

# EDUCATION AND EXAMINATION REGULATIONS

GENERAL SECTION & PROGRAMME SPECIFIC APPENDIX

BACHELOR'S PROGRAMME CIVIL ENGINEERING  
2022-2023

This document contains rules and regulations for the Civil Engineering (CE) Bachelor's programme of the Faculty of Engineering Technology of the University of Twente (referred to as B-CE, CROHO number 56952). It contains a description of the rights and obligations of the students on the one hand and the University of Twente on the other. The rules and regulations for the CE programme are laid down in:

- The institutional section of the student charter, which contains the rights and obligations that apply to all UT students. The institutional section can be found at: [www.utwente.nl/en/ces/sacc/regulations/charter](http://www.utwente.nl/en/ces/sacc/regulations/charter).
- This programme-specific part, called the Education and Examination Regulations (EER). These regulations consist of:
  - General section of the programme part of the student charter, including the education and examination regulations (EER) for the Bachelor's programme Civil Engineering
  - The programme-specific appendix Bachelor's programme Civil Engineering

Note that whenever the male gender is used in these documents, this can be understood as referring to the other genders as well.

Rights can be derived from the Civil Engineering student charter by both the Engineering Technology Faculty (ET) and students enrolled in the Civil Engineering bachelor's programme. This is not the case concerning all other written and electronic publications such as:

- Information on the website of the Civil Engineering programme: [www.utwente.nl/en/ce/](http://www.utwente.nl/en/ce/)
- UT education catalogue: [Osiris.utwente.nl](http://Osiris.utwente.nl)
- Brochures and/or manuals

The CE EER is published on the website of the programme. A printed version will be made available upon request (free of charge).

In situations not covered by the CE EER, a decision will be made by the Dean of the Faculty of Engineering Technology or by the Examination Board of the Civil Engineering programme, depending on the responsibilities defined by law. The same applies in the event of (alleged) ambiguity, inconsistencies, differences in interpretation and/or (apparently) conflicting texts. The Dean or the Examination Board will inform the involved examiner(s) and/or the student(s) of the decision.

In cases in which strict application of the CE EER would cause clearly unintended or unreasonable situations, the Examination Board, the Dean or the Programme Director can deviate from the regulations, provided that this does not incur any negative effects for the student. This decision must be motivated in writing and must be communicated to the student, the Examination Board, the Dean, the Programme Director and the Educational Affairs Office (BOZ).

Reference: Enschede, 13-07-2022

Prof.dr.ir. H.F.J.M. Koopman  
Dean of the Faculty of Engineering Technology

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## SECTION A1 GENERAL PROVISIONS

### ARTICLE A1.1 APPLICABILITY OF THESE REGULATIONS

1. This general section of the education and examination regulations applies to all students enrolled in the bachelor's programme Civil Engineering.
2. Students attending courses that are not part of the student's core programme (see Article 1.2) are subject to the assessment rules laid down in the assessment schedule of the relevant study unit. The decision on special facilities in accordance with Article 5.2 may only be taken by the examination board of the programme for which the student is enrolled.
3. Each programme has its own programme-specific appendix.
4. For each programme, this general section and the programme-specific appendix together form the education and examination regulations for the bachelor's programme concerned.
5. The general section and the programme-specific appendix of the education and examination regulations are determined by the faculty board.
6. The institute section of the student charter ([www.utwente.nl/nl/ces/sacc/regelingen/statuut2021.pdf](http://www.utwente.nl/nl/ces/sacc/regelingen/statuut2021.pdf)) includes a definition of what the University of Twente considers to be academic misconduct (fraud). The rules and regulations of the examination board for the bachelor's programme in question include additional rules about academic misconduct (fraud), such as which measures the examination board may take if it establishes misconduct (fraud).
7. The rules and regulations of the examination board of the bachelor's programme in question include provisions about the rules of order during tests and rules in case of emergencies.
8. The following applies in respect of the language used in the education and examination regulations and the rules and regulations of the examination board:
  - a. In case of uncertainty or discrepancy, the Dutch version of this general section is binding.
  - b. English versions of the programme-specific appendix of the education and examination regulations and the examination board's rules and regulations should be available for English-taught bachelor's programmes.
  - c. Where the programme-specific appendix of the EER and the rules and regulations of the examination board of the bachelor's programme concerned are available in both Dutch and English, each version must, for the sake of clarity, state which version is binding.
9. Requests for exemptions in respect of provisions laid down in the education and examination regulations should be submitted to the examination board or the programme director of the student's own bachelor's programme, as laid down in the relevant articles of these Regulations.

### ARTICLE A1.2 DEFINITIONS

The terms used in these Regulations should be interpreted as follows:

Academic year:	The period beginning on 1 September and ending on 31 August of the following year.
Assessment schedule:	A schedule indicating how the testing of a module is organised. At first, it states the grading of the study units of the module, and secondly, the conditions for passing the entire module (including possible compensation rules within the module and compensation rules for study units or parts of study units of different modules).
BOZ-CE:	Educational Affairs Office
BSA:	(Binding) recommendation on continuation of studies (Bindend studieadvies, BSA). A recommendation on continuation of studies as referred to in Article 7.8b, paragraph 1 and 2 WHW involving expulsion from the programme in accordance with Article 7.8b, paragraph 3 WHW, issued by the programme director on behalf of the institutional administration.
Canvas:	University of Twente's digital learning environment.

CE:	Civil Engineering department and Bachelor's programme of the Faculty of Engineering Technology.
Core programme:	The same study units from the curriculum that apply to all the students following a programme.
Compulsory Holiday:	Required day off
Curriculum:	The aggregate of required and elective study units constituting a degree programme as laid down in the programme-specific appendix.
Degree programme:	Bachelor's degree programme as referred to in the programme-specific appendix to these education and examination regulations.
European Credit (EC):	a unit of 28 study workload hours, in accordance with the European Credit Transfer System. A full-time academic year consists of 60 credits, equal to 1680 hours of study (Article 7.4 WHW).
Examination:	An evaluation, performed to conclude a study unit, of the student's knowledge, understanding and skills as well as an assessment of the outcomes of that evaluation (Article 7.10 WHW); an examination may consist of a number of tests.
Examination Board:	The body that objectively and professionally assesses whether a student meets the conditions laid down in the education and examination regulations regarding the knowledge, understanding and skills required to obtain a degree (Article 7.12 WHW).
Examiner:	The individual appointed by the examination board to administer examinations and tests and to determine the results, in accordance with Article 7.12 paragraph c WHW.
Exemption:	The decision of the examination board that the student has knowledge and skills which are comparable in terms of content, scope and level with one or more study units or components of study units. An exemption is granted on the basis of acquired competencies, i.e. previously passed examinations in higher education or in view of knowledge and skills attained outside higher education.
Faculty:	The Faculty of Engineering Technology of the University of Twente
Faculty Board:	Head of the faculty (Article 9.12, paragraph 2 WHW).
Final examination:	A degree programme is concluded with a final examination. If the study units in the degree programme have been completed successfully, then the final examination will be deemed to have been completed (Article 7.10 WHW).
Higher Education and Research Act (abbreviated to 'WHW'):	The Higher Education and Research Act, Bulletin of Acts and Decrees 1992, 593, and its subsequent amendments.
Honours Programme:	Institution-wide bachelor's Honours programme.
Institution:	University of Twente (Universiteit Twente).
Institutional administration:	The Executive Board of the University of Twente (Article 1.1 WHW).
Minor profile:	Elective space conferring 30 credits that the student can also fill with offer outside the programme.
Module:	A total of 15 credits of one or more study units, in which the student's programme-specific knowledge, skills and attitude are developed and assessed as far as possible in an integrated and/or coherent manner.
Module Coordinator:	The individual charged by the Programme Director with organising the module.
Module Examiner:	In case the module consists of one study unit, the individual designated by the Examination Board to determine the result of the module.
Osiris:	System designated by the institutional administration for registration and for providing information on all relevant data related to the students and the degree programme, as referred to in the WHW.
Panel discussion:	Panel discussions are held after each module of every academic year (B1, B2) with students who participated in the programme in that module.

