Programme Regulations 2006
of the Master’s degree programme in
Management, Technology, and Economics

Department of Management, Technology, and Economics

5 July 2006\(^1\)

This is an English translation only. The original German version is the legally binding document.

<table>
<thead>
<tr>
<th>Articles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 1: General regulations</td>
</tr>
<tr>
<td>Chapter 2: Content, structure and scope of the Master’s degree programme</td>
</tr>
<tr>
<td>Chapter 3: Admission to the Master’s degree programme</td>
</tr>
<tr>
<td>Chapter 4: Performance assessments</td>
</tr>
<tr>
<td>Chapter 5: Issuing of the Master’s degree</td>
</tr>
<tr>
<td>Chapter 6: Final clauses</td>
</tr>
<tr>
<td>Appendix</td>
</tr>
</tbody>
</table>

Version: 26.02.2015 – 4

\(^1\) With changes pursuant to the Departmental Conference D-MTEC resolution of 30.09.2009 and 26.02.2015 and the Executive Board resolution of 31.08.2010 and 16.11.2010. This version of the Programme Regulations (26.02.2015 – 4) replaces the previous version (16.11.2010 – 3).
Programme Regulations 2006 of the
Master’s degree programme in Management, Technology, and Economics
Department of Management, Technology, and Economics

This is an English translation only. The original German version is the legally binding document.

The ETH Zurich Executive Board,
pursuant to Art. 4, Para. 1, Subpara. a of the ETH Zurich Organisational Ordinance (Organisationsverordnung ETH Zürich) of 16 December 2003,\(^2\) 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 Management, Technology, and Economics at the ETH Zurich Department of Management, Technology, and Economics (D-MTEC) may be acquired.

2 The Appendix is a part of these Programme Regulations. Any changes to the Appendix are subject to the approval of the Rector, on the request of or in consultation with D-MTEC.

Art. 2 Academic title

1 Graduates of the ETH Zurich Master’s degree programme in Management, Technology, and Economics (degree programme) are awarded the academic title (in German) Master of Science ETH in Management, Technologie und Ökonomie (abbreviation: MSc ETH MTEC)

2 The English form of this title is

Master of Science ETH in Management, Technology, and Economics (abbreviation: MSc ETH MTEC)

3 This title may also be used in the abbreviated form 'MSc ETH'.

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\(^2\) RSETHZ 201.021
Art. 3 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*)

Art. 4 Course Catalogue

1 D-MTEC 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 General Ordinance on Performance Assessments at ETH Zurich\(^5\) and in the corresponding implementation stipulations\(^6\) of the Rector.

Art. 5 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\(^7\).

Art. 6 Admission to course units

Special admission prerequisites may apply to the attendance of a particular course unit. These are determined by that ETH Zurich department or that university which offers the course unit.

Part 2: Credit system

Art. 7 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 Credit System Guidelines of the Rector (*Richtlinien zum Kreditsystem*).\(^8\)

\(^3\) RSETHZ 322.021en (*in English*), SR 414.135.1 (*in German*)

\(^4\) (*only in German*) SR 414.131.52, RSETHZ 310.5

\(^5\) RSETHZ 322.021en (*in English*), SR 414.135.1 (*in German*)

\(^6\) See www.directives.ethz.ch

\(^7\) See www.directives.ethz.ch

\(^8\) See www.weisungen.ethz.ch (*only in German*)
Art. 8 Credits

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

Art. 9 Basis for calculation

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

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

Art. 10 Allocation of credits

1 D-MTEC allocates a certain number of credits to each of the course units it offers.

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. 11 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.

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. 12 Recording, checking, registration

D-MTEC records, checks and registers the credits acquired.
Chapter 2: Content, structure and scope of the Master’s degree programme

Part 1: Content, structure and scope

Art. 13 Programme content

1 The Master’s degree programme Management, Technology and Economics (hereafter referred to as MTEC) builds upon a broad technical and/or scientific foundation. Students of the programme acquire interdisciplinary skills in the areas listed in Para. 2. These interdisciplinary skills, augmented by a specialisation in one subject area, train graduates to be independent problem-solvers and equip them to assume leadership positions.

