ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Programme Regulations 2019

of the Master's degree programme in

Science, Technology and Policy

Department of Humanities, Social and Political Sciences

29 January 2019

This English translation is for information purposes only.
The original German version is the legally binding version.

Version: **29.01.2019 – 0**

Programme Regulations 2019 of the
Master's degree programme in Science, Technology and Policy
Department of Humanities, Social and Political Sciences

29 January 2019   (Version: 29 January 2019)

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The ETH Zurich Executive Board,
Pursuant to Art. 4, Para. 1, Lit. a of the ETH Zurich Organisational Ordinance (*Organisationsverordnung ETH Zürich*) of 16 December 2003 (RSETHZ 201.021),
decrees:

Chapter 1:   General regulations

Part 1:   General

Art. 1   Subject and scope, Appendix

[1] These Programme Regulations set out the requirements according to which the Master's degree in Science, Technology and Policy may be acquired at the department of Humanities, Social and Political Sciences (D-GESS).

[2] The Appendix is a part of these Programme Regulations.

[3] Any changes to these Programme Regulations or their Appendix are undertaken only on the request of or in consultation with the Department Conference of D-GESS (DK GESS).

Art. 2   Academic title

[1] Graduates of the ETH Zurich Master's degree programme in Science, Technology and Policy (subsequently 'degree programme') are awarded the academic title
        Master of Science ETH in Science, Technology and Policy
        (abbreviation: MSc ETH STP)

[2] This title may also be used in the abbreviated form "MSc ETH".

Art. 3   Specialised degree programme, ISTP, D-GESS

[1] This degree programme is a specialised Master's degree programme in the sense of Art. 3, Para. 3 of the Bologna Guidelines of the Higher Education Council of the Swiss Conference of Higher Education Institutions, 28 May 2015[1].

[2] This degree programme is offered by the Institute of Science, Technology and Policy (ISTP) and belongs formally to D-GESS.

Art. 4   Teaching Commission, Director of Studies and his/her deputy, admissions committee

Regarding these topics the ISTP Organisational Regulations of 30 September 2014[2] state:

 a. *Teaching Commission*: The composition and tasks of the Teaching Commission are set out in Art. 8; rules governing the selection of its members are found in Art. 7, Para. 3 (h).

 b. *Director of Studies and his/her deputy*:
    1. Rules governing the selection of the Director of Studies and his/her deputy are set out in Art. 7, Para. 3 (g), in connection with Art. 6, Para. 1bis.
    2. The tasks of the Director of Studies are governed by Art. 5, Para. 2 (a)^{bis}, provided that these tasks are not set out in these Programme Regulations or in the ETH Zurich Organisational Ordinance.

 c. *Admissions committee*: The composition of the admissions committee is set out in Art. 9, and the rules governing the selection of its members are found in Art. 7, Para. 3 (h).

Art. 5   Legal basis

These Programme Regulations are based upon the stipulations set out in the following legal documents:

 a. Ordinance on Course Units and Performance Assessments at ETH Zurich of 22 May 2012[3] (*Leistungskontrollenverordnung ETH Zürich*)

 b. Ordinance on Admission to Studying at ETH Zurich of 30 November 2010[4] (*Zulassungsverordnung ETH Zürich*)

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[1] SR **414.205.1**
[2] RSETHZ **201.04**
[3] SR **414.135.1**, RSETHZ **322.021**
[4] SR **414.131.52**, RSETHZ **310.5**

Part 2:   Credit system

Art. 6   Policy

[1] The degree programme follows a credit system which is aligned with the European Credit Transfer System (ECTS).

[2] ETH Zurich deploys the ECTS in accordance with the Rector's Credit System Guidelines (*Richtlinien zum Kreditsystem*).[(5]

Art. 7   Credits, basis for calculation

[1] Credits describe the average time expenditure required for a student to earn a study achievement.

[2] One credit corresponds to a workload of 30 hours. The workload includes all course-related activities required to obtain credits.

[3] The curriculum is designed in such a way that full-time students can acquire an average of 30 credits per semester.