PCC (CPO):	Personal Circumstances Committee. A committee formed by the institutional administration that issues advice to the programme director in individual cases concerning the validity, term and seriousness of the personal circumstances of the student involved.
Practical exercise:	A practical exercise as referred to in Article 7.13, paragraph 2d WHW is a study unit or a study unit component emphasising an activity that the student engages in, as described in the programme-specific appendix.
Programme:	The Bachelor's programme Civil Engineering
Programme Committee (OLC):	Committee referred to in Article 9.18 WHW.
Programme Director:	The person appointed by the faculty board to administer the programme (Article 9.17 WHW).
Student:	Anyone enrolled in a programme in accordance with Article 7.34 and 7.37 WHW.
Study advisor:	Person appointed by the faculty board who acts as contact between the student and the university, and in this role represents the interests of the student, as well as fulfilling an advisory role.
Study unit:	A programme component as defined in Article 7.3, paragraph 2 and 3 WHW. Each study unit is concluded with an examination.
Study workload:	The time an average student needs to learn the course material. The study workload comprises project work, independent study, lectures and writing assignments, for example. The study workload is expressed in ECTS credits according to the European Credit Transfer System.
Test:	An evaluation of the student's knowledge, understanding and skills as well as an assessment of the outcomes of that evaluation. A test is part of an examination. If the examination for a study unit consists of a single test then the result of that test will count as the result of the examination.
Teaching period:	The period in which a study unit is offered. This period starts in the first week in which an educational activity takes place for the study unit concerned and ends in the final week in which an educational activity takes place and/or a test is administered for the study unit concerned. Resits are not part of the teaching period. This period may sometimes not be the same as a quarter (a quarter of an academic year).
UT:	University of Twente.
Website:	The website <a href="http://www.utwente.nl/ce">www.utwente.nl/ce</a> , unless stated otherwise
WHW:	The Higher Education and Research Act (abbreviated to WHW), Bulletin of Acts and Decrees 1992, 593, and its subsequent amendments.
Working day:	Any day from Monday to Friday with the exception of official holidays and the prearranged compulsory holidays ('brugdagen') on which the staff are free.

The definition of all other terms used in these Regulations is in accordance with the definition accorded by the main text of this document, the programme-specific section of the EER, the student charter or the WHW.



## SECTION A2 CONTENTS AND STRUCTURE OF THE PROGRAMME

### Article A2.1 FINAL ATTAINMENT LEVELS AND STRUCTURE OF THE PROGRAMME

Explanatory notes: Article 7.13 WHW

1. The qualities relating to the knowledge, understanding and skills that the student should have acquired upon completing the programme (aims and learning outcomes) are set out in the programme-specific appendix.
2. The programme consists of 180 credits.
  - a. The programme consists of a core programme of 120 credits, a minor of 30 credits and a graduation phase totalling at least 15 credits.  
Exceptions are the Advanced Technology and Technical Medicine programmes, which have electives instead of minors, or have no minors, but do have a core programme of more than 120 credits.
  - b. The core programme of the educational programme is specified in the programme-specific appendix.
  - c. The core programme consists of modules.
  - d. Before the start of a study unit, the student must meet the prior knowledge prerequisites for that study unit, as described in the Osiris Course Catalogue.
  - e. Students generally complete their minor courses in the first semester of their third year of study.
  - f. The programme for which the student is enrolled may set conditions for the number of credits required to be eligible for admission to the minor course. These conditions are specified in the relevant programme-specific appendix.
  - g. Students are limited in their choice of minor by the provisions of paragraph d and f. The choice of minors available can be viewed on the minor website.
  - h. In principle, the second semester of the third year of studies is devoted to the graduation phase, which comprises a minimum of 15 credits.
  - i. The student must at a minimum have completed the core of the bachelor's programme to be admitted to the graduation phase.
  - j. The examination board<sup>1</sup> is authorised in individual cases to deviate from paragraph d, f, h and i, if strict adherence to those provisions would result in an unacceptable delay in study progress. In consultation with the study adviser, the student may submit a proposal to the examination board for this.
3. The programme-specific appendix describes the degree programme in accordance with Article 7.13, paragraph 2, a to e, i, l, s, t and v WHW.

### Article A2.2 THE PROGRAMME'S LANGUAGE OF TUITION

1. The official language of tuition is the language in which education is given, in which teaching material is provided and in which tests and examinations are held. Bachelor's programmes taught in Dutch will generally use study materials in English or Dutch.
2. The choice of the official language for an educational programme or components of an educational programme lies with the programme director, subject to the right of consent of the programme committee. The educational programme's language of tuition is specified in the programme-specific appendix.
3. If programme components deviate from the language of tuition, then this is to take place in accordance with the Code of Conduct for Languages of the University of Twente and Article 7.2 WHW.

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<sup>1</sup> It is important that the student is still able to achieve the final attainment levels of the programme. In light of this consideration, this authorisation has been formally conferred to the examination board, as they are the ones to ensure that a student who achieves the final attainment levels is able to graduate.

4. For bachelor's programmes taught in Dutch, components of study units may be taught and assessed in English, if:
  - a. a lecturer or tutor in the unit of study is not a native speaker of Dutch, or
  - b. students from the relevant bachelor's programme take the module together with students from an English-taught bachelor's programme, or
  - c. the programme director considers it necessary in order to fulfil one of the attainment targets or objectives of the educational programme in question in the area of English language communication skills.

#### Article A2.3 EXEMPTION

1. The examination board may grant an exemption to students at their request for one or more examinations or tests. To this end, the student should demonstrate having sufficient knowledge and skills in relation to the examination concerned or the test in question.
2. An exemption granted by the examination board will be registered in Osiris under the study unit or study units, or components thereof, by means of an EX (exemption).
3. Students cannot be compelled to take additional study units or components of study units in their curriculum instead of an exemption that has been granted.
4. Students may also be exempted from practical exercises if they can demonstrate that a required practical exercise will likely give rise to a personal moral dilemma. In such cases, the examination board will determine whether the component can be completed in another manner and in what way.

#### Article A2.4 ELECTIVE PROGRAMME

The examination board decides on requests for permission to take an elective programme as referred to in Article 7.3h WHW. The examination board assesses whether an elective programme is appropriate and consistent within the domain of the educational programme and whether the level is high enough in light of the attainment targets of the programme.

## SECTION A3 TEACHING AND ASSESSMENT

### Article A3.1 GENERAL

1. Each study unit concludes with an examination.
2. The examination consists of one or more tests.
3. A test or examination may take several forms, e.g. a written test, an assignment, an oral test, practical exercises or a combination of the aforementioned. Tests and examinations can be administered online.
4. The programme director publishes at least the following details of the study units in Osiris not less than four (4) weeks in advance: scope, learning objectives and content, language of tuition and assessment, prerequisites, required and recommended study materials, design of teaching methods and assessment.
5. The possibility of unconditional access to at least one resit<sup>2</sup> must be offered for each study unit in the same academic year. An exception may be made for practical exercises (such as practical classes and projects).

### Article A3.2 ONLINE ASSESSMENT

1. If an examination or test is administered using online surveillance<sup>3</sup> or online proctoring<sup>4</sup>, the examination board may set further rules and conditions for online (proctored) assessment.
2. Further information and detailed rules on online assessment can be found on the university's website.

### Article A3.3 RESULTS

1. Results of examinations, tests or components of tests must be announced to students. Osiris is used for the registration of grades for examinations and in some cases also for tests.
2. The student has the right to inspect recent model test questions, model tests or past tests as well as their keys and the norm for assessment.
3. The time allotted to administering a test may not exceed three hours. Exceptions in this regard are listed in section 7.2.  
If the examiner wishes to use a form of assessment that requires more than three hours, the examiner must, with due regard for article 3.1.4, ask the examination board for approval to deviate from the above.
4. Test results are expressed in a grade from 1 to 10 with a single decimal, or as 'pass' / 'fail'.
5. The examination result of a study unit, as determined by the examiner, is expressed in half grades from 1.0 to 5.0 and from 6.0 to 10.0<sup>5</sup>, with grades only being rounded in the final phase<sup>6</sup> of the assessment of a study unit and in accordance with the schedule below:

If figure before the decimal (n)≠5	
Grade ≥ n.00 and <n.25	⇒ n.0
Grade ≥ n.25 and <n.75	⇒ n.5
Grade ≥ n.75 and <(n+1).00	⇒ (n+1).0
If figure before the decimal =5:	
Grade ≥ 5.00 and < 5.50	⇒ 5.0
Grade ≥ 5.50 and <6.00	⇒ 6.0

6. Examination results of 6.0 or higher are a pass.

<sup>2</sup> This means resits of all the tests within a study unit.