2 Skills areas:
   a. General Management and Human Resources Management
   b. Strategy, Technology and Innovation Management
   c. Information Management and Operations Management
   d. Quantitative and Qualitative Methods for Solving Complex Problems
   e. Micro and Macroeconomics
   f. Financial Management

3 Because a foundation in technology and/or science is required for admission to the Master’s degree programme and because of the technical nature of the management and economics covered during the programme, the level of knowledge acquired during the MTEC Master’s degree programme corresponds to that of degree programmes in Industrial Management and Engineering.

Art. 14 Commencement of the programme

Students may commence the Master’s degree programme in either the Autumn or the Spring Semester. Most begin in the Autumn Semester.

Art. 15 Scope, duration, limits on duration of studies

1 As stipulated in Art. 39, 120 credits are required to obtain a Master’s degree.

2 The normal duration of the degree programme is two years. There is no minimum duration of studies.

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.
If admission to the degree programme is granted subject to the acquisition of additional credits (admission with additional requirements) the maximum permitted duration of studies may be extended by one semester for required extra credits in the range of 21 – 30 and by two semesters for required extra credits in the range of 31 – 60. For fewer than 21 required extra credits no extension is granted.

**Art. 16 Structure, study procedures**

1 The Master’s degree programme in MTEC is structured according to the skills areas listed in Art. 13, which each involve several course units (core courses).

2 To ensure mastery of the required core skills students must normally complete core courses in all skills areas. In addition, they deepen knowledge in one subject area (specialisation) via an individually compiled specialisation programme which is assembled by each student in consultation with the tutor.

3 Details regarding attendance of core courses and the individual specialisation programme, including the tutoring system, are provided in Art. 22 and 23.

**Art. 17 Study Guide**

Programme procedures are explained in the degree programme Study Guide.

**Art. 18 Transferring from the ETH Zurich MAS MTEC/BWI programme**

1 Students enrolled in the ETH Zurich MAS MTEC/BWI (MAS MTEC) programme may transfer to or enter the Master’s degree programme in MTEC (MSc MTEC) provided that they fulfil the pertaining admission requirements. Transfer or entry proceed according to the usual application and admission procedures.

2 Credits acquired in the context of the MAS MTEC programme are recognised towards the Master’s degree in MTEC (MSc MTEC) provided that
   a. the corresponding course units also belong to the MSc MTEC curriculum;
   b. not more than five years have passed between acquisition of the credits and the beginning of the Master’s degree programme (MSc MTEC);
   c. the credits have not already been recognised towards an earlier degree.

3 Recognition of credits according to Para. 2 proceeds via transfer of credits, i.e. the course units completed during the MAS MTEC programme, the grades awarded and the corresponding credits are listed in the academic record of the MSc MTEC programme.

4 If transfer or entry to the Master’s degree programme in MTEC takes place after the MAS MTEC programme has been completed, no credits recognised towards the MAS MTEC qualification may be counted towards the Master’s degree in MTEC.
Art. 19  Student exchange (outgoing students)

1 During the Master’s degree programme credits may be acquired at other universities (mobility credits). Of these a maximum of 30 may be counted towards the Master’s degree. The stipulations of Para. 1\textsuperscript{bis} and 1\textsuperscript{ter} still apply.

1\textsuperscript{bis} Students who did not complete the preceding (Bachelor’s) degree at ETH Zurich may not take part in ETH Zurich exchange programmes. Individual exchange stays are possible, but the recognition of mobility credits towards the Master’s degree is not possible.

1\textsuperscript{ter} If admission to the degree programme is subject to the acquisition of additional credits (admission with additional requirements) an exchange stay is only possible after all additional requirements have been fulfilled. Mobility credits may not be counted towards fulfilment of additional requirements.

2 The following credits do not qualify as mobility credits:
   a. credits from course units of other universities if said course units belong to the degree programme curriculum
   b. credits from the Master’s thesis, because the thesis is always supervised by an D-MTEC professor (see Art. 38 Para. 2)
   c. credits earned for the industrial internship

3 Before a period of student exchange the respective student, with the help of the tutor, draws up a written study plan which includes the credits to be acquired at the host university. This study plan requires the approval of the Director of Studies.

4 The Director of Studies makes the final decision on recognition of mobility credits. Treatment of transcripts of records is governed by Art. 16 of the Ordinance on Performance Assessments at ETH Zurich\textsuperscript{9} and the corresponding implementation stipulations\textsuperscript{10} of the Rector.

