



TEACHING AND EXAMINATION REGULATIONS (TER)

IN ACCORDANCE WITH ARTICLE 7.13 OF THE [DUTCH] HIGHER
EDUCATION AND RESEARCH ACT [WHW]

INTERFACULTY MASTER DEGREE PROGRAMME
TRANSPORT, INFRASTRUCTURE & LOGISTICS

ANNEX

2022
2023

THESE TEACHING AND EXAMINATION REGULATIONS APPLY
TO ALL STUDENTS OF THE COHORT 2022-2023

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TER

IN ACCORDANCE WITH ARTICLE 7.13 OF THE [DUTCH] HIGHER EDUCATION
AND RESEARCH ACT [WHW]

INTERFACULTY MASTER DEGREE PROGRAMME
TRANSPORT, INFRASTRUCTURE & LOGISTICS

2022
2023

Paragraph 1

General

Article 1 Applicability of the regulations¹

1. These regulations including the programme specific annexes, apply to the teaching and the examinations of:
 - » the Master degree programme in Civil Engineering (CIE)
 - » the Master degree programme in Environmental Engineering (ENV)
 - » the Master degree programme in Applied Earth Sciences (AES)
 - » the Interfaculty 4TU Master degree programme Construction Management and Engineering (CME)
 - » the Interfaculty Master degree programme Transport, Infrastructure and Logistics (TIL)

hereinafter referred to as 'the programme' or 'programmes'.

These regulations also apply to the bridging programmes of the aforementioned programme(s).

2. For **AES, CIE and ENV**, the programme is provided under the responsibility of the faculty of Civil Engineering and Geosciences of Delft University of Technology, hereinafter referred to as the 'faculty'.
For **CME**, the programme is provided under the responsibility of the faculty of Civil Engineering and Geosciences, the faculty of Architecture & the Built Environment, and the faculty of Technology, Policy & Management.
For **TIL**, The programme is provided under the responsibility of the faculty of Civil Engineering and Geosciences, the faculty of Mechanical, Maritime and Materials Engineering, and the faculty of Technology, Policy & Management

Article 2 Concepts

A list of relevant websites can be found in the appendix to this article.

1. The following concepts apply in this Regulation:

- | | |
|-------------------------------------|--|
| a. academic year: | the period from 1 September until and including 31 August of the following calendar year; |
| b. Act: | the Higher Education and Scientific Research Act (in Dutch, the WHW), Dutch Bulletin of Acts, Orders and Decrees 593 and any amendments since its introduction; |
| c. annex (former: IR); | the appendix which forms part of these Teaching and Examination Regulations; |
| d. Board of Examiners: | the programme's Board of Examiners, which has been installed in accordance with Article 7.12 of the Act; |
| e. bridging programme: | a deficiency rectifying programme aimed at moving up to a Master's degree programme, while enrolled in a Bachelor's degree programme, but without obtaining a Bachelor's degree, as stipulated in Article 7.30e or Article 7.57i of the Act; |
| f. cohort: | the group of students who have registered for a degree programme for the first time in a given academic year; |
| g. course (or: 'subject'); | a teaching unit within the programme, as stipulated in Article 7.3, Sections 2 and 3 of the Act; a course can consist of a number of components; |
| h. credit: | a European Credit (EC) awarded in line with the European Credit Transfer System (ECTS); one credit equals a study load of 28 hours; |
| i. (component) partial examination: | an assessment of the knowledge, insight and skills of a student in relation to a component within a course, as well as the marking of that assessment by at least one examiner, appointed for that purpose by the Board of Examiners; |
| j. dean: | Dean of the faculties mentioned in Article 1, Section 2 or Dean that represents the Deans of the faculties mentioned in Article 1, Section 2; |
| k. degree: | an academic title conferred by universities and colleges as an indication of the completion of a course of study, or as an honorary recognition of achievement; |

¹ This Teaching and Examination Regulation (TER) is established per academic year and is valid as of the first day of the relevant academic year. This TER replaces all previous versions of the TER. The Study Guide is an integral part of the TER and its Annex.



- l.** degree audit: the evaluation, in which, in accordance with Article 7.10 of the Act, the Board of Examiners determines whether all examinations in the courses of the degree programme have been successfully completed;
- m.** disability: all conditions which are (at least for the specified period) chronic or lasting in nature and which form a structural limitation for the student in receiving education and/or sitting examinations or taking part in practicals;
- n.** education registration system: the current education registration system is Osiris;
- o.** examination: an assessment of the knowledge, insight and skills of a student in relation to a course, as well as the marking of that assessment by at least one examiner, appointed for that purpose by the Board of Examiners;
- p.** examiner: the individual who, in line with Article 7.12, Subsection 3 of the Act, has been appointed by the Board of Examiners to set the examinations;
- q.** institute: Delft University of Technology;
- r.** interim examination: the assessment of the examinee's knowledge, insight and skills and the results of the assessment as referred to in Section 7.10, first subsection of the WHW;
- s.** learning management platform: the current learning management platform is Brightspace;
- t.** module: a constituent part of the Master degree programme Applied Earth Sciences, Civil Engineering, and Environmental Engineering, consisting of one unit or several connected and coordinated units. Modules with their own code count as a "course" in the sense of these regulations;
- u.** practical exercise: course or component of a course aimed at the acquisition of particular skills. The following can be understood as practical exercises:
- writing a thesis,
 - conducting a project or experimental design,
 - carrying out a project or a design/research assignment,
 - completing an internship,
 - participating in field work or an excursion,
 - conducting tests and experiments, or
 - participating in other educational activities that are considered essential and that are aimed at acquiring particular skills.
- v.** programme: the Master degree courses as stipulated in Article 7.3a, Section 1 in the Act;
- w.** programme duration: the duration starting from the enrolment of the student, up and to including the last examination;
- x.** student: a person enrolled at Delft University of Technology in order to receive education and take the examinations and the degree audit in the degree programme;
- y.** study guide: the digital guide for the degree programme containing specific information on the courses included in the degree programme (www.studiegids.tudelft.nl);
- z.** teaching period: half a semester;
- aa.** track major, as stipulated in Article 7.13, Section 2, Subsection b of the Act;
- aa.** virtual learning environment: the electronic system designed for the exchanging of teaching information (here: Brightspace);
- bb.** (module) unit or theme: part of a module. Units or themes with a separate code count as a "course" in the sense of these regulations;
- cc.** working day: Monday through Friday, with the exception of recognised holidays and the collective closure days.

2. The other concepts in these regulations are used in the sense in which they appear in the Act.

3. In these regulations, the term 'examination' also refers to 'interim examination', with the exception of Article 19, Section 1, first two complete sentences.

4. A written or oral examination may also be taken digitally and/or online. In these regulations the term examination is also taken to mean a digital and/or online examination, unless stated otherwise in these regulations.