Art. 8   Allocation of credits

[1] The Departments allocate a certain number of credits to each of the course units they offer.

[2] If an ETH Zurich course unit is found on the curriculum of more than one ETH Zurich degree programme, the department offering the course unit assigns it a standard number of credits in consultation with those integrating it into a programme. The Rector settles any disagreements.

[3] If a course unit is offered by another university that university is responsible for allocating it a certain number of credits.

Art. 9   Issuing of credits

[1] Credits are issued for satisfactory performance. Performance is considered satisfactory if it has been awarded a grade of at least a 4, or a "pass".

[2] No credits are issued for unsatisfactory performance.

[3] The full number of credits are always issued if the prerequisites of Para. 1 have been satisfied. Partial issue of credits is not permitted.

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[5] See *www.directives.ethz.ch*

[4] The number of credits issued is that number published in the Course Catalogue valid at the time the respective performance assessment was undertaken.

Art. 10   Recording, checking, registration

D-GESS records, checks and registers the credits acquired.

Chapter 2:   Content, structure and scope of the Master's degree programme

Part 1:   Course description, structure and scope

Art. 11   Course description, structure

Science and technology interact in many different ways with politics, the economy and society. On the one hand they present new challenges, and on the other they also contribute solutions to social problems. The Master's degree programme in Science, Technology and Policy (STP) provides students with the skills to address the interface of science, technology and politics systematically; to draw up and appraise political courses of action with regard to the challenges of this interface; and to evaluate their implementation. To this end, skills acquired in scientific or technical Bachelor's degree studies are extended in four areas: (1) Supplementary natural sciences or technical subjects ("minors") which deepen knowledge gained during the Bachelor's programme and structure it in an interdisciplinary, problem-oriented context; (2) Courses in social sciences which focus on political analysis and evaluation and economic, social and political processes and institutions in the context of which policy issues arise and are addressed; (3) Case studies and a Master's thesis which address concrete policy issues in an interdisciplinary manner; (4) Electives or an internship.

Art. 12   Programme commencement in the Autumn Semester

Students enter the degree programme in the Autumn Semester.

Art. 13   Scope, duration, limits on duration of studies

[1] As stipulated in Art. 34, 120 credits are required to obtain a Master's degree.

[2] The normal duration of the degree programme is two years.

[3] The maximum permitted duration of studies is four years. The Rector may extend this if cogent grounds are provided in a request submitted by the respective deadline. Requests should be submitted to the Vice-Rector for Study Programmes.

Art. 14   Course Catalogue

[1] D-GESS lists the course units of the degree programme for each semester in the Course Catalogue. This list is binding.

[2] Details regarding entries in the Course Catalogue are set out in Art. 4 of the Ordinance on Performance Assessments at ETH Zurich[6] and in the corresponding implementation stipulations[7] of the Rector.

Art. 15   Language of instruction

Course units and the corresponding performance assessments are normally conducted in English. The language of instruction is subject to the pertaining Rector's directives[8].

Art. 16   Admission to course units

Special admission prerequisites may apply to the attendance of a particular course unit. If these are not specified in these Programme Regulations, they are specified by that ETH Zurich department or the university which offers the respective course unit.

Art. 17   Student exchange (outgoing students)

[1] Students of this degree programme may not take part in an ETH Zurich exchange programme. Individual exchange stays are possible, but mobility credits will in no case be recognised towards the Master's degree. Transcripts of records are governed by the implementation stipulations[9] of the Rector regarding the ETH Zurich Ordinance on Performance Assessments.

[2] Credits from course units of other universities do not qualify as mobility credits if these course units belong to the degree programme curriculum.

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[6] SR **414.135.1,** RSETHZ **322.021**

[7] See *www.directives.ethz.ch*

[8] See *www.directives.ethz.ch*

[9] See *www.directives.ethz.ch*

Part 2: Grouping by category

Art. 18 Grouping by category

[1] Performance achievements in the following categories are required to obtain the Master's degree. The minimum number of credits required in each category is set out in Art. 34.

a. Courses in social sciences

b. Minor in natural sciences and engineering

c. Case studies

d. Electives

e. Master's thesis

[2] D-GESS assigns course units to the categories in Para. 1 and publishes them in the Course Catalogue.