<sup>3</sup> Camera surveillance of the student or students during an unrecorded test, using for example Canvas, Teams, etc.

<sup>4</sup> Surveillance of the student or students using special *proctoring* software, such as Proctorio.

<sup>5</sup> In Osiris, a comma is used, based on the Dutch grading system (e.g. 7,0).

<sup>6</sup> Final phase: when all grades are known.

7. Examination results, if a pass, obtained at foreign universities will be registered as a P (*pass*). Examination results obtained at Dutch universities will be adopted one-to-one, with due regard for the provisions in paragraph 5.
8. Credits may only be issued for a study unit if the study unit has been completed with a pass mark.
9. If more than one examination or test result has been recorded in Osiris for one and the same unit of study, the highest grade will apply.

#### Article A3.4 MODULES

1. Each module has a module coordinator, appointed by the programme director.
2. If a module comprises a single study unit then the examiner of that study unit will also be the module examiner.

#### Article A3.5 REGISTRATION

1. Registration in Osiris is required prior to participating in a module or study unit<sup>7</sup>.
2. Upon registering for the module or study unit, the student will automatically be registered for the assessments associated with the teaching period of the module/study unit.

#### Article A3.6 DESCRIPTION OF MODULES AND ASSESSMENT SCHEDULE

1. The programme-specific appendix contains a description of each module.
2. The module description must include:
  - a. the study units comprising the module and the number of related credits;
  - b. if applicable<sup>8</sup>, the number of tests and their relative weighting;
  - c. the language of tuition and assessment (Dutch-language programmes only);
  - d. the manner in which the examinations and/or tests are sat (oral, written or an alternative manner).
3. The assessment schedule of a module is drawn up by the examiner or examiners and is determined by the programme director. The examination board provides advice on the assessment schedule.
4. The assessment schedule must be published in Canvas at least two weeks before the start of the module.
5. The assessment schedule of a module must include:
  - a. how the learning objectives of the module or the study units of the module are assessed and when they are attained;
  - b. the period of validity of the result of the test or tests;
  - c. in which weeks examinations, tests and resits are held (the precise times and dates will be announced via *my-timetable*);
  - d. any required minimum grade per test; a minimum grade for a test may not be set higher than 5.5;
  - e. if applicable: information on resits (such as conditions, compensation options and grading periods).
6. The programme director may modify the assessment schedule during the module or study unit:
  - a. The assessment schedule may only be changed in consultation with the module coordinator and the examiner of the study unit.
  - b. The programme director will consult the examination board before any changes to the form or manner of administering an examination or one or more tests. If the change only involves moving tests to a timeslot other than as shown in the timetable, the programme director will inform the examination board of the decision as soon as possible.

<sup>7</sup> The applicable registration deadlines are mentioned on the webpage [www.utwente.nl/en/education/student-services/education/courses-and-modules/](http://www.utwente.nl/en/education/student-services/education/courses-and-modules/).

<sup>8</sup> As with integrated modules or larger study units.

- c. Students are to be informed immediately of the change.
7. Changes to the assessment schedule may not put students at an unreasonable disadvantage. The examination board may take special measures in individual cases.

#### Article A3.7 ORAL EXAMINATIONS

1. If the student or the examiner wishes a third party to be present when administering an oral examination, then a request to this end must be submitted to the programme director at least fifteen working days prior to the oral examination. The student and the examiner will be notified of the programme director's decision not less than five working days in advance. The programme director must inform the examination board of the decision. Public graduation symposia, public presentations and group tests are excluded from this provision.
2. If the examination board has decided that members of the examination board or an observer on behalf of the examination board is to be present during the administration of an oral examination, then the examination board is to make this known to the examiner and the student at least one working day before the oral examination.

#### Article A3.8 ASSESSMENT DEADLINE, EXAMINATION AND TEST DATE

1. The examiner is to inform the student of the result of an oral examination within one working day, unless, for the examiner, the oral examination is part of a series of oral examinations of the same study unit which are administered on more than one working day. In that case, the examiner is to determine and announce the result within one working day following the conclusion of the series of oral examinations.
2. The result of a test is to be disclosed to the student within ten working days after the test date, with due regard for paragraph 8 below.
3. The examination result of a study unit is to be disclosed to the student within ten working days after the conclusion of the teaching period during which the study unit is offered.
4. The examination date is the date on which the test is taken with which the student definitively passes the study unit.
5. The test date is the date on which a written or oral test is taken.
6. If a test assessment is (among other things) dependent on completing one or more assignments or writing a paper or thesis, then the test date will be the deadline of submission of the final component (or the date of the last written or oral test).
7. If a test resit is planned shortly after the first test, the results of the first test will be published at least five working days before the resit to give the student time to prepare.
8. Should the examiner not be able to meet the deadline referred to in paragraphs 1, 2, 3, 4 and 7 due to exceptional circumstances, then the examiner is to notify the examination board, providing reasons for the delay. The student concerned is to be informed of the delay immediately, and a new deadline for publication of the results will be set and notified to them. If the examination board is of the opinion that the examiner has not met the obligations, it may appoint another examiner to ascertain the result of the exam and determine the grade.

#### Article A3.9 PERIOD OF VALIDITY

1. The results of an examination that has been passed remain valid indefinitely. The period of validity of an examination that was passed may only be limited if the tested knowledge or understanding is demonstrably outdated or the tested skills are demonstrably outdated.
2. Results of tests of a study unit that was failed expire after the academic year. The study unit must be repeated in its entirety in the next academic year. Any exceptions are listed in the assessment schedule.

#### Article A3.10 RIGHT OF INSPECTION AND DISCUSSION

1. Student are entitled to discuss and review their test together with the examiner, and the examiner is to explain the assessment.
2. If the examiner holds a group discussion of the assessment, the student must use that opportunity to exercise the right to discussion referred to in paragraph 1. If a student cannot attend the group discussion or if the student is not given the opportunity at the group discussion to discuss the reasons for the examiner's assessment of the test with the examiner, the student may submit a request for individual discussion with the examiner within five working days after the group discussion. The individual discussion is to take place no later than three working days prior to the next test opportunity.
3. If there is no group discussion of the test, then a student may submit a request to the examiner for an individual discussion within ten days after publication of the results. The individual discussion is to take place no later than three working days prior to the next test opportunity.
4. Individual and group discussions must take place no later than five weeks after the publication of the test results, but at least three working days prior to the next test opportunity, in the presence of the examiner or a substitute designated for that purpose.
5. Students are to be given the opportunity to inspect their assessed work for a period of two years following the assessment.

#### Article A3.11 RETENTION PERIOD FOR TESTS

1. The retention period for test assignments, keys, papers and the assessments of written tests is two years.
2. The retention period for final bachelor's projects is a minimum of seven years.

#### Article A3.12 TEACHING EVALUATION

1. The programme director is responsible for monitoring the quality of the educational programme.
2. The programme director is responsible for evaluating the programme.
3. The programme-specific appendix details how the tuition in the programme is evaluated.

## SECTION A4 EXAMINATIONS

### Article A4.1 EXAMINATION BOARD

1. In line with Articles 7.12a and 7.12b WHW:
  - a. the faculty board appoints an examination board for each educational programme or group of programmes;
  - b. examination boards determine the rules and regulations for the examiners, examinations and final examinations without further consultation.

### Article A4.2 FINAL EXAMINATION AND DEGREE

*Explanatory notes: Article 7.10, paragraph 2 and Article 7.11 WHW*

1. The bachelor's final examination is considered to be complete when the student has passed all study unit exams in the bachelor's programme.
2. The date of the final examination is the date on which the student completes the final study unit of the degree programme.
3. A student may submit a written request, giving reasons, to the examination board to postpone the final examination, and thus to postpone the awarding of the diploma. The maximum duration of any postponement that can be granted is twelve months, in principle. In exceptional cases<sup>9</sup>, the student may have valid reasons for requesting that the awarding of the diploma be postponed for more than twelve months.
4. If the student has requested postponement based on the provisions of paragraph 3, then the date of the examination will be the date on which the examination board decides that the student has passed the final examination subsequent to the postponement.
5. Students who have successfully met all requirements for the bachelor's final examination will be awarded a Bachelor of Science (BSc) degree.
6. The degree conferred is stated on the diploma.

