			
<b>Semester 1</b>		<b>Semester 2</b>	
<b>Block 1A</b>	<b>Block 1B</b>	<b>Block 2A</b>	<b>Block 2B</b>
Philosophy of technology (201200063) 5 EC	Philosophy of science in practice (201400573) 5 EC	Technolab (201400575) 7 EC (5 EC) (2 EC)	Philolab (201400576) 3 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

<b>Schedule 2nd Year</b>			
<b>Semester 1</b>		<b>Semester 2</b>	
<b>Block 1A</b>	<b>Block 1B</b>	<b>Block 2A</b>	<b>Block 2B</b>
Technologies in use (201800145) 5 EC	Anticipation and evaluation of emerging technologies (201800149) 5 EC	<p><b>Academic profile</b>            Master's Thesis 30 EC (201300088)            MasterLab 2 (EC's: part of the Master's thesis)</p> <p><b>Professional profile</b>            Internship 10 EC (201300090)            Master's Thesis 20 EC (201300089)            MasterLab 2 (EC's: part of the Master's thesis)</p>	
Transformations 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 1 (201300085) 5 EC			

Table 1: Curriculum PSTS 2018-2019

## **Year #1**

All students take the twelve (12) obligatory courses (60 EC's) of the first year's programme.

### **First semester of year #2**

Students take five (5) out of the seven elective PSTS courses mentioned in table 1 (25 EC's). If the Examination Board approves, students can exchange a PSTS elective for a course from another master's programme.

Students take MasterLab 1 (5 EC's) in parallel to the elective courses. In MasterLab 1 students develop additional research skills; they choose a thesis/final project supervisor and write (in close collaboration with that thesis/final project supervisor) a research proposal for their thesis.

### **Second semester of year #2**

Students work on their master's thesis of 30 EC's. If students wish to explore possibilities for a professional career, they can opt for a brief (10 EC's) internship, in which case they write a shorter final thesis (20 EC's). All students take MasterLab 2 in parallel to the thesis work (and internship). In MasterLab 2 students report on their progress, receive additional feedback and support from coordinators and peers.

### **Ethics and Technology track**

Students can opt for a special Ethics and Technology track, 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 2<sup>nd</sup> year courses from the PSTS programme:

- Good technology for users and & society
- Anticipation and evaluation of emerging technologies
- Minds, bodies and technologies
- MasterLab 1 and 2

If these courses provide a specific "Ethics and Technology" track assignment, students need to take that assignment.

In addition, students in the track select 2 from the following 3 courses offered by the 4TU.Ethics PhD programme:

- Philosophy of Risk (TU/e)
- Philosophy of Responsible Innovation (TUD and WUR)
- Moral Psychology and Technology (TUD)

Upon approval by the director of the 4TU.Ethics PhD programme, Philip Brey, 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 have completed at least 55 EC from the first year of PSTS, including the courses 'Ethics and Technology I and II' and 'Society, Politics and Technology'.
- Students have an average grade of at least 7.8 for their first-year PSTS courses.
- Students have an average grade of at least 8 for the courses "Ethics and Technology I and II" and "Society, Politics and Technology."

Once being admitted to the 4TU Ethics and Technology track, students' academic achievement has to continue to meet specific standards. To remain within the track, students have to complete the course "Good technology for users and society" by the start of quartile 1B and score at least an 8. In case a student does not meet these standards, s/he will have to leave the track and returns to the standard PSTS programme.

### **1b. Study load of the programme**

The entire study programme is 120 EC. Both study years are 60 EC each. All course-based units of study comprise of 5 EC, except TechnoLab, which is a 7 EC course, and PhiloLab, which is a 3 EC course.

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.

### **1c. Honours programme**

For excellent master students the University of Twente offers four (4) different extra-curricular master's honours programmes of 15 EC each. These programmes are:

- MSc Change leaders
- MSc Design honours
- MSc Research honours
- MSc High Tech Systems and Materials 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 (in Dutch: "Wijsbegeerte van een bepaald wetenschapsgebied"), 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.                                                                                          |
| 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.                                                                                                                                                                                                                          |

### 3. Examination and exams

#### 3a. Examination

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), have been successfully completed.