Art. 19 Overview of categories

[1] **Courses in social sciences**

Courses in social sciences impart content and methods central to the course of study described in Art. 11. Further details regarding these courses are provided in Art. 20, and stipulations on performance assessments in Art. 32.

[2] **Minor in natural sciences and engineering**

A selection of minors go beyond the foundations provided in the Bachelor's degree programme to deepen subject knowledge and methodology in the specialist area. Every minor offers courses in both methodology and thematic content. Further details regarding these minors are provided in Art. 21 – 23, and stipulations on performance assessments in Art. 32.

[3] **Case studies**

In the case study context the social-scientific knowledge acquired in the corresponding courses is deployed to investigate the mutual interdependence and influence of the natural sciences, engineering sciences and political/social activities. Details regarding performance assessments are set out in Art. 32.

[3] **Electives**

Electives serve to consolidate subject knowledge specific to the degree programme and extend knowledge in the social sciences and humanities and other disciplines. Students may also undertake an internship which familiarises them with the potential future working environment and gives them the opportunity to become involved in the current projects of the respective institution. Further details, e.g. regarding performance assessments, are provided in Art. 32.

[4] **Master's thesis**

The Master's thesis generally concludes the degree programme. With the Master's thesis students demonstrate their ability to conduct independent, scientifically structured work. Further details are given in Art. 33.

Part 3: Special provisions for the categories "courses in social sciences" and "minor in natural sciences and engineering"

Art. 20 Courses in social sciences

[1] Courses in social sciences must be completed by all students and are labelled accordingly in the Course Catalogue.

[2] To acquire the Master's degree students must earn at least 27 credits in courses in social sciences. If they earn fewer than 27 credits in this category they will fail the degree programme and be excluded from it.

Art. 21 Minor in natural sciences and engineering, selection of minors

[1] The degree programme offers the following minors:
  a. Urbanization & Planning
  b. Energy & Mobility
  c. Data & Computer Science
  d. Life Sciences & Health
  e. Resources & Environment

[2] Students select one of the above minors when they start the programme. They may choose freely, although some students are strongly urged to select a minor which refliects their respective subject backgrounds. This applies to students with a Bachelor's degree in Architecture (recommended minor: Urbanization & Planning) or Mathematics (recommended minor: Data & Computer Science).

[3] The minor can be changed during Master's degree studies if the corresponding prerequisites are fulfilled. For details see Art. 23

Art. 22 Minors: Composition and recognition towards the Master's degree

[1] The allocation of course units to each individual minor is set out in the Course Catalogue.

[2] A minor is only recognised towards the Master's degree if at least 27 credits are acquired in course units allocated to the respective minor.

[3] If a student can no longer obtain the required 27 credits in a minor, e.g. by twice failing the respective performance assessments, that student must select another minor in order to complete the Master's degree programme. The stipulations of Art. 23 still apply.

[4] Course units which were passed in the context of a minor which was not recognised may be recognised in the "electives" category.

Art. 23   Changing the minor

[1] Students may change their minors during the Master's degree programme if both of the following apply:
  a. They can still complete a sufficient number of course units in a new minor to reach the required 27 credits.
  b. They can acquire the total number of credits in all categories still pending towards the Master's degree within the maximum permitted duration of studies (basis for computation: 30 credits per semester).

[2] A change does not entitle the respective student to an extension of the maximum permitted duration of studies.

Chapter 3:   Admission to the Master's degree programme

Art. 24   Prerequisites for admission

[1] Persons who hold a university Bachelor's degree comprising at least 180 ECTS credits or an equivalent university degree in a scientific or engineering discipline or in Architecture or Mathematics may apply for admission to the degree programme.

[2] Details of the academic, language and performance prerequisites for admission (pro-file of requirements) are provided in the Appendix 1.