Paragraph 2

Admission and prior education

Article 3a Admission to the Master's degree programme

1. Individuals holding one of the following degrees have access to the education of the Master's degree programme in Applied Earth Sciences (under a) or Civil Engineering (under b) or Environmental Engineering (under c) or Construction Management and Engineering (under d) or Transport, Infrastructure and Logistics (under e) on the condition that all of the stated requirements have been met.

a. Applied Earth Sciences:

- » Bachelor degree "Technische Aardwetenschappen" or "Applied Earth Sciences" from Delft University of Technology;
- » Bachelor degree Aerospace Engineering from Delft University of Technology;
- » Bachelor degree Civil Engineering from Delft University of Technology;
- » Bachelor degree Electrical Engineering from Delft University of Technology;
- » Bachelor degree "Maritieme Techniek" from Delft University of Technology;
- » Bachelor degree "Technische Natuurkunde" from Delft University of Technology;
- » Bachelor degree "Werktuigbouwkunde" from Delft University of Technology.

b. Civil Engineering:

- » Bachelor degree Civil Engineering from Delft University of Technology or Bachelor degree Civil Engineering from University of Twente.

c. Environmental Engineering:

- » Bachelor degree Civil Engineering from Delft University of Technology or University of Twente;
- » Bachelor degree Applied Physics from Delft University of Technology;
- » Bachelor degree Aerospace Engineering from Delft University of Technology;
- » Bachelor degree "Maritieme Techniek" from Delft University of Technology;
- » Bachelor degree "Werktuigbouwkunde" from Delft University of Technology;
- » Bachelor degree Nanobiology from Delft University of Technology.

d. Construction Management and Engineering:

- » Bachelor degree Architecture, Urbanism and Building Sciences ("Bouwkunde") from Delft University of Technology or from Eindhoven University of Technology;
- » Bachelor degree Civil Engineering (Civiele Techniek) from Delft University of Technology or University of Twente;
- » Bachelor degree Systems Engineering, Policy Analysis and Management (Technische Bestuurskunde) from Delft University of Technology;
- » Bachelor degree Industrial Engineering & Management from University of Twente;
- » Bachelor degree Industrial Engineering from Eindhoven University of Technology;
- » Bachelor degree in Sustainable Innovation from Eindhoven University of Technology.

e. Transport, Infrastructure and Logistics:

- » Bachelor degree "Civiele Techniek" from Delft University of Technology or University of Twente
- » Bachelor degree Electrical Engineering from Delft University of Technology, Eindhoven University of Technology or University of Twente;
- » Bachelor degree "Luchtvaart- en Ruimtevaarttechniek" from Delft University of Technology;
- » Bachelor degree "Maritieme Techniek" from Delft University of Technology;
- » Bachelor degree "Technische Bestuurskunde" from Delft University of Technology;
- » Bachelor degree "Technische Informatica" from Delft University of Technology, Eindhoven University of Technology or University of Twente;
- » Bachelor degree "Technische Natuurkunde" from Delft University of Technology, Eindhoven University of Technology, University of Twente or University of Groningen;
- » Bachelor degree "Technische Wiskunde" from Delft University of Technology, Eindhoven University of Technology, University of Twente or University of Groningen;



- » Bachelor degree “Werktuigbouwkunde” from Delft University of Technology, Eindhoven University of Technology or University of Twente;
- » Bachelor degree “Econometrie en Operationele Research” at Erasmus University Rotterdam, University of Amsterdam, VU Amsterdam, University of Groningen, Tilburg University or Maastricht University;
- » Bachelor degree “Technische Bedrijfskunde” at Eindhoven University of Technology, University of Twente or University of Groningen.

Depending on the Bachelor degree, certain synchronisation courses are mandatory, according to the Annex of the programme in question.

2. Students who do not possess the degree mentioned in Section 1 are required to obtain proof of admission to the programme from the Dean, who will seek the advice of the admission committee on this matter.

a. Other university Bachelor degree (not including those listed in Section 1)

The following applies to this category: successful completion of the stated bridging programme for admission to the Master degree programme:

Civil Engineering and Applied Earth Sciences and Environmental Engineering:

- » University Bachelor degree. Bridging programme to be followed: to be specified by the Director of Studies upon application

Construction Management and Engineering:

- » University Bachelor degree: students who do not possess any of the degrees mentioned in Section 1 may be eligible for, and should therefore seek advice on, a Bridging minor or custom bridging programme, as stipulated in the Annex for the MSc CME.

Transport, Infrastructure and Logistics:

A university Bachelor degree at Delft University of Technology or equivalent in:

- » “Bouwkunde” (also at Eindhoven University of Technology);
- » “Industrieel Ontwerpen” (also at University of Twente);

or a university Bachelor degree in:

- » “Landschapsarchitectuur en Ruimtelijke Planning” at Wageningen University,
- » “Technische Planologie” at University of Groningen,
- » “Sociale Geografie en Planologie” at University of Amsterdam, Utrecht University or University of Groningen gives admission to the Master’s degree programme, in which a convergence programme has to be completed.

This convergence programme will be part of the Master’s degree programme in Transport, Infrastructure and Logistics and consists of convergence courses stated in the Annex to the TER.

Individuals who have received foreign education prior to the earned Bachelor’s degree, must meet the requirements of satisfactory linguistic mastery of Dutch, as stated in the appendix, before one can participate in a Dutch-language bridging programme.

The foregoing requirement does not apply to pre-switchers who were registered in the academic year 2021-2022, with uninterrupted enrolment for the academic years 2022-2023, 2023-2024 and 2024-2025

b. Higher professional education degree

The following applies to this category:

Successful completion of the stated bridging programme for admission to the Master degree programme and, if applicable, the language requirement.

Civil Engineering and Applied Earth Sciences and Environmental Engineering:

Bridging programme to be followed: Transitional programme for students with a Dutch higher vocational institute Bachelor degree ("HBO") as stipulated in the programme-specific Annex.

Construction Management Engineering:

Bridging programme to be followed: Transitional programme for students with a Dutch higher vocational institute Bachelor degree ("HBO") as stipulated in the Annex.

Transport, Infrastructure and Logistics:

A relevant higher professional education degree gives admission to the programme only after successful completion of the bridging programme stated in the Annex to this TER and, if applicable, the language requirement.

Individuals who have received foreign education prior to the earned higher professional education degree, must meet the requirements of satisfactory linguistic mastery of Dutch, as stated in the appendix, before one can participate in a Dutch-language bridging programme.

The foregoing requirement does not apply to pre-switchers who were registered in the academic year 2021-2022, with uninterrupted enrolment for the academic years 2022-2023, 2023-2024 and 2024-2025

c. Foreign degree

This category is subject to the general selection requirements of Delft University of Technology with regard to prior foreign education, based on a Cumulative Grade Point Average of at least 75% of the maximum number of points that could be earned, included in the table of countries (see website) and meeting the requirements for satisfactory linguistic mastery of English, as stated in the appendix to Article 3.

3. For admission in accordance with section 2, the following additional condition applies:
Access to the education of the Master degree programme in Applied Earth Sciences, Civil Engineering, Environmental Engineering, Construction Management and Engineering or Transport, Infrastructure and Logistics is open to individuals who have demonstrated to the admissions committee that they possess knowledge, insight and skills at the level of the Bachelor degree mentioned in sections 1 and 2.

Article 3b Completion of bridging programme prior to the degree programme

1. A student who is enrolled in a bridging programme with the aim of being admitted to the Master degree programme at TU Delft must complete this bridging programme within two academic years. Deviations from the bridging programme are not allowed.
2. After the programme duration of the bridging programme, the enrolment of the student will be cancelled. Under exceptional circumstances the student can submit an well-founded request for an extension of the course duration for a period of at most twelve months. The Board of Examiners can decide to grant extension of the programme duration when a student is experiencing or has experienced a study delay due to circumstances that are beyond the student's control.

Article 4 Not applicable

Not applicable.



Paragraph 3

Content and composition of the programme

Article 5 Goal of the programme

1. The programme is intended to educate students to earn a Master of Science degree in Applied Earth Sciences (AES), Civil Engineering (CE), Environmental Engineering (ENV), Construction Management and Engineering (CME) or Transport, Infrastructure and Logistics (TIL) respectively, providing them with such a level of knowledge, insight and skills in the area of the above mentioned programmes, that graduates can fulfil positions on the labour market at the Master's level.
2. The Intended Learning Outcomes of the different programmes are outlined in the programme-specific Annexes to these Regulations.