#### 3b. Exam formats

The exam formats of each of the units of study (courses) in the PSTS programme is shown in table 2. Written tests are individual tests, unless specified otherwise. The weight attributed to each of the exam components is stipulated in the course's electronic learning environment, and made public before the start of the course.

Note:

In addition to Article 4.1 of the BMS EER, in the PSTS master's programme the following applies:

If a unit of study has been completed successfully (final grade 5.5 or more) then this grade is final. If a student (due to exceptional circumstances) would like to improve the grade, he/she has to write a motivated request to the Examination Board.

#### Course list PSTS 2018-2019, year #1

<b>Semester 1</b>			
<b>Code</b>	<b>Name (+ study load)</b>	<b>Examiner(s)</b>	<b>Mode of assessment</b>
201200063	Philosophy of Technology	Dr. N. Gertz, Prof.dr. P.P.C.C. Verbeek,	Written exam and paper
201200064	Science and Technology Studies	Dr. A. Pelizza	Assignments, presentation
201200059	Philosophical Theories and Methods	Dr. Y. Saghai	Midterm exam, final exam, individual paper, group assignments
201400573	Philosophy of Science in Practice	Dr. K. Karaca	Paper, presentation
201400574	History of Science and Technology	Prof.dr. L.L. Roberts	Essays, participation
191612540	Ethics and Technology I	Dr. P.E. Milam	Assignments

<b>Semester 2</b>			
<b>Code</b>	<b>Name (+ study load)</b>	<b>Examiner(s)</b>	<b>Mode of assessment</b>
201400575	TechnoLab	Dr. K. Karaca	Group report, individual project, individual reflection paper
191612550	Philosophical Anthropology and Technology	Prof.dr. C. Aydin, Dr. M. Nagenborg	Take home exam and paper
91612560	Society, Politics and Technology	Dr. P. Smith Dr N. Gertz	Presentation, Exams
201400576	PhiloLab	Dr. Y. Saghai Dr. P. Stegmaier	Group paper, individual paper
191622510	Technology and Social Order	Prof.dr. L.L. Roberts	Participation, papers

191612580	Ethics and Technology II	Prof.dr. P. Brey To be decided	Paper, exam
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### Course list PSTS 2018-2019, year #2

<b>Semester 1</b>			
<b>Code</b>	<b>Name (study load)</b>	<b>Examiner(s)</b>	<b>Mode of assessment</b>
201800145	Technologies in use	Prof.dr. P.P.C.C. Verbeek, Prof. dr. L.L. Roberts	Individual paper, participation, group assignment
201800146	Transformations of knowledge in a digital age	Dr. K. Karaca, Dr. A. Weber	Assignments presentation, paper
201800147	Perspectives on governance of socio-technical change	Dr. K.E. Konrad, Dr. P. Stegmaier	Assignments, paper
201800148	Good technology for users and society	Prof.dr. P.A.E. Brey, Dr. K.N.J. Macnish	Presentation, paper
201800149	Anticipation and evaluation of emerging technologies	Dr. M. Boenink, Dr. K.E. Konrad	Group report, assignments
201800150	Minds, bodies and technologies	Dr. M. Nagenborg, Prof.dr. C. Aydin	Assignment, presentation, paper
201800151	Rethinking science-technology relations	Prof.dr.ir. M. Boon Dr. M. Macleod	Presentation, report, paper
<b>Semester 1 &amp; 2</b>			
201300085	MasterLab1	Prof. dr. L.L. Roberts Dr. K.N.J. Macnish	Participation, thesis proposal
<b>Semester 2</b>			
<b>Code</b>	<b>Name (+ study load)</b>	<b>Examiner(s)</b>	<b>Mode of assessment</b>
	MasterLab2	Prof. dr. L.L. Roberts Dr. K.N.J. Macnish	Participation
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 examination
201300088	Master's Thesis (30 EC)	Graduation committee (as indicated on the final project contract)	Thesis, presentation and oral examination

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

### 3c. Colloquium participation

In addition to the units of study mentioned above, PSTS students are obliged to participate in a minimum number of 8 colloquia offered by the departments that are involved in PSTS (and that are approved by the programme's director). There is no formal assessment involved. Students sign the attendance list circulated during the colloquium. The chair of the colloquium is responsible for signing and submitting the attendance list to the Educational Affairs Office. If a student plans to attend a non-departmental colloquium or a research meeting for which a PSTS attendance list is not standardly provided, but would like to include this as colloquium participation, s/he can ask for approval of the programme director. If approval is granted, the student is responsible for submitting proof of his/her attendance at such a colloquium to the Educational Affairs Office.