Art. 25   Application, admission procedure and entry to the Master's degree programme

[1] All candidates should apply to the ETH Zurich Admissions Office for admission to the degree programme.

[2] The degree programme admissions committee investigates candidates' academic backgrounds and suitability for the Master's degree programme and submits a recommendation for admission/rejection to the Director of Studies.

[3] The Rector decides whether to admit/reject the candidate on the basis of the recommendation of the Director of Studies. Candidates admitted are not subject to additional requirements.

[4] Details regarding application, the admission procedure and entry to the Master's degree programme are determined by the Rector. They are set out in the Appendix 1.

Chapter 4: Performance assessments

Part 1: General regulations

Art. 26 Performance evaluation

Performance in examinations is graded. Performance in other forms of performance assessment is either graded or evaluated on a pass/fail basis.

Art. 27 Admission to performance assessments

Admission to performance assessments may be subject to conditions. If these are not specified in these Programme Regulations, they are specified by that ETH Zurich department or the university which offers the respective course unit.

Art. 28 Registering for / deregistering from performance assessments

[1] The following provisions apply to registration for / deregistration from performance assessments at ETH Zurich:

   a. If the performance assessments in question are end-of-semester examinations or session examinations, registration and deregistration are governed by the stipulations of the ETH Zurich Ordinance on Performance Assessments[10] and the associated implementation stipulations of the Rector[11].

   b. If the performance assessments fall into another category, registration and deregistration are generally handled by the respective lecturer in person.

[2] If the performance assessments concerned are those of another university, registration and deregistration are subject to the rules of the respective university.

Art. 29 Absence, interruption, breaking off, late submission or non-submission

The following stipulations apply to absence from, interruption or breaking off of, and late submission or non-submission of performance assessments:

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[10] SR **414.135.1**, RSETHZ **322.021**
[11] See *www.directives.ethz.ch*

a. ETH Zurich performance assessments are governed by the stipulations of the ETH Zurich Ordinance on Performance Assessments[12] and the associated implementation stipulations of the Rector[13].

b. Performance assessments of another university are subject to the rules of the respective university.

Art. 30   Issuing of results, disagreements

[1] Students may view all of their performance results online via the corresponding ETH Zurich application. They are informed by email as to which performance assessment results are now viewable.

[2] The procedure in cases of disagreement regarding newly documented results is outlined each time results are issued.

Art. 31   Dishonest conduct

The sanctions for dishonest conduct in the context of performance assessments are outlined in the Disciplinary Code of ETH Zurich (*Disziplinarordnung ETH Zürich*) of 2 November 2004[14].

Part 2:   Performance assessments of the Master's degree programme

Art. 32   Courses in social sciences, Minor in natural sciences and engineering, Case studies, Electives

[1] Every course unit in the categories 'Courses in social sciences', 'Minor in natural sciences and engineering', 'Case studies' and 'Electives' is subject to a performance assessment.

[2] The respective mode of each performance assessment is listed in the Course Catalogue if the course unit is offered by ETH Zurich.

[3] If a course unit is offered by another university that university determines the performance assessment mode of that course unit.

[4] A performance assessment is passed if it is awarded a grade of at least a 4 or a "pass".

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[12] SR **414.135.1**, RSETHZ **322.021**
[13] See *www.directives.ethz.ch*
[14] SR **414.138.1,** RSETHZ **361.1**

[5] A failed performance assessment may be repeated once unless the ETH Zurich department or the university offering the respective course unit stipulates otherwise.

[6] A passed performance assessment may not be repeated.

[7] The "Electives" category also includes the possibility of conducting an internship. The internship may be counted towards the Master's degree if all of the following stipulations are adhered to:

    a. The internship lasts at least eight weeks and is completed in an industrial firm, a national or international organisation or a public agency in Switzerland or abroad.

    b. The internship must be completed during the period of ETH studies.

    c. The internship is documented in a written confirmation submitted by the company or the institution where it was completed (confirmation of internship). Students themselves are responsible for seeing that the company or institution issues the confirmation of internship.

    d. The confirmation of internship should be submitted to the Director of Studies as early as possible and at the latest when the degree request is made. The Director of Studies decides whether the internship will be recognised (a recognised internship is assessed as 'passed').

    e. Only recognised internships may be counted towards the Master's degree.