Article 6 Track

1. The Master degree programme in [Civil Engineering](#) has the following tracks, with the stated content in the annex to this TER:
 - » Construction Materials (CM)
 - » Structural Engineering (SE)
 - » Hydraulic Engineering (HE)
 - » Hydraulic and Offshore Structures (HOS)
 - » Geotechnical Engineering (GE)
 - » Traffic and Transport Engineering (TTE)
2. The Master degree programme in [Applied Earth Sciences](#) has the following tracks, with the stated content in the annex to this TER:
 - » Applied Earth Sciences
 - » Applied Geophysics
3. The Master Degree Programme [Environmental Engineering](#) has the following tracks, with the stated content in the annex to this TER:
 - » Water Resources Engineering (WRE)
 - » Atmospheric Environmental Engineering (AEE)
 - » Resource and Waste Engineering (R&WE)
4. The Master Degree Programme [Construction Management and Engineering](#) has no tracks.
5. The Master Degree Programme [Transport, Infrastructure and Logistics](#) has no tracks.

Article 7 Composition of the programme and degree audits

1. The programme includes the Master's degree audit, with a study load of 120 credits.
2. Following approval from the two Boards of Examiners concerned, a student may take an individual double degree programme in which two Master's programmes are combined simultaneously to create a programme of at least 180 credits. Upon completion the student is awarded two Master's diplomas. The student must earn at least 60 unique credits for each Master's degree programme.
3. A course that was part of the Bachelor's degree programme that qualified a student for admission to the Master's degree programme may not be included in the Master's degree programme. If a compulsory component has already been completed in the aforementioned Bachelor's degree programme, the Board of Examiners will designate an alternative course. If an elective course of the degree programme has already been completed in the aforementioned Bachelor's degree programme, the student will select an alternative elective course.



4. The Master's degree audit is concluded with a final test or assignment. This test or assignment demonstrates that the student possesses and is able to apply the knowledge, insight and skills acquired in the degree programme.
5. The degree programme and its courses are described in the Annex, including the study load, number of contact hours and form of examination of each course, as well as the programming of the examination and the language.
6. The actual design of the educational programme is elaborated in greater detail in the [study guide](#).

Article 8 Form of the programme

The degree programmes are offered exclusively on a full-time basis.

Article 9 Language

The education is in English, and the examinations are administered in English.

Article 10 Honours Programme

1. Based on the criteria referred to in the Honours Programme, students will be selected and admitted to the [Honours Programme](#) by the Honours Programme Committee established by the Director of Studies.
2. The Honours Programme comprises at least 20 credits.
 - a. At least five credits must be completed in the institution-wide component of the Master's Honours Programme and
 - b. At least 15 credits must be completed in the faculty component of the Master's Honours Programme, the composition of which (including its content and options) is described in the Guidelines Honours Programme CEG and/or Annex.
3. All students selected for participation in the [Honours Programme](#) must submit their options for approval to the Honours Coordinator.
4. The Board of Examiners will be responsible for assessing whether all the requirements of the Honours Programme have been met.
5. Any student who has successfully completed the Honours Programme will be awarded a certificate signed by the chair of the Board of Examiners and the Rector Magnificus

Article 11 (Compulsory) participation in the programme

1. All students are expected to participate actively in the programme for which they are registered.
2. If necessary, there will be an obligation to participate in practical exercises, with a view to admission to the related examination. The [Board of Examiners](#) may grant an exemption from this obligation, with or without imposing a substitute requirement.
3. Any supplementary obligations are described by component in the course description in the [study guide](#).

Article 12 Programme evaluation

1. The Director of Studies is responsible for the evaluation of the education.
2. The manner in which the education in the programme is evaluated is documented in the faculty's Quality Assurance Manual, which is submitted to the [Faculty Student Council](#) and the [Board of Studies](#).
3. The Director of Studies informs the Board of Studies concerning the outcomes of the evaluation, the intended adjustments based on these outcomes and the effects of the actual adjustments.



Paragraph 4

Registration for courses and examinations

Article 12a **Cancelled**

Not applicable.

Article 13 **Registration for written examinations**

1. Registration to participate in a written examination, including a written examination that is taken online, remotely from the university, is compulsory and is done by entering the requested data into the education registration system (Osiris) no later than 14 calendar days before the examination. Students receive examination tickets by email as confirmation of their registration.
2. Students may submit a request to register for an examination after the deadline mentioned in subsection 1 has passed but no later than 6 calendar days before the examination in question, in Osiris by being placed on a waiting list. The request will be honoured providing that places are available in the room or rooms where the examination is scheduled to take place. The student will receive an exam ticket by email as confirmation.
3. In the event of circumstances beyond a student's control resulting in the student being unable to register for an examination, the Board of Examiners may nevertheless permit the student to participate in the examination.
4. Students who have not registered for the examination and are therefore not included on the list of examinees can report on the day of the examination to the invigilator beginning 15 minutes before the start of the examination until the actual start. They will be admitted to the examination room, in the order that they reported to the invigilator, 30 minutes after the start of the examination, if sufficient places are available. The loss of 30 minutes of examination time cannot be compensated. Students who have been granted late access to the examination will be added to the list of examinees. The student participates in the examination subject to the validation of entitlement to participate in the examination.
5. In the situation described in the previous section, if it is found that a student was not entitled to participate in the examination, the examination work will be deemed invalid, it will not be marked and it will not count towards a result. The student may subsequently submit an appeal to the Board of Examiners, accompanied by reasons, requesting that the examination work that has been deemed invalid be declared valid and to have it assessed. The Board of Examiners will approve the request only in case of extenuating circumstances.
6. Sections 2 and 4 of this article do not apply to a written examination that is taken online, remotely from the university.
7. If unforeseen circumstances or measures make it necessary to change the form or manner of taking the examination, the Board of Examiners may determine a different registration period in favour of the student.



Article 14 Registration for other examinations

1. Registration for participation in an examination other than a written examination is compulsory, and is possible up to 14 calendar days before the examination take place in the manner that is stated in the study guide for the relevant examination.
If unforeseen circumstances or measures make it necessary to change the form or manner of taking the examination, the provisions stated in the study guide apply in full unless the Dean decides to deviate from the manner or term of registration prescribed in the study guide.
2. In special cases, the Board of Examiners may deviate from the registration term stated in Section 1, but only in favour of the student.
3. Students who have not registered on time will not be allowed to participate in the examination. The Board of Examiners can nevertheless admit a student to the examination, but only in case of special circumstances.
4. In the event of unauthorised participation in an examination, the Board of Examiners may declare the result invalid.

Article 15 Withdrawal from examinations

1. Students can withdraw from an examination through the education registration system (Osiris) up to three calendar days before the examination.
2. Any student who has withdrawn from an examination should re-register on a subsequent occasion, in accordance with the provisions of Articles 13 and 14.

Paragraph 5 Examinations

Article 16 Form of the examinations and the manner of testing in general

1. Examinations (oral, written or otherwise) are taken in the manner described in the study guide. In the event of unforeseen circumstances or measures, the Board of Examiners may determine that the manner prescribed may be deviated from. If an examination is taken using online proctoring, this takes place in accordance with the TU Delft Online Proctored Examination Regulation.
2. The study guide contains a description of the moments at which and the numbers of times that examinations can be taken, along with their frequency, without prejudice to the provisions of these regulations concerning written and oral examinations, as described in Article 17.
3. A student may participate in an examination for a course no more than twice in one academic year, with the understanding that registration for an examination without timely withdrawal counts as participation.
4. In special cases, the Board of Examiners may deviate from the provisions of the above sections 1 to 3 in favour of the student.
5. Well before a written examination, the examiner will give the students the opportunity to familiarise themselves with representative sample questions and the criteria by which they will be assessed. The teacher or examiner will provide accompanying guidelines for the way in which the sample questions are answered.