### Article A4.3 DIPLOMA

*Explanatory notes: Article 7.11 WHW*

1. The examination board will award a diploma as proof that the student has satisfied all the requirements of the exam once the institutional administration has confirmed that the procedural requirements for awarding the diploma have been met. The date indicated on the diploma (i.e. the date of the final examination) is the date on which the student completed the final study unit of the degree programme.
2. The diploma will be signed by the chair of the examination board. If the Chair is absent, one of the members of the examination board may also sign the diploma.
3. The following information is to be stated on the diploma:
  - a. the student's name and date of birth;
  - b. the name of the institution and the degree programme as stated in the register referred to in Article 6.3 WHW;
  - c. the date of the final examination;
  - d. the study unit components of the final examination;
  - e. the degree conferred (in accordance with Article 7.10a WHW);
  - f. where appropriate, the specific qualifications associated with the degree (with due consideration for Article 7.6, paragraph 1 WHW);
  - g. the date on which the programme was last accredited or the date on which the programme passed the new programme assessment (Article 5a.11 WHW).

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<sup>9</sup> Some examples (by way of illustration, not to exclude other situations): the student follows a double bachelor's programme, the student needs more time for a pre-Master's programme, an extensive extra-curricular activity requires more than twelve months.

4. An International Diploma Supplement is to be appended to the diploma. This supplement is intended to provide insight into the nature and content of the degree programme to promote the international recognition of the programme, among other aspects. The diploma supplement is to include the following information at a minimum:
  - a. the name of the programme and the name of the university;
  - b. that the programme was offered at an institution for academic education;
  - c. a description of the programme content; an indication of any specialisation and/or minor, if applicable;
  - d. the study workload of the programme;
  - e. the final examination components and results, based on the registration of grades in Osiris;
  - f. examinations passed by the student that are not part of the final examination;
  - g. if the student has successfully completed an honours programme while on the bachelor's programme, then this fact will be stated on the diploma supplement as an extracurricular programme;
  - h. the student's average grade, weighted by credits (Grade Point Average, GPA). The diploma supplement indicates how the average grade is calculated.
5. If the examination board has awarded a specific distinction (e.g. cum laude) to the student, then this is to be mentioned on the diploma.
6. Students who have successfully completed more than one examination but cannot be awarded a diploma as referred to in paragraph 1, will receive, at their own request, from the Student Services Desk a statement prepared by or on behalf of the examination board which in any case will state the results of the examinations the student in question has passed.



## SECTION A5 STUDENT GUIDANCE

*Explanatory notes: Article 7.13 paragraph 2b and Article 7.59 WHW*

### Article A5.1 STUDENT GUIDANCE

1. The student can request a certified study progress overview from the Student Services Desk if required. The faculty board is responsible for student guidance.
2. Student support and guidance includes 'decentralized' guidance, as provided within study programmes, and 'central' guidance, as provided by the Centre for Educational Support.
3. Student guidance includes guidance with questions or problems with regard to career orientation and career choices and guidance with problems that affect study progress. Students are offered personal and professional student (career) guidance for optimal study progress. Where possible, needs for specific guidance are met.
4. Each student is assigned a study adviser.
5. The study adviser supervises students and advises them on all aspects of the studies, also on personal circumstances that may be affecting the student's studies.
6. The opportunity for an introductory interview will be offered to each student before 1 November of the first year of enrolment in the programme.
7. A systematic method on how students are monitored and obstruction in study progress is signalled is documented by the programme (for example in a policy plan or an annual cycle).
8. Information about the guidance facilities of the study programme is in any case available on the website of the study programme.

### Article A5.2 SPECIAL FACILITIES

1. If students wish to exercise their right to specific supervision or special facilities, they should contact the study adviser. The study adviser will record the agreements made with the student in Osiris.
2. A student is entitled to special facilities in case of demonstrable circumstances beyond the student's control or extenuating personal circumstances. The facility may provide for dispensation from or an additional opportunity to sit examinations or tests to be granted and/or for specific facilities to be made available. Such dispensation and additional resits may only be granted by the examination board.

## SECTION A6 STUDENT PROGRESS EVALUATION (BSA)

*Explanatory notes: Article 7.8b WHW*

### Article A6.1 PRELIMINARY RECOMMENDATION ON CONTINUATION OF STUDIES

1. Students will receive a preliminary recommendation on continuation of studies by calendar week 52 at the latest of their first year of enrolment in the programme and a second recommendation on continuation of studies by calendar week 10 at the latest. These recommendations can be positive, negative or neutral and are not binding. Students with a postponed recommendation on continuation of studies receive a warning in their second year of enrolment in the degree programme when their study progress is jeopardized.
2. Students who receive a negative recommendation on continuation of studies will be invited for an interview with the study adviser to discuss their study methods and review their choice of specialisation. A negative preliminary recommendation on continuation of studies is considered as a warning (Article 6.2, paragraph 4).

### Article A6.2 (BINDING) RECOMMENDATION ON CONTINUATION OF STUDIES

1. Students receive a written recommendation on continuation of studies, at the latest by the end of the first year of enrolment in the programme, about continuing their studies. This recommendation is based on the student's results: the student may be allowed to continue on the programme, or may be required to leave the programme, with due regard for Articles 6.3 and 6.4. The institutional administration mandates the programme director to issue recommendations on continuation of studies.
2. The recommendation on continuation of studies includes:
  - a. the results of examinations and tests from the first year of the programme that remain valid the following academic year;
  - b. the exemptions for examinations and tests in the first year that were granted to the student. The programme director may set programme-specific requirements which must be met. These requirements are specified in the programme-specific appendix. Programme-specific requirements may not state that all study units of a certain curricular course must be attained<sup>10</sup>.
3. The programme director may decide that a recommendation on continuation of studies should involve expulsion. A *recommendation on continuation of studies that involves expulsion* is referred to as a *binding recommendation on continuation of studies* (bindend studieadvies, BSA). The programme director will take the student's personal circumstances of which the university is aware into consideration when making a decision. The recommendation on continuation of studies may only involve expulsion if the programme director considers the student as not suited to the educational programme, or the student's results do not meet the required standard, i.e. if:
  - a. the student has obtained fewer than 45 credits of the first year, or
  - b. the student has obtained 45 or more credits of the first year, but does not meet the programme-specific requirements (as referred to in paragraph 2 of this article).The decision notification relating to a binding recommendation on continuation of studies must inform the students of their right to file an objection and appeal via the Complaints Desk.
4. Before issuing a binding recommendation on continuation of studies, the programme director must first issue a warning to the student giving him/her a reasonable term in which to improve the course results, to the programme director's satisfaction (Article 6.1 paragraph 2), and the programme director will give the student the opportunity to be heard.
5. Students may file a request (supported by documentary evidence) for assessment of their personal circumstances to the Personal Circumstances Committee (CPO). This request is to be filed in

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<sup>10</sup> For example: 'The student must pass all mathematics study units from the B1 programme' is not permitted, whereas 'The student must pass three of the four mathematics study units from the B1 programme' is permitted.

consultation with the study adviser. The CPO will assess the validity, nature, severity and duration of the personal circumstances and will issue an advisory opinion on these matters. The CPO's advisory opinion, issued to the programme director and the study adviser concerned, will be taken into account in the programme director's decision-making referred to in paragraph 3.

6. Personal circumstances include illness, physical, sensory or other functional disability or pregnancy of the student involved, extenuating family circumstances, participation in top-level sports or arts and membership of the university council, faculty council, programme committee or a Category 3 or 4 board in accordance with the FOBOS Regulations.
7. Students who have received a binding recommendation on continuation of studies (BSA) may not enrol in the same degree programme for a period of three consecutive academic years. If a student re-enrols in the relevant bachelor's programme after this period, this enrolment is designated as a first-year enrolment and the relevant provisions of this section apply in full.