Art. 33   Master's thesis

[1] Students are only permitted to commence the Master's thesis if both of the following apply:

    a. They have completed the Bachelor's degree programme.

    b. They have acquired the number of credits required for the Master's degree as per Art. 34 in all categories, with the exception of credits for electives and the Master's thesis itself.

[2] The Director of Studies rules on any exceptions to Para. 1 (b). Exceptions to Para. 1 (a) are not permitted.

[3] The Master's thesis is supervised by two professors, who serve as supervisor and co-supervisor respectively. Normally one of these persons comes from the social sciences and the other from the natural or engineering sciences. The supervisor must be an ETH Zurich professor.

[4] The supervisor and co-supervisor have the following duties:

    a. They determine the theme of the Master's thesis in consultation with the student.

    b. They define the task in writing.

    c. They set out in writing the starting and submission dates of the thesis and the criteria for its assessment.

    d. They assess the thesis and grade it.

[5] The maximum time allowed for completion of the Master's thesis is 28 weeks[15]. The Director of Studies may extend this if a request providing cogent grounds is submitted.

[6] The Master's thesis is passed if it is awarded a grade of at least a 4.

[7] A failed Master's thesis may only be repeated once. If repeated, it must address a new theme. The repetition may proceed under a different supervisor and/or co-supervisor.

[8] A passed Master's thesis may not be repeated.

Chapter 5: Issuing of the Master's degree

Part 1: Credits by category and degree request

Art. 34 Credits by category

[1] The 120 credits required for the Master's degree must be acquired in the following categories in at least the numbers given. Further details are set out in Para. 2.

  a. **Courses**   **90 credits**
   1. **Courses in social sciences**
      (at least 27 credits)
   2. **Minor in natural sciences and engineering**
      (at least 27 credits)
   3. **Case studies** (at least 12 credits)
   4. **Electives** (at least 12 credits)

  b. **Master's thesis**   **30 credits**

[2] The 90 credits in the "Courses" category (Para. 1 (a)) are subject to the following:

  a. At least 27 credits must stem from the category "Courses in social sciences". All of the course units in this category must be completed and the respective performance assessments undertaken (see Art. 20).

  b. At least 27 credits must stem from the category "Minor in natural sciences and engineering". See Art. 22 for further stipulations regarding these credits.

  c. At least 12 credits must stem from the category "Case studies".

  d. At least 12 credits must stem from the category "Electives".

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[15] The 28 weeks comprise 26 weeks of work and 2 weeks of compensation for holidays, sick days and other brief absences.

Art. 35   Degree request

[1] When they have fulfilled the requirements set out in Art. 34, students may request the issue of the Master's degree. The request must be made within four years of starting the Master's degree programme. If a request providing cogent grounds is submitted by the designated deadline the Rector may extend the deadline for the degree request.

[2] The request should contain all the performance achievements with pass grades in the categories listed in Art. 34 which are to be listed in the academic record. In each category the sum of the minimum number of credits set out in Art. 34 must be acquired.

[3] The credits acquired by completing a course unit may not be split or counted more than once.

[4] A maximum of 130 credits are recognised towards the Master's degree. All further study achievements are listed on a separate sheet of the academic record.

[5] The recognition of performance achievements or credits from a previous degree programme is not permitted. Exceptions are listed in Para. 6.

[6] Credits earned at ETH Zurich before taking up Master's degree studies may be recognised as long as the knowledge and skills acquired thereby are integral to the degree programme and the credits in question have not already been recognised towards a degree. The Director of Studies decides whether credits will be recognised. There is no automatic entitlement to recognition.

Part 2:   **Academic record, degree certificate and Diploma Supplement**

Art. 36   Documents

Students who complete the degree programme receive three documents: an academic record, a degree certificate and a Diploma Supplement.

Art. 37   Academic record

[1] The academic record serves as verification of the completed Master's degree.