Article 17 Times and number of examinations

1. Two opportunities to take written examinations will be offered each academic year. The previous provision applies equally to examinations other than written examinations, unless this cannot be reasonably demanded of the programme. The times in which the examinations can be taken are:
 - » at the end of the teaching period in which the course is taught, and
 - » in the fifth week or at the end of the next teaching period or during the summer resit period according to the TU Delft academic calendar.
2. An annual timetable is issued detailing when examinations may be taken, and it is published before the start of the relevant teaching period.
3. Contrary to the provisions in Section 1, the opportunity to take the examination for a course that is not taught in a certain academic year must be given at least once in that year.
4. Contrary to the provisions of section 1, two opportunities to sit an examination will be offered for discontinued courses in the academic year following the year in which the course was last taught.
5. In exceptional cases, the Board of Examiners may permit more than two opportunities in a year for certain examinations.

Article 18 Oral examinations

1. For oral examinations, no more than one student shall be tested at a time, unless determined otherwise by the Board of Examiners.
2. Oral examinations shall not be public, unless the Board of Examiners has decided otherwise. In deviation from this first clause, a final presentation is given publicly except in special cases in which the Board of Examiners has decided otherwise, whether or not at the request of the student.
3. The oral examination is administered by at least two examiners. In the event of unforeseen circumstances or measures, the Board of Examiners may allow the oral examination to be administered by a single examiner, provided the student consents to an audio and/or video recording with sound of the oral examination.

Article 19 Determination and announcement of results

1. The examiner determines the result of a written examination as quickly as possible but by no later than 15 working days after the examination. The results of written interim examinations shall be announced no later than five working days before the next written interim examination.
2. The examiner determines the result of an oral examination as quickly as possible but no later than 15 working days after it is administered.
3. The examiner records the results of the assessment of a practical exercise as quickly as possible, but no later than 15 working days after the completion of the practical exercise at the designated time. In the education registration system (Osiris), the result will be dated on the date of completion of the practical exercise. With regard to a series of practical exercises in which the knowledge acquired in a previous practical exercise is important to the subsequent practical exercise, the result of the previous practical exercise shall be announced before the subsequent practical exercise. If this is not possible, the examiner shall schedule a timely discussion of the previous practical exercise.
4. The examiner is responsible for the registration and publication of the results in the education registration system (Osiris), with observance of the student's privacy. When the result of an examination is announced, the student is informed about the right of perusal as stipulated in Article 20 as well as about the possibility of appealing to the Examinations Appeals Board.
5. Contrary to the previous provisions, results for examinations administered in the last regular examination period, as well as for resits from the first year of the BSc taken during the resit period, shall be determined, registered and published within five working days of the week following the week in which the examination was taken.
6. If special circumstances prevent the examiner from registering the results on time, the examiner will report this to the Board of Examiners, accompanied by reasons, and notify the students and student administration as quickly as possible.



Article 20 Right to inspect the results

1. Upon request, students will have the right to inspect their assessed work during a period of at least 20 working days after the announcement of the results of a written examination or the assessment of a practical exercise. During the inspection of the assessed work, it is not permitted to copy the underlying examination questions in any way. Students intending to appeal against the assessment of their work will be issued with a copy of the assessed work.
2. During the period mentioned in Section 1, all students who have participated in the examination can become acquainted with the questions and assignments of the relevant examination, as well as with the standards that form the basis of the assessment.
3. The examiner can determine that the inspection or cognizance intended in Sections 1 and 2 will take place at a pre-established place and at a pre-established time.
4. Students proving that they were unable to appear at such an established place and time because of circumstances outside of their control will be offered another possibility, if possible within the period mentioned in Section 1. The place and times mentioned in the first sentence will be made known in good time.

Article 21 Discussion of the results of examinations

1. Students who have taken a written examination or who have received the assessment of a practical exercise can ask the relevant examiner for a discussion of the results during a period of 20 working days after the announcement of the results. The discussion will take place within a reasonable period, at a place and time to be determined by the examiner.
2. At the request of the student or at the initiative of the examiner, a discussion justifying the assessment will take place between the examiner and the student as soon as possible after the announcement of the result of an oral examination. During the discussion of the assessed work it is not permitted to copy the underlying examination questions in any way.
3. If a collective discussion is organised by the examiner, students may submit requests as referred to in section 1 only if they have been present at the collective discussion and have motivated their requests, or if they were unable to be present at the collective discussion because of circumstances outside their control.
4. The Board of Examiners may allow deviation from the provisions in Sections 2 and 3.

Article 22 Period of validity for examinations

1. The period of validity of the results of an examination is indefinite. The Dean can restrict the period of validity of a successfully completed examination only if the knowledge or insight that was examined has become outdated or if the skills that were examined have become outdated.
2. In cases involving a limited period of validity based on the first section, the period of validity shall be extended at least by the duration of the acknowledged delay in studies, based on the TU Delft Profiling Fund Scheme.
3. In individual cases involving special circumstances, the Board of Examiners can extend periods of validity that have been limited based on the first section or further extend periods of validity that have been extended based on the second section.
4. If a course consists of interim examinations, the period of validity of the interim examination for which no credits are assigned shall be restricted to a time period stated in the study guide.

Article 23 Exemption from an examination or obligation to participate in a practical exercise

1. After having obtained recommendations from the relevant examiner, the Board of Examiners may grant exemptions to students:
 - a. who have successfully completed an examination or degree audit in a system of higher education within or outside the Netherlands that corresponds to the examination for which the exemption has been requested in terms of content and level, or



- b. who demonstrate that they possess sufficient knowledge and skills that have been acquired outside the system of higher education.
2. After having obtained recommendations from the relevant examiner, the Board of Examiners may grant exemption from the requirement to participate in a practical exercise with a view to admission to the related examination, possibly subject to alternative requirements.

Article 24a **Periods and frequency of degree audits**

In principle, the opportunity to take the Master's degree audit will be offered once each month. The dates for the meetings of the Board of Examiners shall be published before the beginning of the academic year.

Article 24b **Invalidation of examinations**

The [Board of Examiners](#) is authorised to declare invalid an examination or part thereof if a proper assessment of the knowledge, insight and skills of the student has not proved reasonably possible based on the examination or the part thereof. The Board of Examiners may draw up further rules for this.

Paragraph 6

Studying with a disability

Article 25 **Adjustments to the benefit of students with disabilities or chronic illnesses**

1. Upon a written and substantiated request to that effect, students with disabilities or chronic illnesses may be eligible for adjustments in teaching and examinations. These adjustments are coordinated to the situations of the students as much as possible, but they may not alter the quality or level of difficulty of a course or the study programme. Facilities to be provided may include modifications to the form or duration of examinations and/or practical exercises to suit individual situations or the provision of practical aids.
2. Requests as mentioned in Section 1 must be accompanied by a recent statement from a physician or psychologist or, in cases involving dyslexia, from a testing office registered with BIG, NIP or NVO. If possible, this statement should include an estimate of the extent to which the condition is impeding the student's academic progress.
3. Decisions concerning requests for adjustments relating to educational facilities are taken by the Dean or by the Director of Studies on the Dean's behalf. Decisions concerning adjustments relating to examinations are taken by the Board of Examiners or by the academic counsellor on behalf of the Board of Examiners.
4. Adjustments to examinations can involve the following or other matters:
 - » form (e.g. replacing a written test with an oral test or vice versa, testing the required material in the form of interim examinations or granting exemptions to the attendance requirement);
 - » timing (e.g. additional time for an examination, wider spreading of examinations across the examination period, granting exemptions to admission requirements or extending the period within which a component must be completed);
 - » aids permitted during testing (e.g. English-Dutch dictionaries for students with dyslexia);
 - » location (taking the examination in a separate, low-stimulus space).
5. Adjustments in educational facilities could include:
 - » providing modified furniture in teaching and examination spaces;
 - » providing special equipment (e.g. magnification or Braille equipment for students with visual impairments and blindness or loop systems and individual equipment for students with hearing impairments and deafness);
 - » providing more accessible course material;
 - » providing special computer facilities (e.g. speech-recognition or speech-synthesising software);
 - » providing a rest area.