### 3d. Prerequisites and required sequence of exams

Year #1, semester 1

<b>Code</b>	<b>Course name</b>	<b>Obligatory prior knowledge</b>
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

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
191612580	Ethics and Technology II	191612540
191622510	Technology and Social Order	201200064; 201400574 (for exceptions, students need to contact the instructor)
201400576	PhiloLab	201400575; 201200059, 201200064; 201200063
201400575	Technolab	201200063; 201200059, 201200064

Year #2, semester 1

Code	Course name	Obligatory prior knowledge
	M-2 courses in general	<u>Min. 40</u> EC year #1 courses
201800145	Technologies in use	
201800146	Transformations of knowledge in a digital age	201400575, 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, 201400575
201800150	Minds, bodies and technologies	191612550
201800151	Rethinking science-technology relations	201400575, 201400573, 201400574, 201200064
201300085	MasterLab-1	<u>Min. 50</u> EC year #1 courses, including at least: <ul style="list-style-type: none"> <li>• 201400575 TechnoLab</li> <li>• 201400576 PhiloLab</li> </ul>

Year #2, semester 2

<b>Code</b>	<b>Course name</b>	<b>Obligatory prior knowledge</b>
201500443	MasterLab-2	<u>Min. 80 EC year #1 + #2</u> courses, including at least: <ul style="list-style-type: none"> <li>• 201400575 TechnoLab</li> <li>• 201400576 PhiloLab</li> <li>• 201300085 MasterLab 1</li> </ul>
201300088	Master Thesis (30 EC)	<u>Min. 80 EC year #1 + #2</u> courses, including at least: <ul style="list-style-type: none"> <li>• 201400575 TechnoLab</li> <li>• 201400576 PhiloLab</li> <li>• 201300085 MasterLab 1</li> </ul>
201300090 & 20130089	Internship (10 EC) and Master thesis (20 EC)	<u>Min. 80 EC year #1 + #2</u> courses, including at least: <ul style="list-style-type: none"> <li>• 201400575 TechnoLab</li> <li>• 201400576 PhiloLab</li> <li>• 201300085 MasterLab 1</li> </ul>

## 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 <ul style="list-style-type: none"> <li>• Sufficient competence in academic writing</li> <li>• Sufficient understanding of the theoretical frameworks presented in the papers provided</li> <li>• Sufficient competence to formulate properly a line of thought</li> <li>• Sufficient understanding of a technological development of one's own choice</li> <li>• Basic competence to reflect on an author's argument(s)</li> <li>• Basic competence to come to a conclusion with respect to the points above</li> </ul>

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

PSTS students may apply for the 4TU.Ethics track: Ethics and Technology, as stipulated in paragraph 1a of this programme-specific appendix.

In addition, students may opt for the so-called PSTS Link trajectory. This PSTS-Link trajectory leads to a double MSc degree.

In 2018-2019 the PSTS programme offers 2 Link trajectories:

- PSTS Link with the UT master's degree programme Business Administration (PSTS-Link-BA, 2 years)
- PSTS Link with the UT's master's degree programme Public Administration (PSTS-Link PA, 2 years)

Students who have started with the standard PSTS curriculum can decide to switch to PSTS Link, provided they are accepted as students by the partner programme as well. Moreover, this choice ultimately has to be made at the end of quartile 2 of year #1 in the regular PSTS programme. Switching at a later is possible, but in that case the combined curriculum will take more than 2 years.

Full information on the curricula of these double degree programmes can be obtained from Appendix A.

#### **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](#).

#### **4f. Composition Graduation Committee**

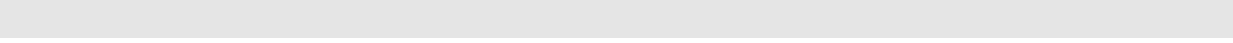
In derogation from article 5.02 of the Faculty's Rules and Regulations of the Examination Board, in the PSTS programme both the 1<sup>st</sup> supervisor and the 2<sup>nd</sup> reader (examiner) of the final project have at least a doctorate degree (PhD).