#### Article A6.3 DISCONTINUATION OF THE PROGRAMME

1. The programme is considered to be discontinued if the student stops taking courses or any form of tests for the programme, and where the student:
  - a. submits a request to the University of Twente to terminate the enrolment, or
  - b. submits a request to terminate the enrolment for one programme at the University of Twente and enrolls in another programme at the University of Twente, thus switching to another programme at the University of Twente, or
  - c. continues the studies at another institute of higher education with a proof of tuition fees paid (*bewijs betaald collegegeld*, BBC).
2. A recommendation on continuation of studies will not be issued if the request to terminate enrolment is received through Studielink by 31 January in the first year of enrolment for the degree programme and the student does not re-enrol for the same programme in that same academic year. If the student re-enrols in the same bachelor's programme in a following academic year, this enrolment is designated as the first-year enrolment.
3. Students who de-enrol after 1 February for a degree programme at the University of Twente will receive a recommendation on continuation of studies, as referred to in Article 6.2 paragraph 1, from the programme they discontinued.

#### Article A6.4 POSTPONEMENT OF RECOMMENDATION ON CONTINUATION OF STUDIES

1. The recommendation on continuation of studies as referred to in Article 6.2 paragraph 1 may be postponed if:
  - a. the student has enrolled in the degree programme on or after 1 October of the relevant academic year and on 31 August at the latest has not met the norm, or
  - b. if personal circumstances preclude an assessment of the student's suitability at the end of the first year of enrolment in the degree programme.In the event of postponement pursuant to the provisions under a), the recommendation on continuation of studies will be issued by the degree programme in which the student is newly enrolled.
2. If the student whose recommendation has been postponed re-enrols in a subsequent academic year in the same programme, the end of the second year of enrolment in the relevant programme at the latest will be the deadline for issuing the recommendation on continuation of studies. The student will in any event be notified in writing within six weeks of the date of enrolment before which date the programme will issue the final recommendation. The same norm as set out in Article 6.2 paragraph 3 applies to this recommendation.
3. If a student transfers to another UT degree programme prior to 1 October, then the recommendation on continuation of studies will not be postponed based on transfer and the norm will not therefore be adjusted as referred to in Article 6.2, paragraph 3.

## SECTION A7 STUDYING WITH A FUNCTIONAL IMPAIRMENT

*Explanatory notes: Article 7.13 paragraph 2m WHW and Article 2 of the Equal Treatment of Disabled and Chronically Ill People Act (WGBH/CZ),*

### Article A7.1 STUDYING WITH A FUNCTIONAL IMPAIRMENT

1. A functional impairment is defined as having an illness, condition, impairment or handicap that might impede or otherwise constitute a barrier to the student's academic progress.
2. Facilities are to be aimed at removing individual barriers in the teaching programme and/or when it comes to taking examinations and tests. These facilities may be related to access to infrastructure (buildings, classrooms and teaching facilities) and study materials, adjustments to the form of assessment, alternative learning pathways or a customised study plan.

### Article A7.2 REQUEST FOR FACILITIES

1. The study adviser and the student concerned will discuss the most effective facilities that can be provided for the student.
2. Based on the discussion referred to in paragraph 1, the student is to submit a request for facilities. This request should be submitted to the study adviser, who has been mandated by the faculty board, preferably three months before the student is to participate in classes, exams and tests for which the facilities are required.
3. The request should be supported by documents that are needed to enable an assessment to be made.
4. The study adviser will decide on the admissibility of the request and will inform the student of the decision within twenty working days after receipt of the request, or sooner if the urgency of the request dictates.
  - a. Should the request be granted, the period of validity will also be indicated.
  - b. If the request is not granted, or only partly granted, the study adviser will inform the student of the justification for not granting the request as well as the possibilities for filing an objection and an appeal with the Complaints Desk.
  - c. Students who are dyslexic, will be granted a maximum of 15 extra minutes for each hour that a test or exam is officially scheduled.
5. The study adviser shall inform the relevant parties in good time about the facilities that have been granted.
6. The applicant and the study adviser will evaluate the facilities before the end of the period for which they have been granted. During this evaluation, the parties discuss the effectiveness of the facilities provided and whether they should be continued. No evaluation takes place of facilities granted to students because of the functional impairment dyslexia.

## SECTION A8 AMENDMENTS, TRANSITIONAL ARRANGEMENTS, APPEALS AND OBJECTIONS

### Article A8.1 CONFLICTS WITH THE REGULATIONS

If other additional regulations and/or provisions pertaining to education and/or examinations conflict with these education and examination regulations, the provisions in these education and examination regulations will prevail.

### Article A8.2 ADMINISTRATIVE ERRORS

If, following the publication of a result, a marks sheet, or a student's progress report a manifest error is discovered, the discoverer, be it the university or the student, is required to make this known to the other party immediately upon finding the error and to cooperate in rectifying the error.

### Article A8.3 AMENDMENTS TO THE REGULATIONS

1. Substantive amendments to these Regulations are enacted by the faculty board in a separate decision.
2. In principle, substantive amendments to these Regulations do not apply to the current academic year. Amendments to these Regulations may apply to the current academic year if the interests of the students are not prejudiced within reasonable bounds, or in situations of force majeure.
3. Amendments to these Regulations have no effect on earlier decisions by the examination board.

### Article A8.4 TRANSITIONAL ARRANGEMENTS

1. In the case of amendment of these education and examination regulations, the faculty board will adopt a transitional arrangement, as necessary.
2. The transitional arrangement is to be published on the degree programme's website.
3. Changes to the curriculum are to be announced prior to the academic year in which the changes take effect. No guarantee can be made that all programme study units that were part of the curriculum when students enrolled in a programme will continue to be part of the curriculum. The final bachelor's examination is to be based on the curriculum most recently adopted by the faculty board.
4. The transitional arrangement will always include:
  - a) the study units, which have been dropped, that are equivalent to study units from the current curriculum as indicated in the programme-specific appendix;
  - b) an indication that if a study unit that does not involve a practical is dropped from the curriculum, then students are to have at least two opportunities in the following academic year to take a written or oral exam or to undergo another form of assessment;
  - c) an indication that if a study unit with practical exercises is dropped from the curriculum and there is no opportunity in the subsequent academic year to complete the practical exercises concerned, then at least one study unit will be designated that may be completed as a substitute for the study unit that has been dropped;
  - d) the period of validity of the transitional arrangement.
5. The transitional arrangement must be approved by the examination board.
6. In exceptional cases and to the student's benefit, the examination board may deviate from the prescribed number of opportunities to sit exams and/or tests related to study units that have been dropped from the curriculum.

### Article A8.5 ASSESSMENT OF THE EDUCATION AND EXAMINATION REGULATIONS

1. The faculty board is responsible for the regular assessment of the education and examination regulations, with specific emphasis on the study workload.
2. Based on Article 9.18 WHW, the programme committee has a partial right of consent of and a partial right to be consulted on parts of the education and examination regulations.

3. The programme committee is responsible for the annual assessment of the manner in which the education and examination regulations are implemented.

#### Article A8.6 APPEAL AN OBJECTIONS

An appeal and objections must be submitted in writing to the University of Twente Complaints Desk within six weeks after notification of a decision to the student: [www.utwente.nl/en/education/student-services/contact/complaints-desk/](http://www.utwente.nl/en/education/student-services/contact/complaints-desk/)

#### Article A8.7 HARDSHIP CLAUSE

In cases of demonstrable unreasonableness and unfairness of a predominant nature, the examination board or the programme director may allow the provisions in these Regulations to be deviated from. This depends on which body is authorised or has the duty according to these Regulations to take a decision on or make an exception to a provision in these Regulations.

#### Article A8.8 PUBLICATION

The education and examination regulations and the examination board's rules and regulations are to be published on the degree programme's website.

#### Article A8.9 ENTRY INTO FORCE

These Regulations enter into force on 1 September 2022 and replace the Regulations dated 1 September 2021. Adopted on July 13, 2022 by the faculty board, having regard to Article 9.5, 9.15 paragraph 1a, 7.13 paragraph 1 and 2, 9.38b, 9.18 paragraph 1a and 7.59 WHW, and after approval by the faculty council.

# EDUCATION AND EXAMINATION REGULATIONS

PROGRAMME SPECIFIC APPENDIX  
BACHELOR'S PROGRAMME CIVIL ENGINEERING

2022-2023

## ARTICLE 1. GENERAL CONDITIONS

### 1.1 APPLICABILITY OF THE EDUCATION AND EXAMINATION REGULATIONS

- 1) This Education and Examination Regulations (EER) applies to the education and the examinations of the bachelor's programme in 'Civil Engineering (CE)', hereafter called: the CE programme.
- 2) The CE programme is provided under the responsibility of the Faculty of Engineering Technology at the University of Twente, hereafter called: the Faculty.
- 3) The final responsibility for the implementation of the education programme rests with the Programme Director and for assessment with the Examination Board.