Paragraph 7

Study support and (binding) recommendation on the continuation of studies

Article 26 Study support and Monitoring of student progress

1. The Dean is responsible for providing individual study supervision to students registered for the degree programme, partly for their orientation towards potential study options within and outside the degree programme. The Dean will also ensure that effective support and supervision is provided to students in making choices related to their studies.
2. The examination and study programme applying to each student is documented in the education registration system (Osiris).
3. The Student Administration is responsible for ensuring that all students are able to review and check their results in the education registration system (Osiris).

Article 27 Not applicable

Not applicable.

Paragraph 8

Final provisions

Article 28 Conflicts with the regulations

In the case of conflict between provisions in the study guide or other document concerning the relevant teaching and examination education and study programme and these regulations, the provisions of these regulations shall take precedence.

Article 29 Amendments to the regulations

1. Amendments to these regulations are adopted separately by the Dean.
2. Amendments that are applicable to the current academic year will be made only if they would not reasonably damage the interests of students.
3. Amendments to these regulations may not lead to disadvantageous changes to any decisions that have been made with regard to individual students.
4. In the event of unforeseen circumstances or measures, the Dean may decide to deviate from these regulations, including the actual form of the education and any compulsory attendance requirements. This also means that the provisions in the study guide may be deviated from.



Article 30 Transitional regulations

1. If the composition of the degree programme undergoes substantive changes, transitional measures will be established and published through the Dean. Transitional measures can be found in the programme-specific Annexes to the TER.
2. These transitional measures shall include at least the following:
 - a. an arrangement regarding exemptions that may be obtained based on examinations that have already been passed;
 - b. the period during which the transitional arrangement shall be valid.
3. Students shall follow the degree programme as it applied or applies during the first academic year of their enrolment, unless components of the programme are no longer offered. In such cases, students must transfer according to the applicable transitional measures. Deviations require the approval of the Board of Examiners. Before submitting a request to this end, the student must have first obtained recommendations from an academic counsellor.
4. If a course within a degree programme is cancelled, four additional opportunities for taking the examination in this course shall be offered after it has been taught for the last time: the examination at the end of the teaching of the course, a resit in the same academic year and two resits in the following academic year.

Article 31 Announcement

1. The Dean is responsible for ensuring a suitable announcement of these regulations and any amendments to them.
2. In any case, the Teaching and Examination Regulations are to be posted on the programme's website.

Article 32 Entry into force

These regulations shall enter into force on **1 September 2022**.

Adopted by the Dean of the faculty on 30 June 2023.



Appendix & Addendum TER MSc

APPENDIX to Article 2 - relevant websites

Student portal with links to relevant regulations, e.g.

- Student Charter,
- privacy statement online proctoring,
- Code of Ethics,
- Online Proctored Examination Regulation etc.

» <https://www.tudelft.nl/en/student>

Rules & Regulations of the Board of Examiners

» <https://www.tudelft.nl/studenten/faculteiten/citg-studentenportal/onderwijs/onderwijsinformatie/educational-rules-and-regulations/>

Board of Examiners general website

» <https://www.tudelft.nl/studenten/faculteiten/citg-studentenportal/organisatie/board-of-examiners-ceg/>

Wet op het hoger onderwijs en wetenschappelijk onderzoek (WHW)

» <https://wetten.overheid.nl/BWBR0005682/2019-02-01>

Examination Appeals Board

» <https://www.tudelft.nl/en/student/legal-position/central-complaints-desk-for-students/objections-and-appeals>

Studying with a disability

» <https://www.tudelft.nl/en/student/counselling/studying-with-a-disability>



APPENDIX to Article 3 TER (for Master's degree programmes)

Language level Dutch-language bridging programmes for individuals holding another Bachelor's degree university education (b) or a higher professional education degree (c).

The Dutch language:

By successfully passing a Dutch examination at the following level:

- GCE A Level
- Algemeen Secundair Onderwijs (ASO)
- European Baccalaureate (EB)
- Suriname VWO
- International baccalaureate (IB)
- Baccalaureate Series S

By successfully completing:

- The complete Dutch course from the TU Delft Centre for Languages and Academic Skills; or
- The NT2-II certificate and the professional language course of the TU Delft Centre for Languages and Academic Skills.

Language level for individuals holding a higher professional education degree (c)

The following candidates are exempted from the English language test requirement:

- Students with a Bachelor's degree from a Dutch university
- Students with a VWO diploma or VWO English certificate
- Students with an HBO (University of Applied Sciences) degree from a degree programme taught entirely in English
- Students who hold the nationality of one of the following countries: USA, UK, Ireland, Australia, New Zealand or Canada

Sufficient competence in the English language can be demonstrated by passing one of the following tests:

- TOEFL iBT (Test of English as a Foreign Language internet-Based Test) with an overall band score of at least 90
- IELTS (academic version) with an overall band score of at least 6.5
- Cambridge Assessment English:
 - » C1 Advanced (Certificate of Advanced English) with an overall score of at least 176.
 - » C2 Proficiency (Certificate of Proficiency in English) with an overall score of at least 180.

If a bridging programme needs to be completed before a candidate can be admitted to a Master's programme, the certificate should be obtained before the start of the bridging programme.

Language level for holders of a non-Dutch diploma (d)

Competence in the English language as demonstrated by passing one of the following tests:

- TOEFL iBT (Test of English as a Foreign Language internet-Based Test) with an overall band score of at least 100 and a minimum score of 22 for each section
- IELTS (academic version) with an overall band score of at least 7,0 and a minimum score of 6,5 for each section
- Cambridge Assessment English:
 - » C1 Advanced (Certificate of Advanced English) with an overall score of 185 and a minimum score of 169 for each section.
 - » C2 Proficiency (Certificate of Proficiency in English) with an overall score of 180 and a minimum score of 169 for each section.

Certificates more than two years old will not be accepted.

The following candidates are exempted from the English language test requirement:

- Students who hold the nationality of one of the following countries: USA, UK, Ireland, Australia, New Zealand or Canada;
- Students who hold a Bachelor's degree from one of the above countries.



Addendum to Article 3a TER

1. For Bachelor and Pre-Master students who were enrolled in a relevant Bachelor programme at a Dutch higher education institution or in a Pre-Master programme to a Master programme at CEG or an interfaculty programme in the academic year 2021-2022, the following principles apply for the transition to a Master programme of the CEG faculty or interfaculty programme:
 - a. For Bachelor students:
 - » Bachelor students may enrol in Master courses and take exams in the academic year 2022-2023 if on 31 August they have a deficit in their BSc programme of no more than 10 EC and have successfully completed their Bachelor thesis.
 - » The option to enrol in Master courses and take exams without having completed a Bachelor programme will expire on 31 August 2023.
 - b. For Pre-Master students:
 - » Pre-Master students may enrol in Master courses and take exams in the academic year 2022-2023 if on 31 August 2022 they have a deficit in their Pre-Master programme of no more than 10 EC.
 - » The option to enrol in Master courses and take exams without having completed the Pre-Master programme will expire on 31 August 2023.
2. Students can only have an enrolment under these transition rules in a Master programme once and for a maximum duration of one year. Stacking two enrolments under these transition rules is therefore not possible.
3. Results achieved in the academic year 2022-2023 in one of the Master programmes of the faculty of Civil Engineering and Geosciences will be added to the MSc examination programme as soon as there is a valid enrolment for the relevant MSc programme.