#### **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.

Reference: BMS-OSC.6421.JNe  
Master EER Programme-specific appendix PSTS 2018-2019

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](#).



## 5. Transitional arrangements

### A. Curricular changes 2018-2019 compared to the 2017-2018 curriculum.

From the academic year 2018-2019 the following 2017-2018 PSTS courses will not be offered anymore:

191612660	Philosophical Anthropology and Human-technology Relations
191622630	Shaping Technology and Use
201300079	Philosophy of Mind, Body and Technology
191612670	Technology and the Quality of Life
201300080	Technology, Globalization and the Environment
201300081	Assessment of Emerging Technologies
201300082	Philosophy of Science and Technology Relations
201300083	Dynamics and Governance of Socio-technical Change
201300084	Spatial and Temporal Dynamics of Science, Technology and Society

In line with the Student Charter the following applies to these courses:

Students who submitted at least once all or some parts of the course examination during the academic year 2017-2018, but who failed to complete the course successfully (implying that the course is graded as *insufficient* 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 2018-2019. No classes will be scheduled in preparation for these examinations. The dates and/or deadlines for the two examination opportunities will be communicated to the students at the beginning of the academic year 2018-2019. The opportunity to retake (parts of) the examination of 2017-18 courses will expire after the academic year 2018-2019.
2. They may choose to enrol the new 2018-2019 course(s) that is/are as equivalent as possible, according the substitution scheme below and In consultation with the study advisor. After the academic year 2018-2019, this will be the only option available.

Students who only took classes for one or more of the above mentioned 2017-2018 PSTS courses, but who did not submit any part of the course's examination, in consultation with the study advisor will enrol in the course(s) from the PSTS 2018-2019 course list that is/are as equivalent as possible (see the substitution scheme below),

Note:

Since the 2018-2019 curriculum does not contain profiles anymore, students exchanging 2017-18 courses for 2018-19 courses need to be aware that this may affect what is mentioned on their diploma supplement. Students who would like to have the name of the profile in which they enrolled in 2017-2018 indicated on their diploma supplement, should have completed successfully at least two profile-specific courses from the 2017-2018 curriculum. In case they fail to meet this "minimal 2 profile courses" requirement the profile will not be indicated on the diploma supplement.

Substitution scheme:

<b>Old course</b>		<b>Substituted by new course:</b>	
191612660	Philosophical Anthropology and Human-technology Relations	201800145	Technologies in use
		or	
		201800150	Minds, bodies and technologies
191622630	Shaping Technology and Use	201800145	Technologies in use
201300079	Philosophy of Mind, Body and Technology	201800150	Minds, bodies and technologies
191612670	Technology and the Quality of Life	201800148	Good technology for users and society
201300080	Technology, Globalization and the Environment	201800148	Good technology for users and society
201300081	Assessment of Emerging Technologies	201800149	Anticipation and evaluation of emerging technologies
201300082	Philosophy of Science and Technology Relations	201800151	Rethinking science-technology relations
201300083	Dynamics and Governance of Socio-technical Change	201800147	Perspectives on governance of socio-technical change
201300084	Spatial and Temporal Dynamics of Science, Technology and Society	201800146	Transformations of knowledge in a digital age



## **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.

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.

## **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 8.0;
- no unit of study was graded less than a 7,
- 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 for that course at the first attempt];
- the mark for the Final Project (read: master's thesis) is at least a 9;
- the mark for the internship (if applicable) is at least an 8;
- 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 (Article 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 (Article 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.

## Appendix A: PSTS-Link

PSTS-Link trajectories in general are meant to facilitate students who are interested in reflection on science/technology and society in relation to a specific technological or societal domain (which will often also be their original BSc background), by offering double degree programmes. Students completing a double degree at graduation have to fulfil the final qualifications of PSTS, as well as of the second master's degree programme.

In 2018-19, PSTS offers double degree programmes with two UT partners: PSTS-Business Administration and PSTS-Public Administration. In both cases, the curriculum enables students to pursue two MSc diplomas in two years.