\textsuperscript{9} RSETHZ 322.021en (in English), SR 414.135.1 (in German)
\textsuperscript{10} See www.directives.ethz.ch
Part 2: Fields of study and grouping by category

Art. 20 Grouping by category

1 To obtain a Master’s degree study achievements are required in the following categories. The minimum number of credits required in each category is set out in Art. 39.
   a. Core courses
   b. Electives
   c. Supplementary courses
   d. Industrial internship
   e. Master’s thesis

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

Art. 21 Overview of categories

1 Core courses: Core courses cover the fundamentals of the skills areas listed in Art. 12 and are of central importance. Details regarding attendance of core courses are provided in Art. 22 and 23; stipulations governing performance assessments are found in Art. 36.

2 Electives: Electives extend and deepen the knowledge imparted in the previous Bachelor’s degree programme and in the core courses of the Master’s degree programme. Details regarding attendance of electives are provided in Art. 23; stipulations governing performance assessments are found in Art. 36.

3 Supplementary courses: Supplementary courses deepen the technical and/or scientific knowledge imparted in the Bachelor’s degree programme, to equip the student with more extended knowledge in these areas after completion of the Master’s degree programme. Details regarding attendance of supplementary courses are provided in Art. 24; stipulations governing performance assessments are found in Art. 36.

4 Industrial internship: The knowledge and experience gained during the industrial internship through the student’s own practical work and through observation form an important extension of the D-MTEC programme. Further details are given in Art. 37.

5 Master’s thesis: The Master’s thesis concludes the degree programme. With the Master’s thesis students demonstrate their ability to produce independent, structured scientific work. Further details are given in Art. 38.
Part 3: Particular stipulations governing the skills areas, the individual specialisation programme and the supplementary courses

Art. 22 Skills areas, core courses

1 The skills areas listed in Art. 13 each comprise several course units (core courses). D-MTEC allocates core courses to the individual skills areas according to separate guidelines. Details regarding the content of the skills areas are provided in the Study Guide to the MTEC Master’s degree programme.

2 At least 42 credits must be earned in core courses to obtain the Master’s degree. The following stipulations also apply:
   a. A required minimum number of credits must also be obtained in each skills area. The corresponding details are provided by D-MTEC in separate guidelines (Study Plan). The minimum number of credits given in these guidelines may exceed, but not come to less than 42.
   b. If the required number of credits in a skills area can no longer be acquired the Master’s degree programme in MTEC will be regarded as failed and the student in question will be excluded from the degree programme.
   c. Further credits in core courses may be acquired in the context of the individual specialisation programme according to the stipulations of Art. 23.
   d. Students who have already acquired the minimum knowledge or the minimum number of credits required in a skills area during the previous (Bachelor’s) degree programme must either complete further core courses from this skills area or earn more than the minimum required number of credits in other skills areas. The affected students, in consultation with their tutors, set out the core courses to be completed in the individual specialisation programme. A reduction in the minimum number of required credits is not possible.
   e. D-MTEC is responsible for overseeing compliance with the stipulations of Subpara. a – d.
Art. 23  Individual specialisation programme, tutoring system

1 During the Master’s degree programme specialised knowledge must be acquired in one subject area (the specialisation).

2 During the first semester of the Master’s degree programme every student selects a professor from the D-MTEC faculty to be his/her tutor. In consultation with the tutor the student then draws up the individual specialisation programme, which comprises a combination of core and elective courses.

3 A Master’s degree programme may not be undertaken without a tutor. The student has no rights to a particular tutor.

4 The Director of Studies can, on request, approve a change of tutor if cogent grounds are given. A change is only possible at the beginning of a semester. Any disputes between the Director of Studies and the respective student are settled by the Rector.

Art. 24  Supplementary courses

The tutor selects the supplementary courses to be attended in consultation with the student.

Chapter 3: (11) Admission to the Master’s degree programme

Art. 25  Prerequisites for admission

1 Admission to the degree programme requires a university Bachelor’s degree comprising at least 180 ECTS credits or an equivalent university degree in Mechanical Engineering or Electrical Engineering and Information Technology or another qualifying discipline.

2 Details of the academic and language prerequisites for admission (profile of requirements) are provided in the Appendix.

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11 Version pursuant to the Executive Board resolution of 31.08.2010. It applies to students who enter the degree programme from Autumn Semester 2011 onwards. This chapter was revised (Articles 25 and 26 were revised; articles 27 and 28 were rescinded) following the restatement of the profile of requirements for the degree programme (provided in the Appendix).
Art. 26  Enrolment, admission procedure and entry to the Master’s degree programme

1 Students of the Bachelor’s degree programme in Mechanical Engineering or Electrical Engineering and Information Technology already matriculated at ETH Zurich may enrol directly in the Master’s degree programme in Management, Technology, and Economics.