[2] The academic record contains:
   a. The study achievements listed in the degree request according to Art. 35, Para. 2, including grades and other performance evaluation indicators
   b. The final grade, calculated as the weighted average of all the grades listed in the request with the corresponding credits as the weighting factor

[3] A separate sheet of the academic record lists all further study achievements as set out in the pertaining implementation stipulations[16] of the Rector

[4] D-GESS records, checks and registers the grades and other performance evaluation indicators and issues the order to print the academic record.

Art. 38   Degree certificate and Diploma Supplement

[1] On the certificate are

  a. The institution name 'Eidgenössische Technische Hochschule Zürich' [Swiss Federal Institute of Technology Zurich]

  b. The graduate's personal details

  c. The academic title awarded

  d. The signature of the ETH Zurich Rector

  e. Place and date

  f. The official seal of ETH Zurich

[2] The Diploma Supplement comprises a standardised explanation of the degree.

Chapter 6:   Final clauses

Art. 39   Definitive failure, exclusion from the degree programme

[1] The degree programme is regarded as definitively failed if the conditions for obtaining the Master's degree (acquisition of the required number of credits for the Master's degree according to the stipulations of Art. 34 or any other conditions) can no longer be satisfied due to failure of performance assessments or failure to respect programme deadlines.[(17]

[2] Definitive failure results in exclusion from the degree programme.

Art. 40   Transcript of records after exclusion or abandonment of studies

Students who are excluded from the degree programme or withdraw from it before obtaining the Master's degree receive a transcript of records for non-graduating students which lists all the study achievements generated and evaluated before exclusion or withdrawal.

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[16] See *www.directives.ethz.ch*

[17] Programme deadlines are the deadline for undertaking a performance assessment, individual assigned deadlines and the maximum permitted duration of studies.

Art. 41   Special cases

The Director of Studies settles cases which are not addressed or insufficiently addressed by these Programme Regulations and their Appendix, or other relevant ordinances and directives.

Art. 42   Entry into effect

[1] These Programme Regulations enter into effect on 1 February 2019.

[2] They apply to students who enter the degree programme from Autumn Semester 2019 onwards. This includes cases of re-entry to the degree programme from Autumn Semester 2019 onwards.

On behalf of the Executive Board

President: Joël Mesot
General Secretary: Katharina Poiger Ruloff

Appendix 1

To the Programme Regulations 2019 of the
Master's degree programme in Science, Technology and Policy

29 January 2019   (Version: 29 January 2019)

Applies to students who commence the degree programme in Autumn Semester 2019 or later, including students who are re-entering the degree programme.

<mark>*This English translation is for information purposes only. The German version is the legally binding document.*</mark>

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Subject and scope

This appendix sets out the academic, language and performance prerequisites for and further details regarding admission to the Master's degree programme in Science, Technology and Policy. It supplements the stipulations of the Admission Regulations of ETH Zurich and the Directive on Admission to Master's degree programmes.

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Contents

1   Profile of requirements

Policy

For admission to the Master's degree programme in Science, Technology and Policy (sub-sequently 'the degree programme') the following prerequisites must be satisfied.

1.1   Degree qualifications

[1] Admission to the degree programme presupposes a university Bachelor's degree comprising at least 180 ECTS credits[1] or an equivalent university degree in an engineering or scientific discipline or in Mathematics or Architecture.

[2] A Bachelor's degree qualifies its holder for admission to an ETH Master's degree programme only if it also qualifies said holder to enter, without additional requirements, the desired Master's degree programme within the university system where the Bachelor's degree was acquired. The Rector may also demand proof of this, determining whether such proof must come from the home university or from another university in the country where the Bachelor's degree was acquired.

1.2   Academic prerequisites

[1] Attendance of the degree programme presupposes basic knowledge and skills in engineering and/or scientific disciplines or in Mathematics or Architecture which must in content, scope, quality and skills level be equivalent to those covered at ETH Zurich (discipline requirements profile).