### **Admission to a double degree programme**

To pursue a double degree, students need to be enrolled in, and thus to be admitted by both programmes. This means they have to satisfy the admission requirements of PSTS as well as the partner MSc programme.

### **Profile PSTS-BA**

In case of combining PSTS with Business Administration (BA), students use insights from the conceptual, empirical and/or normative analysis of the interaction between science, technology and society to reflect on the role and activities of business and management in innovation processes, as well as help improve the strategies used in those processes. Moreover, insights from Business Administration could enhance the practical orientation of philosophical and STS work focusing on innovation processes and their management. Overall, the PSTS-BA double degree graduate would be able to offer reflective, critical as well as practice-based contributions to the domain of management and change processes in high tech human touch (HTHT) contexts.

### **Profile PSTS-Public Administration**

In the case of combining PSTS with Public Administration (PA), students use insights from the conceptual, empirical and/or normative analysis of the interaction between science, technology and society to think through and design ways to manage and govern societal challenges related to science and technology. In addition, insights from the theories, models, empirical analyses and methods in the field of Public Administration could be used to translate philosophical and STS work into the practices of policy making, governance and management. Overall, the PSTS-PA graduate would be able to offer reflective, critical as well as practice-based contributions to the domain of policy-making, management and governance of the interactions between science, technology and societal challenges.

**Curriculum double degree programme PSTS-Business Administration 2018-19**

YEAR 1				YEAR 2			
Semester 1		Semester 2		Semester 1		Semester 2	
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Philosophical Theories & Methods (201200059, 5 EC)	Ethics & Technology 1 (191612540, 5 EC)	Technolab (201400575, 7 EC)	Philolab (201400576, 3EC)	Entrepreneurial leadership and responsible design (201600002, BA core, 5 EC)	Anticipation and evaluation of emerging technologies (201800149, PSTS, 5 EC) – or other PSTS elective	Masterclass BA (201400018, BA core for double degrees, 5 EC)	
Science & Technology Studies (201200064, 5 EC)	History of Science & Technology (201400574, 5 EC)	Philosophical Anthropology & Technology (191612550, 5 EC) OR Society, Politics & Technology (191612560, 5 EC)	Technology & Social Order (191622510, 5 EC)	International Entrepreneurship – a Strategic Technology Perspective (201600011, BA profile, 5 EC)	PSTS MasterLab 1 (201300085, 5 EC)		
Philosophy of Technology (201200063, 5 EC)	Philosophy of Science in Practice (201400573, 5 EC)	Smart Industry (201500147, BA profile, 5 EC)	Ethics & Technology 2 (191612580, 5 EC)	Management and Governance of Innovation and Creativity (201600012, BA profile & PSTS elective, 5 EC)	Business valuation and corporate governance (201600010, BA core, 5 EC)	Combined final thesis project (201300088, 25 EC)	

**Curriculum PSTS-Public Administration 2018-19**

YEAR 1				YEAR 2			
Semester 1		Semester 2		Semester 1		Semester 2	
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Philosophical Theories & Methods (201200059, 5 EC)	Ethics & Technology 1 (191612540, 5 EC)	Technolab (201400575, 7 EC)	Philolab (201400576, 3EC)	Social problems PA core (194106090, 5 EC)	Anticipation and evaluation of emerging technologies (201800149, PSTS, 5 EC) – or other PSTS elective	Deliberative governance of Knowledge & Innovation (201100076, PA S&T profile, 5 EC)	
Science & Technology Studies (201200064, 5 EC)	History of Science & Technology (201400574, 5 EC)	Public governance and policy networks (194111240, PA Core, 5 EC)	Technology & Social Order (191622510, 5 EC)	Perspectives on socio-technical change OR other PSTS 2 <sup>nd</sup> year elective (201800147, PSTS, 5 EC) OR Policy Analysis in Public & Technological Domains (201100077, PA S&T profile, 5 EC)	PSTS MasterLab 1 (201300085, 5 EC) OR PA Academic research (201500145, 5 EC)	Public governance and legitimacy (194101070, PA core, 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)	Public Management: research & applications (201400089, PA core, 5 EC)	Combined final thesis project (201300088, 25 EC)		