ANNEX

INTERFACULTY MASTER DEGREE PROGRAMME
TRANSPORT, INFRASTRUCTURE & LOGISTICS

2022
2023

Paragraph 1

Compiling the study programme

Article 1 The study load

The study load for the master's degree programme is [120 credits](#).

Article 2 Intended learning outcomes

1. The student is able to **model, comprehend and analyse** the interconnectedness of TIL systems.
2. The student is able to **relate perspectives to one another, synthesise knowledge from different domains and perspectives**, and is able to **apply such knowledge and engineering skills** to challenges in the TIL domain.
3. The student is able to **understand and analyse TIL problems, design a potential solution and evaluate a proposed design solution**. The student will also be able to provide practical guidance for the implementation of the design in practice.
4. The student is able to **value and challenge existing knowledge with a critical attitude** and **apply the relevant knowledge** together with analytical and engineering skills and design creativity.
5. The student is able to understand the possible ethical, social, environmental, aesthetic and economic implications of their work and have the insight to **act and make judgements** accordingly.
6. The student is able to **collaborate effectively** in multidisciplinary teams in the TIL field on interdisciplinary problems, and **work in a team** of diverse talents, skills and characters, language, and cooperation styles.
7. The student is able to **function in developing and emerging professional environments** and to **maintain, evaluate and update their competence through lifelong learning**.
8. The student is able to **use written and oral communication skills** that effectively reflect **scientific findings, analytical thinking and evidence-based reasoning** with researchers, engineers, and specialists from adjacent disciplines.
9. The student is able to develop scientific knowledge and insight to **formulate a research/design question, perform a literature and research study, and develop models to evaluate and apply innovative TIL systems**.

Article 3 The composition

1. The examination programme of [120 credits](#) comprises the following components:
 - Courses, 75 credits**
 - a. Fundamentals, 28 credits as laid down in [Article 6](#).
 - b. Specialisations, between 26 and 28 (depending on the chosen specialization) credits as laid down in [Articles 7](#), [Articles 8](#), [Articles 9](#) and [Article 10](#).
 - c. Electives, between 19 & 21 (depending on the chosen specialization) credits as laid down in [Article 11](#).
 - Projects and thesis, 45 credits**
 - d. Projects, 15 credits as laid down in [Article 12](#).
 - e. Thesis, 30 credits as laid down in [Article 13](#).
2. The student may be eligible for a special programme of 20 credits on top of the master's degree programme: Honours Programme Master, an individual programme as laid down in [Article 14](#).
3. As soon as possible, but at the latest before starting with the thesis as stipulated in [Article 13](#), the student must draw up his entire examination program and present it to the Board of Examiners for approval.



Article 4 Specialisations

1. The examination programme includes one specialisation, amounting between 26 to 28 credits in total. The student chooses one out of four specialisations available in the degree programme. The specialisations are specified in Section 2.
2. The degree programme comprises four specialisations. Within a specialisation all courses are compulsory. These specialisations are:
 - » [Specialisation TG](#) – Transport Governance, as laid down in [Article 7](#).
 - » [Specialisation TO](#) – Traffic Operations, as laid down in [Article 8](#).
 - » [Specialisation TN](#) – Transport Networks, as laid down in [Article 9](#).
 - » [Specialisation LS](#) – Logistics Systems, as laid down in [Article 10](#).

Article 5 Registration of Study Programme

1. All students must submit an [Individual Study Plan \(ISP\)](#) before the end of their second quarter. The individual study plan provides an overview of the full MSc programme the student intends to follow and is worth a minimum total of [120 credits](#), including Fundamentals, Specialisation courses and electives.
2. All students of cohort 2022-2023 and later must submit their Individual Study Plan (ISP) using [My Study Planning \(MSP\)](#).
3. All submitted Individual Study Plans are assessed by the MSc coordinator on behalf of, and in consultation with, the [Board of Examiners](#). Approval of the Individual Study Plan is granted when, in judgement of the Board of examiners, it is plausible that the proposed programme leads to the achievement of the learning objectives of the programme as formulated in article 4 of the Teaching and Examination Regulations.
4. During the course of the study programme, students may request changing electives in their ISP through My Study Planning. Any request will be assessed for approval by the MSc coordinator.
5. If an ISP is not approved, the student must adapt the ISP based on the directions given in the evaluation and resubmit. Once approved, the individual study plan is registered in Osiris and used to monitor the students' progress, as well as to check whether the student has fulfilled all components to graduate.

Paragraph 2

Fundamentals & Specialisations

Article 6 Fundamentals

1. The examination programme includes a set of basic compulsory courses, the so-called fundamentals, amounting to [28 credits](#) in total.
2. The compulsory courses mentioned in Section 1 are:

code	course	ECs
CIEQ6002	Transport Modelling	5
ME44206	Quantitative Methods for Logistics	5
SEN1221	Statistical Analysis of Choice Behaviour	5
ME44312	Machine learning for Transport and Multi-Machine Systems	3
TIL6022	TIL Python Programming	3
TIL4030-20	TIL Research and Design Methods	7



Article 7 Specialisation Transport Governance (TG)

1. In this specialisation all courses are compulsory. The composition of this specialisation is as given below.

code	course	ECs
WM1301TU	Ethics of Transportation	3
SEN1721	Travel behaviour research	5
CIEQ6212	Urban Regions, Transport and Economics	4
AR0168	People, Movement and Public Space	5
SEN171a	Advanced Evaluation Methods for Transport Policy Decision-Making	5
TPM032a	Multi criteria decision analysis	5

Article 8 Specialisation Traffic Operations (TO)

1. In this specialisation all courses are compulsory. The composition of this specialisation is as given below.

code	course	ECs
CIEQ6003	Traffic Flow Modelling and Control Part 1	5
CIEQ6223	Intelligent Vehicles for Safe and Efficient Traffic: Design and Assessment	4
ME44305	System Analysis and Simulation	5
ME44200	Operations and Maintenance	3
SEN9110	Simulation Masterclass	5
AE4423-20	Airline Planning and Optimization	4

Article 9 Specialisation Transport Networks (TN)

1. In this specialisation all courses are compulsory. The composition of this specialisation is as given below.

code	course	ECs
CIEQ6233	Railway Operations and Control	5
CIEQ6232	Public Transport Demand and Network Planning and Operations	5
CIEQ6212	Urban Regions, Transport and Economics	4
CIEM6301	Railway traffic management	5
AE4423-20	Airline planning optimisation	4
SEN1721	Travel Behaviour Research	5

Article 10 Specialisation Specialisation Logistics Systems (LS)

1. In this specialisation all courses are compulsory. The composition of this specialisation is as given below.

code	course	ECs
ME44311	Advanced Operations and Production Management	5
ME44300	Multi-Machine Coordination for Logistics	3
ME44101	Dynamics and Interaction of Material and Equipment	4
SEN9720	Logistics and Supply Chain Innovations	5
TPM028a	Multimodal decision making	5
CIEQ6213	Analysis and Modelling of Freight and Logistics Systems	4



Article 11 Free electives

1. The examination programme includes free elective courses whose amount varies between 19 and 21 credits, based on the chosen specialization. The student can choose elective courses from a list of electives available in the degree programme. The elective list is specified in Section 2. Choices outside this list requires approval from the Board of Examiners after consultation with and approval by the program coordinator.

2. Electives list

An amount of at least 19 credits for specialization TN, 20 credits for specializations TO and TG, and 21 credits for the specialization LS, should be selected from the list below. Choices outside this list must be approved by the BoE.

