

Regulations 2021

for the continuing education programme

Master of Advanced Studies ETH in in Future Transport Systems (MAS ETH MZ)

at the Department of Mechanical and Process Engineering of 11 November 2020

The Executive Board of ETH Zurich,

based on Art. 4 Para. 1 Letter a of the ETH Zurich Organisation Ordinance of 16 Dec. 2003¹, decrees:

Section 1: General Provisions

Art 1. Subject

¹ These study regulations define the conditions under which the continuing education programme "Master of Advanced Studies ETH in Future Transport Systems (MAS ETH MZ)", hereinafter referred to as the continuing education programme, can be acquired at ETH Zurich.

² The continuing education programme is assigned to the Department of Mechanical and Process Engineering (D-MAVT).

Art 2. Title

¹ ETH Zurich awards the title for the successfully completed continuing education programme:
Master of Advanced Studies ETH in Future Transport Systems
(Abbreviated: MAS ETH in Future Transport Systems)

Art 3. Management of the continuing education programme

¹ The management of the continuing education programme (management) shall perform the following tasks in particular:

- a. it represents the continuing education programme internally and externally;
- b. it shall liaise with the D-MAVT;
- c. be responsible for finances, personnel and premises.

² The leadership shall be composed of the delegate and the programme coordinator.

³ The delegate shall be appointed by the D-MAVT. The deputy delegates shall be appointed by their respective department.

⁴ The programme coordinator shall be appointed by the Delegate.

⁵ The Extended Management shall consist of the delegate, two alternate delegates and the programme coordinator. Of the deputy delegates, at least one must be from another department outside the D-MAVT.

¹ RSETHZ 201.021

⁶ The extended management is responsible for the pre-selection of applications, in particular the "sur dossier" applications and the associated admission interviews.

Art 4. Credit System

¹ The course of study is based on a credit system that is aligned with the European Credit Transfer and Accumulation System (ECTS). The guidelines of the Rector on the credit system are decisive for the application of ECTS at ETH Zurich.

² Credit points (ECTS) according to ECTS describe the average student workload required for a course.

³ One ECTS corresponds to a workload of 25-30 hours. The workload includes all study-related activities required for the acquisition of ECTS.

⁴ CPs are only awarded for satisfactory performance. A performance is considered sufficient if it is assessed with a grade of at least 4 or with the predicate "passed".

⁵ The D-MAVT shall keep the register of acquired ECTS for all participants in the continuing education programme.

Section 2 Target Group, Content, Scope, Structure and Completion of the Continuing Education Programme

Art 5. Target group and content

The continuing education programme is basically aimed at persons with a university Master's degree in engineering, natural sciences or geography and professional experience in the field of mobility and transport or in a related field. Participants learn to contribute to integrated, sustainable mobility solutions in their respective work context, taking into account the entire mobility system. The content of the continuing education programme is divided into units, each of which deals with one aspect of the mobility system in depth with a focus on Switzerland and a reference to other European or international countries: system aspects, technology potentials, new business models and transport engineering.

Art 6. Scope, duration and limitation of study time

¹ At least 60 ECTS must be acquired for the successful completion of the continuing education programme.

² The continuing education programme shall last at least two years part-time.

³ The maximum permissible duration of study is 3 years part-time. If there are important reasons, the delegate may, on request, extend the permissible duration of study by a maximum of two years.

Art 7. Categories and credits per category

¹ The continuing education programme shall be divided into six categories. The total of 60 ECTS required for successful completion of the continuing education programme shall be acquired in the following categories in the number indicated:

| | |
|--|----------------|
| a. CAS units | 45 ECTS |
| i. CAS ETH in Future Transport Systems: System Aspects | 15 ECTS |
| ii. CAS ETH in Future Transport Systems: Technology Potentials | 15 ECTS |
| iii. CAS ETH in Future Transport Systems: New Business Models | 15 ECTS |
| iv. CAS ETH in in Transport Engineering | 15 ECTS |
| b. Master-thesis | 15 ECTS |

² Details on the categories are regulated in Art. 8.

Art 8. Special provisions on the categories

¹ In the category "CAS units" (Art. 7, let. a), the continuing education certificates "Certificate of Advanced Studies ETH in Future Transport Systems (CAS ETH MZ)" or the "Certificate of Advanced Studies ETH in Traffic Engineering (CAS ETH VI)" are credited, which are regulated separately. The following also applies:

- a. Various "CAS units" are offered, part of which must be completed on a compulsory basis. The compulsory and freely selectable "CAS units" are published on the website of the continuing education programme.
- b. A total of three "CAS units" must be passed, including the compulsory ones.

² The Master's thesis (Art. 7, let. b) is an independent piece of work under the supervision of a professor. The details are regulated in Art. 9.