[2] Depending on the academic background of the candidates, there are **two different discipline requirements profiles, each comprising 80 ECTS credits** (credits). Both include training in the relevant methodological scientific thinking. Details are set out in the Sections 1.2.1 and 1.2.2 below.

[3] Admission to the degree programme is not possible if the candidate does not hold a Bachelor's degree in a discipline set out in Section 1.1 or the academic gaps in the candidate's background are too extensive.

1.2.1   Profile of requirements for candidates holding a Bachelor's degree in an engineering or scientific discipline or in Mathematics

The discipline requirements profile comprises a total of **80 credits** and is based upon knowledge and skills covered in the ETH Bachelor's degree programmes in engineering or scientific disciplines or in Mathematics.

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[1] ECTS: European Credit Transfer System. Credits describe the average time expended to achieve a learning goal. One credit corresponds to 25-30 hours of work.

Part A: Bachelor's degree an engineering discipline

Candidates with a Bachelor's degree in an engineering discipline must have a command of subject-specific knowledge and skills in one or more of the following disciplines (*listed alphabetically / the list is not complete*)

– Automatic Control Engineering	– Mechanics
– Chemistry	– Physics
– Computer Science	– Process Engineering
– Fluid Dynamics	– Signals and Systems
– Hydraulics	– Thermodynamics
– Materials	– Structural Engineering
– Mathematics	

Part B: Bachelor's degree in a scientific discipline or in Mathematics

Candidates with a Bachelor's degree in a scientific discipline or in Mathematics must have a command of subject-specific knowledge and skills in one or more of the following disciplines (*the list is not complete*)

– Mathematics	– Computer Science
– Physics	– Earth Sciences
– Chemistry	– Environmental Sciences
– Biology	– Health Sciences

1.2.2 Profile of requirements for candidates holding a Bachelor's degree in Architecture

The discipline requirements profile is divided into two parts, comprises a total of **80 credits** and is based upon knowledge and skills covered in the ETH Bachelor's degree programme in Architecture.

Part 1: Basic knowledge and skills (20 credits)

Part 1 comprises at least 20 credits and covers basic knowledge and skills in Mathematics, Physics or Applied Physics, and technical disciplines:

– Mathematical Thinking and Programming

– Physics or Applied Physics (e.g. Building Physics, Building Materials, Technical Installations etc.)

– Structural Design, Construction

Part 2:   Subject-specific knowledge and skills (60 credits)

Part 2 comprises at least 60 credits and covers subject-specific knowledge and skills in Design and technical disciplines (*the list is not complete*):

– Design (Urban Design, Construction)

– Structural Design

– Building Physics

– Technical Installations

1.3   Language prerequisites

[1] The teaching language of the degree programme is English.

[2] For admission to the degree programme, proof of sufficient knowledge of English (level C1)[(2] must be provided.

[3] Any language certificates must be submitted by the time of entering the degree programme at the latest. The ETH Zurich publishes a list of the language certificates accepted.

1.4   Performance prerequisites

Admission to the degree programme presupposes a very good study performance record in the preceding course of studies.

2   Specific stipulations for admission and entry to the Master's degree programme

2.1   Admission / Rejection

[1] For admission to the degree programme the candidates must satisfy the prerequisites set out in Section 1.1 – 1.4.

[2] Admission is not possible if

a. the academic prerequisites set out in Section 1.2 are not satisfied or the Bachelor's degree in question is not equivalent to the corresponding ETH Zurich degree in content, scope, quality or skills level, or

b. the language prerequisites set out in Section 1.3 are not satisfied, or

c. the performance prerequisites set out in Section 1.4 are not satisfied, or

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[2] The required language level is measured according to the Common European Framework of Reference for Languages (CEFR) scale

2.2   Entering the Master's degree programme

2.2.1 Candidates with a Bachelor's degree from ETH Zurich

To students from an ETH Bachelor's degree programme who have been granted admission, the following applies:

   a. Said students can enrol in the Master's degree programme once they have acquired that number of credits which would qualify them to enrol in the Master's degree programme consecutive to their original subject.[3]

   b. The normal ETH enrolment dates and deadlines apply.

   c. Admission is provisional until the Bachelor's degree is issued. Admission will be revoked if the Bachelor's degree is not or cannot be issued.