Electives: Transport and Logistics (T&L)		
code	course	EC
SEN115b	Law and institutions	5
SEN171a	Advanced evaluation methods for transport policy decision-making	5
SEN1721	Travel behaviour research	5
SEN1741	Innovations in transport and logistics	5
SEN9110	Simulation master class	5
SEN9720	Logistics and supply chain innovations	5
SEN9725	Supply chain gaming	5
TPM004a	Transport safety	4
TPM023a	Cost-benefit analysis: theory and application	4
TPM028a	Decision making in multimodal transport systems	5
TPM032a	Multi-criteria decision analysis	5

Electives: Multi Machine Engineering (MME)		
code	course	EC
ME44101	Dynamics and Interaction of Material and Equipment	4
ME44106	Structural design with FEM	4
ME44110	Integration project large-scale equipment	5
ME44115	Discrete element method (DEM) simulation	4
ME44125	Reliability and maintenance of transport equipment	3
ME44200	Operations and maintenance	3
ME44210	Drive and energy systems	3
ME44300	Multi-machine coordination for logistics	3
ME44305	System analysis and simulation	5
ME44311	Advanced operations and production management	5

Electives: Control and Operations (C&O)		
code	course	EC
AE4321-15	Air traffic management	4
AE4423-20	Airline planning & optimisation	4
AE4446 A	Airport operations	4

Electives: Traffic & Transport Engineering (TTE)		
code	course	EC
CIEQ6003	Traffic Flow Modelling and Control Part 1	5
CIEQ6211	Advanced Transport Modelling	3
CIEQ6212	Urban Regions, Transport and Economics	4
CIEQ6213	Analysis and Modelling of Freight and Logistics Systems	4
CIEQ6221	Active modes: traffic and transport	5
CIEQ6222	Traffic safety	4
CIEQ6223	Intelligent Vehicles for Safe and Efficient Traffic: Design and Assessment	4
CIEQ6224	Traffic Flow Modelling and Control Part 2	3
CIEQ6231	Public Transport System and Supply Planning and Operations	5
CIEQ6232	Public Transport Demand and Network Planning and Operations	5
CIEQ6233	Railway operations and control	5
CIEM6301	Railway traffic management	5
CIEM6303	Transitions, sustainability & Innovation	4

Electives: Urbanism (U)		
code	course	EC
AR0168	People, movement and public space	5
AR0228	Infrastructure and environment method module	5
AR3CS021	Seminar cross domain city of the future	5
AR8003TU	Legal and governance	5

Electives: Other TIL fields		
code	course	EC
TIL6020	TIL scientific assignment	7
CME2300	Financial engineering	4
RO47016	Automotive human factors	5
ME41106	Intelligent vehicles 3mE	5
MT44070	Shipping management	5
WI4062TU	Transport, routing and scheduling	3
WM1301TU	Ethics of transportation	3

3. As free elective courses, the student can also choose the following courses, subject to approval from the BoE:
 - » all courses offered at master level at Delft University of technology
 - » all courses offered at master level at another Dutch university
4. As free elective courses the student admitted on the basis of [TER Article 3a](#), Section 1, under d must choose:
 - » convergence courses mentioned in [Article 16](#).



5. As free elective courses the student may not choose:

- » course from the list as given below:

code	course	EC
AE4441-16	Operations optimisation	4
AR0167	Architecture and urban design	15
AR0227	Infrastructure and environment design	10
AR1U131	Sustainable urban engineering of territory	5
CIEQ6112	Transport engineering and optimisation	4
CIEAESM4010	Research project	10
EPA2934	Preparation master thesis	5
ME54015	ME-MME research assignment	15
MOT2004	Preparation for master thesis	5
SEN173a	Analysis and design of freight and logistic systems	5
SEN2321	Master thesis preparation	5
WI4051TU	Introduction to operation research	6

- » all courses that have significant overlap with any other course in the examination programme
- » courses offered by TU Delft Graduate School
- » courses offered by TRAIL Research School
- » courses focusing on the development of skills
- » language courses
- » massive open online courses (MOOCs).

6. If the student notwithstanding the forgoing mentioned under 5 chooses:

- » courses focussing on the development of skills
- » language courses
- » massive open online courses (MOOCs),

these choices will be considered within the examination programme as extra-curricular.

Article 12 TIL Projects

1. The examination programme includes a set of compulsory projects, amounting to **15 credits** in total.

2. The compulsory projects mentioned in Section 1 are:

code	course	ECs
TIL4020-20	TIL research project	5
TIL5050-20	TIL design project	10

3. The student is allowed to start the projects mentioned in Section 2 only, once he has successfully completed the course as given below:

code	course	ECs
TIL4030-20	TIL research and design methods	7

4. The student is allowed to continue and thus complete the second project mentioned in Section 2 only, once he has successfully completed courses amounting to a total of at least **50 credits** at the first day of the fifth week of the educational period in which the project starts.



Article 13 Thesis

1. The final course included in the examination programme is a master thesis:

code	course	ECs
TIL5060	TIL thesis	30

2. Students may embark on the Master Thesis Project only when they have no more than 10 EC of uncompleted credits of the Master's degree programme as submitted according to [Article 5](#).
3. If the student does not meet the criteria as indicated in Section 1, the Director of Studies may in exceptional cases give access to the project mentioned in Section 1.
4. The content of the thesis has a relationship to the fields of at least two of the faculties that offer the interfaculty programme: the faculty of Civil Engineering and Geosciences, the faculty of Technology, Policy and Management and the faculty of Mechanical, Maritime and Materials Engineering. This is reflected in the composition of the assessment committee for the thesis project.
5. For supervision and assessment of the master thesis an assessment committee will be established. The regulations for the composition of the assessment committee can be found in article 23 of the Rules and Guidelines Board of Examiners.
6. Before embarking on the thesis project the student must present two members (chair and supervisor) of the assessment committee for approval to the Board of Examiners.
7. Any changes made to the composition of the approved assessment committee should be presented to the Board of Examiners
8. The project is subject to a strict planning and timetable; specific dates and deadlines need to be set for the kick off, midterm and green light evaluations as well as for the final assessment and presentation of the project.
9. The graduation work consists of a thesis project, a thesis report, a thesis presentation and a thesis defence. The thesis report includes a scientific paper and a reflection. Detailed information will be published in the digital learning environment.
10. Before a presentation date can be agreed, the student must have completed all the other examination programme obligations, and should have received a positive result (green light) based on the presentation of a complete report to the supervisors in the so-called green light meeting.
11. The chair of the assessment committee makes sure that the independent examiner (article 23 Rules & Guidelines Board of Examiners) is added and participates only in the final assessment of the thesis project at the presentation date defined in section 9.
12. The assessment committee motivates the outcome of the assessment.



Paragraph 3

Honours Programme

Article 14 Master's Honours Programme

1. Motivated students who have completed all courses of the first quarter during the first quarter and have obtained an average grade of at least 7.5 for these courses, are invited by email to apply for participation in the Honours Programme Master CEG as described in the [Teaching and Examination Regulations \(TER\) MSc, article 10](#).
2. Students who fulfil the requirements as described in the [Honours Programme Guidelines](#) and are interested in the Honours Programme can send their application to the HPM coordinator together with an motivation letter in English, and a proposal and planning for their personal programme. The proposal students submit should show coherence within a specific theme. The requirements for designing the programme are described in the Honours Programme Guidelines. The programme has to be approved by the Honours Programme Committee.
3. The programme proposal that the student has submitted to the Honours coordinator is considered for approval by the Honours Programme Committee, established by the Director of Education. For more information about application please check the [Honours Programme Guidelines](#).
4. The Honours Programme Master has to be completed during the student's master degree programme. None of the results may be lower than 6.0.
5. The assessment of the various components of the programme is carried out by the examiner concerned, who must be a TU Delft academic staff member. In special cases, a deviation from this requirement is permitted ([Art. 5.3 Rules & Guidelines of the Board of Examiners](#)).
6. Students of the interfaculty MSc Transport, Infrastructure and Logistics (TIL) programmes who are admitted to the Honours Programme master may also complete the 15 credits of the faculty organised component with assignments and courses offered by another faculty, with a supervisor from that faculty.