Art 9. Master thesis

¹ The Master thesis is supervised by a lecturer of ETH Zurich.

² Students who have acquired the minimum number of credits in the category "CAS units" as specified in Art. 7, para. 1, let. b are admitted to the Master's thesis.

³ The student submits a proposal for the topic and assignment of the Master's thesis to the supervisor. The topic should generally be related to the student's place of work and the research activities of the supervisor.

⁴ The programme director sets the date for the start of the Master's thesis as well as the criteria for assessment in writing. The supervising lecturers shall assess the Master's thesis with a grade.

⁵ The deadline for writing the Master's thesis is 20 weeks. Master's theses submitted late shall be deemed failed. The supervisor may grant an extension of the time limit upon request if there are important reasons.

⁶ The Master's thesis is passed if the grade is at least 4.

⁷ In the case of a failed Master's thesis, the supervisor shall determine the conditions still to be fulfilled under which a satisfactory grade can be achieved.

⁸ A Master's thesis that has been passed cannot be repeated.

Art 10. Learning units, performance assessment

¹ Each semester, the management shall determine the course units for the degree programme in the course catalogue². The information in the course catalogue is binding.

² The modalities of the performance assessments for the individual course units are specified in the course catalogue³.

³ A failed performance assessment may only be repeated once.

⁴ A passed performance assessment cannot be repeated.

Art 11. Recognition of previous academic achievements

¹ Credit points that have already been credited for another degree at ETH Zurich or at another university may be credited in the continuing education programme if they were acquired no longer than five years ago and the contents have been approved for credit by the management of the continuing education programme.

² www.vvz.ethz.ch

³ www.vvz.ethz.ch

² Such credited ECTS may not exceed 20% of the total ECTS of the continuing education programme. No ECTS may be credited for the Master's thesis.

³ ECTS acquired within the framework of a "CAS unit" in accordance with Art. 8 may be credited in full, provided they have not already been credited for another degree.

⁴ Re-attendance of a course unit already attended as part of a previous degree at ETH Zurich, including taking the performance assessment, is only possible in justified exceptional cases and with the permission of the delegate.

Art 12. Diploma and Diploma Supplement

Upon fulfilment of the requirements set out in Art. 6, an ETH Diploma according to Art. 2 and a Diploma Supplement according to the guidelines of the Swiss Rectors' Conference (swissuniversities) shall be issued.

Section 3 Admission and Enrolment

Art 13. Admission requirements, admission procedure

¹ Admission to the continuing education programme is open to anyone who:

- a. holds a Master's degree from ETH Zurich or a degree from another university recognised as equivalent; and
- b. has at least two years of professional experience relevant to the continuing education programme.

² Applicants who do not fulfil the requirements according to para. 1 may be admitted by way of exception in accordance with Art. 13 para. 2 of the ETH Zurich Continuing Education Ordinance⁴.

³ Admission is based on the applicant's personal dossier. The admission procedure may be supplemented by an admission interview with the extended management of the continuing education programme.

⁴ The management shall check whether the admission requirements of the individual applicants are fulfilled. The rector shall decide on admission to the continuing education programme.

⁵ There is no entitlement to admission to the continuing education programme.

Art 14. Enrolment, registration, number of participants

¹ Participants in the continuing education programme shall be enrolled by the School for Continuing Education.

² Participants in the continuing education programme shall enrol with the School for Continuing Education.

³ The School for Continuing Education shall determine the formalities of registration, enrolment and enrolment.

⁴ The number of participants in the continuing education programme may be limited by the Rector of ETH Zurich at the request of the delegate.

Art 15. Tuition fees and costs

⁴ SR 414.134.1

¹ In accordance with Art. 6, para. 1 and 3 of the ETH Domain Fee Ordinance⁵, students must pay both tuition fees and a cost contribution.

² The amount of the cost contribution shall be determined by the ETH Executive Board at the request of the head of the continuing education programme.

Art 16. Exclusion from the training programme

Anyone who:

- a. can no longer achieve the required number of ECTS according to Art. 7 due to:
 1. failure to pass performance assessments, or
 2. exceeding the maximum permissible duration of studies; or
- b. failure to pay the tuition fee and/or the cost contribution.

Section 4 Final Provisions

Art 17. Administration of justice

Decisions issued on the basis of these regulations may be contested in accordance with the Federal Act on Administrative Procedure⁶.

Art 18. Special cases

The delegate shall regulate all cases that are not or not sufficiently covered by these regulations or by other relevant ordinances and directives.

Art 19. Entry into force

These Regulations shall enter into force on 1 January 2021.

On behalf of the Executive Board of ETH Zurich

The president: Joël Mesot

The General Secretary: Katharina Poiger Ruloff

⁵ SR 414.131.7

⁶ SR 172.021