A student who doubts the compliance of any element of the CE programme with the EER can ask the Programme Director for clarification. The student has the right to appeal against a decision that has been taken.

## ARTICLE 2. ADMISSION

### 2.1 REQUIREMENTS FOR PREVIOUS EDUCATION

Admission to the programme is granted if the requirements with regard to prior education for enrolment in university education are met, in accordance with the WHW, Articles 7.24, 7.25 and 7.28. The conditions pertaining to this can be found on the University of Twente's website.



## ARTICLE 3. AIMS AND VISION OF THE PROGRAMME

### 3.1 AIMS AND VISION OF THE PROGRAMME

The mission of the Civil Engineering Department is to develop, apply and disseminate knowledge and novel solutions in the domain of civil engineering, contributing to a sustainable, efficient, safe and resilient society. Civil Engineering at the University of Twente aims to be an internationally oriented leading scientific department that develops, applies and disseminates knowledge and tools for Civil Engineering in a societal and environmental context. The overall aims of the Civil Engineering programme are:

- 1) To train high-quality engineers with a wide range of competencies: The competencies (knowledge, skills and attitude) ensure that the students understand and apply current knowledge, that they are able to use state-of-the-art methods, techniques and tools, and that they show a professional attitude that will allow them to perform at high levels;
- 2) To educate students as critical professionals who are able to serve as and collaborate with professionals in various national and international settings;
- 3) To provide a stimulating and supportive environment in which students can learn the competencies that will be expected of the Civil Engineers of tomorrow;
- 4) To realise regular involvement with the national and international civil engineering field at all levels.

Regarding academic competencies the graduate has the following intended learning outcomes (4TU Academic criteria (Meijers' Criteria)):

*A Bachelor of Science graduate of the CE degree programme is / has*

- 1) Competent in one or more scientific disciplines
  - a. The graduate understands the knowledge base of Civil Engineering<sup>\*)</sup> and of Technical Process Management in the field of Civil Engineering (i.e. the part of Business Administration and Public Administration relevant for Civil Engineering), is able to apply this knowledge, and is able to maintain and expand his or her knowledge in the field of Civil Engineering and Management
    - <sup>\*)</sup> particularly in the following subfields:
      - i. Building and Infrastructure;
      - ii. Traffic and Transport systems;
      - iii. Hydraulics of natural water systems.This includes the required knowledge of related fields, such as Mathematics and Physics.
  - b. The graduate is able to combine knowledge from Business and/or Public Administration with technical knowledge and apply this in an integral way within civil engineering systems, projects or processes of limited complexity.
- 2) Competent in doing research
  - a. The graduate is able to identify knowledge gaps within a subfield of Civil Engineering and Management.
  - b. The graduate is able to formulate research problems and is able to produce and carry out a research plan (under supervision), by applying an appropriate methodology, analysing and discussing the results and drawing conclusions from the results.
  - c. The graduate understands the potential benefits of research.
  - d. The graduate is able to assess research within a subfield of Civil Engineering and Management on its usefulness.
- 3) Competent in designing
  - a. The graduate is able to:
    - i. Create a functional design of civil engineering constructions of limited complexity;
    - ii. Design management processes with limited complexity in the field of Civil Engineering.
  - b. This means that:
    - i. The graduate has synthetic skills with respect to design projects;
    - ii. The graduate is application-oriented towards the Civil Engineering field when designing;

- iii. The graduate is able to find a balance between possible solutions of requirements, technical possibilities and genuine interests of the parties involved.
- 4) A scientific approach
  - a. The graduate has the habit of reflecting upon his or her own work and continuously uses relevant information to improve his or her capabilities.
  - b. The graduate has the attitude of encouraging his or her personal development and improving his or her expertise.
  - c. The graduate makes decisions based on facts, quantified information and solid arguments and is able to evaluate these decisions.
  - d. The graduate is able to judge if available tools and techniques suffice for the problem at hand, is able to apply the proper tools and techniques and is able to contribute to the development of new tools, theories and techniques if these are not available.
  - e. The graduate is able to develop a model to describe/schematise parts of reality of limited complexity, i.e. the graduate is able to describe civil engineering processes and objects qualitatively (in terms of basic principles) and, where necessary and possible, is able to quantify this description in terms of mathematical relationships.
  - f. The graduate knows that models only approximate reality and is able to use them appropriately whenever this is beneficial.
  - g. The graduate's scientific attitude is not restricted to the boundaries of Civil Engineering and Management.
- 5) Basic intellectual skills
  - a. The graduate is able to work independently on assignments / projects of limited complexity.
  - b. The graduate is able to work systematically and methodically.
  - c. The graduate is able to analyse problems and information thoroughly and systematically, is aware of analogies between problems and is able to determine connections between different aspects of problems or information of limited complexity.
  - d. The graduate is competent in numeracy and is aware of orders of magnitudes.
  - e. The graduate is able to reflect on issues in the different subfields of Civil Engineering and Management.
- 6) Competent in cooperating and communicating
  - a. The graduate is able to work effectively in a multidisciplinary environment, can act in different roles depending on the situation, and can take responsibility as a team member.
  - b. The graduate knows the importance of oral and written communication, and can make effective use of them, which means that:
    - i. The graduate is capable of collecting and selecting relevant information;
    - ii. The graduate is skilled in properly documenting and presenting results of his or her work, including the underlying knowledge, choices and considerations, to colleagues and to a broader public;
    - iii. The graduate is competent in reasoning;
    - iv. The graduate adheres to existing academic conventions, such as giving proper credit and referencing.
- 7) Takes account of the temporal and societal context
  - a. The graduate is able to position the field of Civil Engineering in its societal context.
  - b. The graduate is able to form an opinion or judgement and contribute to discussions about matters related to Civil Engineering and Management.
  - c. The graduate knows that compromises are unavoidable and is able to deal with them.
  - d. The graduate is aware of the disadvantages for society of certain decisions.

### 3.2 PURPOSE OF THE PROGRAMME

The BSc programme aims to provide academic knowledge, understanding, competencies and skills in the domain of CE and certain sub-domains at a level which qualifies the graduate for:

- 1) Independent professional practice at the BSc level in the field of CE;
- 2) Enrolment in education programmes at the MSc level in the field of CE.

### 3.3 LANGUAGE

- 1) The language of instruction is English for the entire Bachelor CE programme.
- 2) If another language than English is used, it is in terms of exception and always has to be approved by the Examination Board.
- 3) The BSc-thesis is executed in English. If another language is preferred, this is in consultation with the supervisor and the company, however, the clear preference is English. In case the BSc-thesis is executed in another language than English, the student is obliged to provide an executive summary of the final report in English.

### 3.4 STUDY ABROAD

The programme has the aim of stimulating all students to have an international experience during the study. This can be a graduation project and/or attending a number of regular courses at a foreign university as part of the Minor or Module 12. For the extra costs incurred by Study Abroad, there are subsidy regulations for which can be applied once during the programme. Please refer to the subsidy regulations for further information: <https://www.utwente.nl/en/education/scholarship-finder/>

## ARTICLE 4. EDUCATION AND PROGRAMME

### 4.1 TWENTE EDUCATIONAL MODEL (TOM)

In 2013 the UT implemented the Twente Educational Model (TOM) in all its BSc programmes. In TOM, thematic modules, worth 15 EC each, focus on a particular project.

The programme Civil Engineering covers three academic years. An academic year is divided into four quartiles with a schedule of ten (or eleven) weeks. Each thematic module (15 EC) covers a full quartile. A module consists of different, interconnected study units. The modules can be categorised into 3 phases:

- 1) Module 1 till 4, provided in the first year of the CE programme, offer an introduction into Civil Engineering and cover the three core themes: building, water and traffic. These modules are orientational and selective modules (selective because of the Binding Recommendation at the end of the first year).
- 2) Module 5 till 8 cover the second year of the programme and consist of modules with integrated topics. Students are provided with more in-depth knowledge.
- 3) The third year of the programme consists of the Minor (elective space, Module 9 and 10) and the graduation semester (Module 11 and 12).

For students of cohort 2012 and earlier, the programme no longer offers any possibilities to complete subjects of B1 and B2 of the examination programme applicable at that time.