2 All other interested parties should apply to the ETH Zurich Rectorate for admission to the degree programme.

3 The admissions committee of D-MTEC investigates candidates’ academic backgrounds and suitability for the Master’s degree programme and submits a recommendation for admission/rejection to the Director of Studies.

4 The Rector decides whether to admit/reject the candidate on the basis of the recommendation of the Director of Studies.

5 The Rector may, depending on the candidate’s qualifications and previous knowledge, make admission conditional upon the acquisition of additional knowledge and competences during the Master’s degree programme (admission with additional requirements).

6 Details regarding enrolment or application, the admission procedure and entry to the Master’s degree programme are determined by the Rector. They are set out in the Appendix.

Art. 27  Rescinded

Art. 28  Rescinded
Chapter 4: Performance assessments

Part 1: General regulations

Art. 29 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. 30 Admission to performance assessments

Admission to performance assessments may be subject to conditions. These are specified by the department of ETH Zurich or the university offering the respective course unit.

Art. 31 Registering/deregistering for performance assessments

1 The following stipulations apply to registration/deregistration for performance assessments at ETH Zurich:

a. If the performance assessments in question are session examinations or end-of-semester examinations, registration and deregistration are governed by the stipulations of the ETH Zurich Ordinance on Performance Assessments\(^{12}\) and the corresponding implementation stipulations\(^{13}\) of the Rector.

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

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

Art. 32 Absence, interruption, abandonment, late submission or non-submission

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

a. For ETH Zurich performance assessments the stipulations of the ETH Zurich Ordinance on Performance Assessments\(^{14}\) and the corresponding implementation stipulations\(^{15}\) of the Rector apply.

b. For performance assessments of other universities the rules of the respective university apply.

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\(^{12}\) RSETHZ 322.021en (in English), SR 414.135.1 (in German)

\(^{13}\) See www.directives.ethz.ch

\(^{14}\) RSETHZ 322.021en (in English), SR 414.135.1 (in German)

\(^{15}\) See www.directives.ethz.ch
Art. 33  Rescinded\textsuperscript{16}

Art. 34  Issuing of results, disagreements

1 Students may view all of their performance results via the internet in the respective ETH Zurich application. They are informed by email when their examination results become viewable.

2 Every communication outlines the procedure in cases of disagreement about newly documented results.

Art. 35  Unethical behaviour

The sanctions for unethical behaviour in the context of performance assessments are governed by the Disciplinary Code of ETH Zurich (\textit{Disziplinarordnung ETH Zürich}) of 2 November 2004.\textsuperscript{17}

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

Art. 36  Core courses, electives, supplementary courses

1 Every course unit in the categories ‘core courses’, ‘electives’ and ‘supplementary courses’ 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 said course unit.

4 A performance assessment is passed if it is awarded a grade of at least a 4 or a ‘pass’.

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

Art. 37  Internship in industry

1 The internship in industry is undertaken in a company and lasts at least ten weeks. It may be completed in Switzerland or abroad either before or during the Master’s degree programme.

\textsuperscript{16} Rescinded by the Executive Board resolution of 16.11.2010.

\textsuperscript{17} RSETHZ 361.1\textit{eng} (\textit{in English}), SR 414.138.1 (\textit{in German})
2 It is the student’s responsibility to obtain a confirmation of the completed internship from the respective company.

3 The industrial internship is evaluated on a pass/fail basis, subject to the confirmation mentioned in Para. 3 above.

4 A failed industrial internship may be repeated once.

5 Further details are set out in the separate D-MTEC regulations regarding industrial internships.

Art. 38 Master’s thesis

1 A student is only permitted to commence the Master’s thesis if
   a. the Bachelor’s degree programme has been completed
   b. any additional requirements for admission to the degree programme have been fulfilled
   c. the industrial internship according to Art. 37 has been completed and the corresponding credits have been acquired
   d. the academic writing course has been completed.

2 The Master’s thesis project is supervised by the tutor and normally covers a theme from the selected specialisation. It may be conducted at ETH Zurich, in a company or – in exceptional cases and with the prior written permission of the tutor – at another university.