2.2.2 Candidates with a Bachelor's degree from another university

Non-ETH graduates who have been granted admission may only begin the degree programme when they have completed the previous (Bachelor's) degree prgramme.

3   Application and admission procedure

[1] All candidates must submit an application for admission to the degree programme to the ETH Zurich Admissions Office. The specifications for application, in particular the documents required and the dates/deadlines for submission, are published on the website of the ETH Zurich Admissions Office (www.admission.ethz.ch).

[2] Application may be made even if the required preceding degree has not yet been issued.

[3] Applications will not be considered if

   a. they are submitted late or not in the correct form, or

   b. the relevant fees have not been paid.

[4] The admissions committee of the degree programme determines how far the background of the candidate corresponds to the profile of requirements and submits an application for admission/rejection to the Director of Studies.

[5] On the request of the Director of Studies the Rector makes the final decision regarding admission or rejection. Candidates admitted are not subject to additional requirements.

[6] The candidate receives a written admissions decision.

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[3] The permitted number of missing credits is set out in the Programme Regulations of the respective consecutive Master's degree programme (e.g., BSc in Physics $\rightarrow$ MSc in Physics).

Appendix 2

To the Programme Regulations 2019 of the
Master' degree programme in Science, Technology and Policy

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Qualification profile

Introduction

Scientific and technological innovation is an important force in society which overlaps strongly with policy. While also providing key elements of many solutions, innovation often gives rise to new problems that policy makers must solve. The purpose of the Master's degree programme in Science, Technology and Policy (STP) is to provide the set of skills needed to effectively engage with public policy, where sound judgments require not only an understanding of science and technology but also depend on knowledge of the institutional, social, and political context within which problems arise. The STP programme equips graduates with significant decision-making authority, and also helps them to move directly into jobs focused on analysis of existing public policies and systematic evaluation of proposed options. To enable graduates to successfully engage with ill-defined issues the STP programme provides both an understanding of policy processes and institutions and a set of methods for framing problems and evaluating options.

Domain-specific knowledge and understanding

Graduates with a Master's degree in Science, Technology and Policy

- are familiar with the phenomena of strategic decision-making in complex institutional environments and the institutional processes and organisational structures of the public sector at national and international levels;

- have mastered – in addition to the core competences of their own natural science or engineering fields – concepts of public policy which merge theoretical economics, political science, law, decision theory, social psychology, ethics, empirical data analysis skills, cultural studies and communication.

Skills

a) Analytical skills

Graduates with a Master's degree in Science, Technology and Policy

- are able to analyse the interests of stakeholders, their competing definitions of public problems, and the range of options that are feasible given institutional, budgetary, and physical constraints;

- are able to model the effects of public policies, including the laws and regulatory changes implemented to further them, in the form of outcomes that are relevant to stakeholders, including economic welfare and other quality-of-life indicators;

- are able to evaluate the effects of past policies using sound empirical methods;
- are able to apply sound scientific methods in environments which feature ill-defined problems and competing interests.

b) Development skills

Graduates with a Master's degree in Science, Technology and Policy

- are able to design effective policy proposals from the perspective of their organisations or employers based on familiarity with public decision-making institutions, organisations and processes;
- are able to solve integrated problems and to think in an innovative and systems-based manner, and possess professional communication and knowledge management skills;
- have mastered cross-disciplinary integrated thinking which combines environmental, economic and technical skills.

Personal and social competences

Graduates with a Master's degree in Science, Technology and Policy

- possess leadership and consensus-building skills that allow them to work in challenging institutional environments while appreciating and navigating among competing goals, priorities, and preferences;
- have the ability to actively listen to and learn from a wide variety of stakeholders, and to communicate knowledge and insights in a respectful and strategic manner;
- are able to communicate and interact in several languages;
- understand how their own values, beliefs, and moral judgements fit into patterns observed in society, and can associate them with various public policy perspectives and implementation strategies.