### 4.2 ORGANISATION OF THE PROGRAMME

In the table below, an overview of the CE programme's modules including study units is provided.

The module descriptions, including testing methods as referred to in art. 3.6 of the EER2022, can be found in the Osiris course catalogue: <https://osiris.utwente.nl/student/OnderwijsCatalogus.do>. For the number and order of tests and practical exercises see the test schedule of the Module, which is published on the Canvas site of that Module (EER2022 article 3.6 section 4).

Module	Course	Name	EC
<b>Module 1:</b>	<b>202000041</b>	<b>Introduction to Civil Engineering</b>	<b>15</b>
	202000042	Fundamentals of Civil Engineering	2
	202000043	Structural Mechanics 1	4
	202000044	Civil Engineering Design Project	5
	202001189	Introduction to Mathematics and Calculus 1A	4
<b>Module 2</b>	<b>202000048</b>	<b>Water Management</b>	<b>15</b>
	202000049	Fluid Mechanics 1	2
	202000050	Measurements in Fluid Mechanics	1
	202000051	Water	2.5
	202200304	Governance of Multi-Actor Problems <sup>11</sup>	1.5
	202000055	Introduction to programming in engineering using Python 1	1
	202000054	Project Blue Nile	4
	202001196	Calculus 1B	3
<b>Module 3</b>	<b>202000056</b>	<b>Traffic and Transport</b>	<b>15</b>
	202000057	Theory Traffic & Transport	5
	202000058	Project Traffic & Transport	7
	202001204	Linear Algebra	3
<b>Module 4</b>	<b>202000060</b>	<b>Designing Constructions</b>	<b>15</b>
	202000061	Structural Mechanics 2	3
	202000062	Introduction Project Disciplines	4.5
	202000063	Design of Constructions project	4.5
	202001220	Calculus 2	3

<sup>11</sup> The study unit Governance of Multi-Actor Problems (202200304) replaces the study unit Policy Processes (202000052) in 2022-2023

<b>Module 5</b>	<b>202000064</b>	<b>Safety and Risk in Deltas</b>	<b>15</b>
	202000065	Soil Mechanics	2
	202000066	Fluid Mechanics 2	2
	202000067	Water Management	2.5
	202000068	Project Flood Risk	6
	202200069	Introduction to programming in engineering using Python 2	0.5
	202001226	Vector Calculus	2
<b>Module 6</b>	<b>202100168</b>	<b>Sustainable Civil Engineering</b>	<b>15</b>
	202100169	Design Strategy and Sustainable Civil Engineering Project	3.5
	202100170	Structural Mechanics 3	3.5
	202100171	Environmental and Economic Sustainability	3
	202100172	Social Sustainability	3
	202100173	Energy	2
<b>Module 7</b>	<b>202000072</b>	<b>Area Development</b>	<b>15</b>
	202000073	Practical GIS	2
	202000074	Economic Assessment	2
	202000075	Spatial Policy and Law	2
	202000076	Stakeholder Analysis and Management	2
	202000077	Project Area Development	7
<b>Module 8</b>	<b>202200229</b>	<b>Simulation and Stochastic Modelling in Civil Engineering</b>	<b>15</b>
	202200230	Traffic Flows	3
	202200231	Logistic Processes in Construction	3
	202200232	Project	9
<b>Module 9</b>		<b>Minor</b>	<b>15</b>
<b>Module 10</b>		<b>Minor</b>	<b>15</b>
<b>Module 11</b>	<b>202000085</b>	<b>Preparation BSc-thesis Civil Engineering</b>	<b>15</b>
	202000086	Production of Knowledge	7
	202000087	Preparation BSc Thesis	8
<b>Module 12</b>	<b>202000089</b>	<b>Bachelor Thesis</b>	<b>15</b>
	202000090	BSc Research Assignment	15

#### 4.2.1 COHERENCE OF STUDY UNITS

The programme consists of 8 coherent modules in the first two years that have different study units. The overview of modules and study units can be found in paragraph 4.1 or on the programmes' website (<https://www.utwente.nl/en/ce/>). For each module, a module manual will be published on the Canvas page of the module. In this manual, students can find an overview of the module and its study units. Although the study units are registered separately, the study units within a module are coherent and should be taken together. In case of retaking certain study units, students are urged to take no more than 15 EC per quartile. It is not allowed to enrol in two projects in the same quartile.

#### 4.3 STUDY LOAD OF THE PROGRAMME

The programme is a full-time programme. The differentiation programme of the B-CE programme consists of a minor and the Bachelor thesis.

The study load of the Civil Engineering programme is 180 EC of which:

- 120 EC for the core programme
- 30 EC for the minor (elective modules)
- 30 EC for the graduation semester

#### 4.4 PRACTICAL EXERCISES

- 1) Each module of the study programme in year 1 (B1) and year 2 (B2) of the Civil Engineering programme has a practical exercise in the form of a design project that is an integral part of the module.
- 2) The graduation semester (second semester of B3) of the Civil Engineering programme includes a number of practical exercises in the form of (individual and group) assignments.
- 3) In addition, other practical exercises may be part of study units throughout the entire programme. More information on these practical exercises can be found in the descriptions of the study units of the study programme.
- 4) Practical exercises or projects can, generally, only be done once per academic year. It is not allowed to enrol in 2 projects in the same quartile.

#### 4.5 PERIOD OF VALIDITY OF PASSED EXAMINATIONS

- 1) Coherent modules consist of study units with their own grades. The coherent module itself is not graded. Each study unit is tested with an examination.
- 2) Examination results remain valid indefinitely in case a study unit is passed. Otherwise a study unit needs to be redone completely, except for practical exercises.
- 3) The examination can consist of multiple tests. Results of tests of a study unit expire upon completion of the academic year in case the study unit was not passed successfully (see article 3.9.2 EER2022). Exceptions are listed in Annex 2 and in the assessment schedule of the module.
- 4) In the study progress overview, coherent modules are registered with separate study units with their own grades and ECs.

#### 4.6 COMPOSITION OF THE MINOR

In the first semester of B3 (modules 9 and 10), students can select minors for the realisation of their profiling track. Participation in a Minor is only allowed if the student has completed a minimum of 6 full modules in total from B1 and B2.

- 1) Students can choose (a combination of):
  - a. Civil Engineering minors:
    - i. Multifunctional Flood Defences
    - ii. Smart Ways to Make Smart Cities Smarter
  - b. High Tech Human Touch Minors (HTHT)
  - c. Educational Minor, Crossing Borders
  - d. More UT minors
  - e. Study abroad: Students can, in consultation with and after approval by the Study Advisor, go for an exchange semester at one of the partner universities of the UT. A list of partner universities can be found on the website: [www.utwente.nl/en/et/student-mobility/partners/](http://www.utwente.nl/en/et/student-mobility/partners/)
    - i. An exchange minor may contain foreign language courses up to a maximum of 5 EC.
    - ii. For more information on the procedure for an exchange minor, see [www.utwente.nl/en/et/student-mobility/outgoing/exchange-procedure/](http://www.utwente.nl/en/et/student-mobility/outgoing/exchange-procedure/)
  - f. Minor at another educational institute (free minor): instead of attending modules at the UT, the student can include another Minor in his or her program, consisting of components offered outside the University of Twente. In that case a written approval of the Examination Board is required (to be applied for at the Study Advisor). Such free minors must meet the following criteria:
    - i. Contains (almost) no parts that are also part of the CE core programme
  - g. Transfer minor (transfer to a master of another educational program)

In addition to the admission rules on the website ([www.utwente.nl/en/education/electives/minor/](http://www.utwente.nl/en/education/electives/minor/)), the Examination Board has ruled that some minors cannot be selected in the differentiation programme, or can only be selected under specific conditions. These minors are listed in the table below.

Minor	Restriction
Crossing borders	Not allowed in combination with the Study Tour Civil Engineering in the Bachelor's programme

#### 4.7 APPROVAL, PUBLICATIONS AND REGISTRATION OF RESULTS

The programme specific rules for CE regarding test results are described in the Rules and Regulations of the Examination Board and can be found on the website of the Examination Board CE/CEM/CME (<https://www.utwente.nl/en/cem/organization/examination-board/>).