Paragraph 3

Bridging and other deficiency programmes

Article 15 Bridging programme for students with a Dutch HBO bachelor's degree

1. Students with a relevant Dutch higher vocational institute bachelor's degree have to complete a bridging pre-master programme before they will be admitted to the master's degree programme.
2. The bridging programme as referred to Section 1, comprises the following deficiency courses amounting to 30 credits in total:

code	course	EC
CTB1420-17	Transport & planning	5
IFEEMCS010400	Lineaire algebra	5
IFEEMCS010500	Kansrekening en statistiek	3
IFEEMCS012100	Calculus for engineering, deel 1	3
IFEEMCS012200	Calculus for engineering, deel 2	3
IFEEMCS012300	Calculus for engineering, deel 3	3
TB111c	Problemanalyse	5
WI1909TH	Differentiaalvergelijkingen	3

Article 16 Convergence programme for students with a Dutch university bachelor's degree

1. Students with a relevant bachelor of science degree of a Dutch university that does not give direct admission to the master's degree programme may be eligible for a special deficiency programme of convergence courses. Degrees qualifying for the deficiency programme are mentioned in the Teaching and Examination Regulations in Article 3a, Section 1, under d.
2. Students admitted to the deficiency programme mentioned Section 1 must include convergence courses in their master's degree programme, amounting to 9 credits in total.
 - » The student is required to select one course from each of the three lists as given below:

Analyse, 1 course

code	course	ECs
CTB1001-16 Toets 1	Analyse toets 1	3
IFEEMCS012100	Calculus for engineering, deel 1	3
WBMT1050 Toets 1	Wiskunde 1	3

Lineaire algebra, 1 course

code	course	ECs
CTB1002 Toets 1	Lineaire algebra toets 1	3
WBMT1051 Toets 1	Wiskunde 2, lineaire algebra 1 – deeltentamen	3
WI807TH-21	Linear algebra	3

Kansrekening en statistiek, 1 course

code	course	ECs
CTB2200	Kansrekening en statistiek	3
IFEEMCS010500	Kansrekening en statistiek	3
WBMT2049 Toets 1	Wiskunde 4 , kansrekening en statistiek – deeltentamen	3



3. The convergence courses as mentioned Section 2 can be obtained within the examination programme of **120 credits** if the student includes them within the free elective courses, mentioned in Article 11.
4. Students admitted to the deficiency programme mentioned in Section 1 have to comply with additional admission rules. These rules are given below.
 - a. The student must have successfully completed his chosen courses 'Analyse' and 'Lineaire algebra', as mentioned in Section 2, before he/she gets permission to take:

code	course	ECs
CIEQ6002	Transport Modelling	5

- b. The student must have successfully completed his chosen course 'Kansrekening en statistiek', as mentioned in Section 2, before he gets permission to take:

code	course	ECs
SEN1221	Statistical analysis of choice behaviour	5

5. The student may request the Board of Examiners to be exempted from the obligation to include in his examination programme a course mentioned in Section 4 when he has successfully completed an equivalent course in his Bachelor's degree programme.

Paragraph 5

Deviate from examination programme

Article 17 The free study programme

1. Students are free to compile examination programmes that are rounded off with a final degree audit. Such a programme needs prior approval by the Board of Examiners and must consist entirely or mainly of courses given in conjunction with the degree programme but it can be complemented with other courses.
2. The preliminary approval referred to Section 1 must be presented to the Board of Examiners by the student in the form of a justified request.
3. Unless otherwise specified by the corresponding course description in the study guide, the following rules apply with respect to improving an unsatisfactory result for a project or practical:
 - a. If the result of a practical exercise is less than satisfactory, i.e. if the practical exercise is assessed with a grade 5.5 or lower (rounded off to halves), the grade for the practical exercise may be improved during the next teaching period, through one of the following options depending on the grade obtained:
 - » Grade 5.0 or higher: The student may submit an addendum to the original submission;
 - » Grade lower than 5.0: The student must redo the practical exercise completely, i.e. based on a new case or a new set of input parameters.
 - b. The maximum grade that can be obtained by improving an unsatisfactory result for a project or a practical is a grade 6.0.

Article 18 Deviate from the examination programme

The Board of Examiners may allow students to deviate from the examination programme.



Paragraph 6

Transitional rules

Article 19 Transitional rules as of 1 September 2021

1. A number of courses belonging to the programme 2021-2022 are no longer available in their original form from the academic year 2022-2023.
2. Courses from the programme 2021-2022 or earlier programmes that were available in the academic year 2021-2022, that are no longer available in the academic year 2022-2023 and that are replaced by other courses are:

Course available in academic year 2021-2022			Replacement course in programme 2022-2023		
code	course ¹	EC	code	course	EC
CIE4801-18	Transport modelling	6	CIEQ6002	Transport Modelling	5
CIE4825	Traffic flow modelling and control part 1	6	CIEQ6003	Traffic Flow Modelling and Control Part 1	6
CIE4845	Emerging topics for transport & planning	4	CIE6303 ²	Transitions, Sustainability & Innovation	4
CIE5802-18	Advanced transport modelling	4	CIEQ6211	Advanced Transport Modelling	3
CIE5810-19	Traffic safety	4	CIEQ6222	Traffic safety	4
CIE5816	Urban regions, transport and economics	4	CIEQ6212	Urban Regions, Transport and Economics	4
CIE5817	Assessment of transport infrastructure and systems	4	SEN171A	Advanced Evaluation Methods for Transport Policy Decision-making	5
CIE5821	Traffic flow modelling and control part 2	4	CIEQ6224	Traffic Flow Modelling and Control Part 2	5
CIE5822	Active Modes: Traffic and Transport	4	CIEQ6221	Active Modes: Traffic and Transport	5
CIE5826	Railway Operations and Control	4	CIEQ6233	Railway Operations and Control	5
CIE5830	Freight transportation systems: analysis and modelling	5	CIEQ6213	Analysis and Modelling of Freight and Logistics Systems	4
TB111b	Problemanalyse	5	TB111c	Problemanalyse	5
TIL6010	TIL programming	2	TIL6022	TIL Python Programming	3

3. Courses from the programme 2021-2022 that are recoded only, are:

Course available in academic year 2021-2022			Replacement course in programme 2022-2023		
code	course	EC	code	course	EC
CIE5805-18	Intelligent Vehicles for Safe and Efficient Traffic: Design and Assessment	4	CIEQ6223	Intelligent Vehicles for Safe and Efficient Traffic: Design and Assessment	4



1. Two resits in 2022-2023 for discontinued courses

2. Only accessible from 2023-2024

4. Courses from earlier programs that have no replacement in 2022/2023¹

code	course	EC
CIE4831-18	Empirical analysis for transport and planning	6
CIE5815	Resilient transport systems	4
CIE5825	Advanced public transport modelling and operations	4
CIE5803-18	Railway traffic management	4

Paragraph 7

Final provision

Article 20 When the rules do not provide

Insofar as these rules do not provide for specific circumstances, the Board of Examiners will make a decision that is in line with the annex to every extent possible.



¹. These courses may be proposed in 2023-2024