3 The length of time allowed for completion of the Master’s thesis is six months (full-time studies). The Director of Studies may on request approve an extension if cogent grounds are given. His/her decision is final.

4 The tutor defines the task to be addressed, puts down the starting date of the Master’s thesis project, the deadline for thesis submission and the evaluation criteria in writing, and grades the student’s performance.

5 The Master’s thesis is passed if it is awarded a grade of at least a 4.

6 A failed Master’s thesis project may be repeated once. If it is repeated, a new theme must be addressed. The repetition may be conducted with a new tutor.

18 Version pursuant to the Departmental Conference D-MTEC resolution of 26.02.2015. It applies to students who enter the degree programme from Spring Semester 2015 onwards.
Chapter 5: Issuing of the Master’s degree

Part 1: Credits by category and the degree request

Art. 39 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. The numbers provided for core courses, electives and supplementary courses below are the minimums required. Further details are provided in Para. 2 – 4.

a. Core courses at least 42 credits (see Art. 22, Para. 2, Subpara. a)
b. Electives at least 10 credits
c. Supplementary courses at least 12 credits
d. Industrial internship 6 credits
e. Master’s thesis 30 credits

2 At least 90 of the required 120 credits must be acquired at ETH Zurich. Exceptions are listed in Art. 19 (Student exchange).

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

4 Study achievements accrued prior to the Master’s degree programme may not be counted towards the Master’s degree, with the following exceptions:

a. Credits acquired at ETH Zurich may be recognised in the categories ‘Core courses’, ‘Electives’ or ‘Supplementary courses’ (Para. 1, Subpara. a – c) if these credits have not already been counted towards a degree and if the student in question remained matriculated at ETH between acquiring said credits and commencing the Master’s degree programme.

b. Credits for industrial internships or the equivalent may be recognised in the category ‘Industrial internship’ (Para. 1, Subpara. d).

c. Credits earned in the context of the MAS MTEC programme are subject to the special stipulations set out in Art. 18.
Art. 40  Degree request

1 When they have fulfilled the particular requirements set out in Art. 22 – 24 and Art. 39, students may request the issue of the Master’s degree. This request must be submitted within four years of commencing 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. 39, Para. 1 which are to be listed in the academic record. In each category the sum of the minimum number of credits set out in Art. 39, Para. 1 must be acquired.

3 A maximum of 130 credits are recognised towards the Master’s degree.

Part 2: Academic record, degree certificate and Diploma Supplement

Art. 41  Documents

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

Art. 42  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. 40, Para. 2, including grades and other performance evaluation indicators.
   b. the final grade, calculated according to the stipulations of Para. 3
   c. a separate sheet of the academic record lists:
      1) any additional admission requirements
      2) all further study achievements according to the corresponding implementation stipulations\(^{19}\) of the Rector

3 The final grade is calculated as the weighted average of all the grades listed in the request with the corresponding credits as the weighting factor. The Master’s thesis grade is accordingly weighted at 30.

4 D-MTEC records, checks and registers the grades and other performance evaluation indicators and issues the academic record.

\(^{19}\) See www.directives.ethz.ch
Art. 43  Degree certificate, Diploma Supplement

Details regarding the degree certificate are set out in Art. 28 of the ETH Zurich Ordinance on Performance Assessments.\(^{20}\)

The Diploma Supplement comprises a standardised explanation of the degree.

Chapter 6:  Final clauses

Art. 44  Definitive failure, exclusion from the degree programme

The degree programme is regarded as definitively failed if one of the following applies:

a. 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. 39, or any other conditions) can no longer be satisfied due to failure of performance assessments or failure to respect programme deadlines.\(^{21}\)

b. In cases of admission with additional requirements said additional requirements have not been fulfilled due to failure of performance assessments or failure to respect the deadlines set for them.

Definitive failure results in exclusion from the degree programme.

Art. 45  Transcript of records for non-graduating students

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

Art. 46  Rescinded

Art. 47  Entry into effect

These Programme Regulations enter into effect at the beginning of Winter Semester 2006/2007. They apply to students who enter the degree programme from that date onwards.

On behalf of the Executive Board
President: Hafen
Delegate: Bretscher

\(^{20}\) RSETHZ 322.021en (in English), SR 414.135.1 (in German)

\(^{21}\) Programme deadlines are the deadline for undertaking a performance assessment, individual assigned deadlines and the maximum permitted duration of studies.