#### 4.8 RIGHT OF INSPECTION AND DISCUSSION

The programme specific rules for CE regarding inspection of exams or tests are described in the Rules and Regulations of the Examination Board and can be found on the website of the Examination Board CE/CEM/CME (<https://www.utwente.nl/en/cem/organization/examination-board/>).

#### 4.9 BINDING RECOMMENDATION ON CONTINUATION OF STUDIES

In accordance with EER2022 article 6.2, paragraph 2B, the Programme Director may set programme specific requirements that must be met. Students who started their CE education from 2021-2022 must meet the following rule:

At the end of the first year of the CE programme, the student has:

- 1) Acquired at least 45 EC of B1 study units of the CE-bachelor's programme (grade 6.0 or higher); AND
- 2) 4 out of 7 technical study units need to be passed (grade 6.0 or higher).
  - a. The technical study units in the B1 CE-programme are: Structural Mechanics 1, Structural Mechanics 2, Fluid Mechanics 1, Introduction to Mathematics & Calculus 1A, Calculus 1B, Linear Algebra, and Calculus 2.

#### 4.10 MASTER PROGRAMMES

- 1) The Civil Engineering Bachelor's programme gives direct access to the Master's programmes Civil Engineering and Management (CEM) and Construction Management and Engineering (CME) of the University of Twente. For the admission rules for these Master's programmes, see the Education and Examination Regulations CEM and CME (<https://www.utwente.nl/en/cem/rules-and-regulations/>).
- 2) Students can consult the website [www.doorstroommatrix.nl](http://www.doorstroommatrix.nl) for more information on alignment with other Master's programmes. Students can also contact the Study Advisor or Student Counselling (<https://www.utwente.nl/en/ces/sacc/coaching-counselling/>).

## ARTICLE 5. FINAL DEGREE

### 5.1 EXAMINATION OF THE PROGRAMME

The B-CE programme has one final examination: the Bachelor Thesis and Evaluation.

#### 5.1.1 REQUIREMENTS

- 1) Participation in the Graduation Semester (modules 11 and 12) is only allowed if the student has fully completed modules 1-8 (years B1 and B2).
  - a. An exemption is that a student doing module 11 in quartile 3 is allowed to take study units up to a maximum of 4 EC from module 3 and/or 7 simultaneously with module 11. In case of failing for these remaining study units, the student can start with module 12 but has to re-take these study units in the study-year after.
  - b. An exemption is that a student doing module 11 in quartile 1 is allowed to take study units up to a maximum of 4 EC from module 1 and/or 5 simultaneously with module 11. In case of failing for these remaining study units, the student can start with module 12 but has to re-take these study units in the study-year after.
- 2) The student will execute his or her assignment in a Civil Engineering company/institution; this hands-on experience is the only way to link the obtained knowledge and skills with practice.
  - a. In exceptional cases, the student is allowed to do an internal assignment.
- 3) To finish the BSc Thesis Assignment and to obtain 15 EC the student has to prove that he has enough content knowledge, capability to work systematically and that he or she is able to report his or her work by fulfilling the following requirements:
  - a. The student has worked in the company/organisation for at least 10 weeks;
  - b. The student has digitally handed in the report with his UT supervisor, the external supervisor and the second assessor;
  - c. A final examination session took place and the student is awarded a sufficient grade;
  - d. The student handed in a pdf version of his or her report via [Bachelorassignment-ce@utwente.nl](mailto:Bachelorassignment-ce@utwente.nl);
  - e. The student digitally filled out the evaluation forms and submitted these;
  - f. The student has digitally handed in the evaluation report for which the student was instructed during module 11. The requirements for the evaluation report are to be found on the module 12 Canvas page where the evaluation report must be submitted as well.
- 4) The final grade for the BSc Thesis Assignment is determined based on the final report and the final presentation. The process of getting to the final report will also be taken into consideration in the students' grade, together with the students' functioning and attitude at the external company. An overview of the assessment criteria is presented in the BSc-thesis manual.

#### 5.1.2 DURATION

- 1) The duration of the BSc-thesis assignment is 10 weeks.
- 2) The duration of the BSc-thesis assignment corresponds with the study-load of 15 EC.

#### 5.1.3 MEMBERS OF THE GRADUATION COMMITTEE

The graduation committee assesses the students' report and are present at the final examination. The committee consists of the following people:

- 1) The UT supervisor is a member of the UT scientific staff who guides and assesses the student in terms of content.
- 2) The second assessor is a member of the UT scientific staff of a different domain than the domain the student is doing his or her assignment at.
- 3) The external supervisor is the person that guides the student within the external organisation.



## 5.2 DEGREE

- 1) To show that the Bachelor's examination has been successfully completed, a degree certificate is awarded by the Examination Board. The degree certificate is signed by the persons stated in the regulations from the Examination Board (see Annex 3). The award takes place in public; in special circumstances the Examination Board can deviate from this.
- 2) The International Diploma Supplement (WHW art. 7.11, section 4) is added to the degree certificate. The objective of this supplement is to provide insight into the content of the completed programme for the purpose of international identification of the programme.
- 3) 'Extra courses' are stated when applicable, provided these were added to the study programme by request of the student with the approval of the Programme Director. The stated 'extra courses' make no part of the total programme. These courses should have been satisfactorily completed.

## 5.3 CUM LAUDE

- 1) The CE Programme determines the requirements for a Cum Laude distinction for the CE bachelor's programme. The requirements comprise the following criteria:
  - a. If a student demonstrates exceptional ability during the bachelor examination, the words "Cum Laude" may be included on their degree certificate.
  - b. The following conditions must be met to qualify for this:
    - i. The weighted average of the grades for the study units of the bachelor examination, excluding the final grade for the bachelor thesis (module 12), is at least 8.0. Study units for which no assessments in the form of a grade are given or for which the student was exempted are disregarded for this calculation;
    - ii. The number of exemptions in the sense of article A2.3 does not exceed one-third of the volume of the B-CE programme;
    - iii. For students who started in their programme in the TOM 2.0 setup, three grades can be less than 7.0 (i.e. 6 or 6.5), the minimum grade for all other study units is 7.0;
    - iv. The final grade for the BSc-thesis project (module 12) is at least 8.0;
    - v. The bachelor's programme was completed within four years, unless special circumstances, for the assessment of the Examination Board, justify a longer delay. Special circumstances are, in any case, circumstances recognised as a condition for the granting of graduation support;
    - vi. "Cum Laude" shall not be awarded if the student has previously been found to have committed fraud or plagiarism during the CE programme.
  - c. When there are special circumstances, the Examination Board has the right to let the student graduate with distinction if he does not fully meet requirements i to v, as defined under paragraph 1.

## ARTICLE 6. STUDENT GUIDANCE

### 6.1 PROGRAMME SPECIFIC STUDENT GUIDANCE

The student guidance is already mentioned in Section 5 of the general part of the EER. The CE programme has the following addition to that section:

- 1) The Study Advisor is responsible, for the coordination and the quality of student counselling.
- 2) Each first-year student is assigned a mentor at the start of his or her Bachelor CE programme. The mentor is an employee of the faculty. In consultation with the Study Advisor, a student may be assigned another mentor in the first year. The mentor will provide guidance and advice to the student in the first year.
- 3) The Study Advisor signals and helps in finding solutions. Additionally, the Study Advisor provides - solicited or unsolicited - advice to the Examination Board, to the Programme Director and/or to individual lecturers/examiners. The Study Advisor also provides advice to students in relation to identified bottlenecks in the study load and study progress of individual students or groups of students.

### 6.2 PRACTICAL REALISATION OF COUNSELLING

- 1) Starting points for counselling of Bachelor students:
  - a. Aimed at all students during their entire programme;
  - b. Both reactive and pro-active (focused on career and study progress);
  - c. Pro-active;
    - i. Information meetings in B1 on B2, in B2 on B3, information on BSc-thesis assignment and the master programmes of Civil Engineering
    - ii. Invitation of first-year students by mentor (introduction conversation and during the first year based on the progress)
    - iii. Invitation of second-year students by Study Advisor (1 time)
    - iv. Invitation of students without progress by Study Advisor
    - v. Invitation by the Study Advisor following a report (e.g. by a teacher or by a fellow student)

## ANNEX 1. PRACTICAL INFORMATION

### CONTACT INFORMATION

Dean of the faculty	Prof.dr.ir. H.F.J.M. Koopman
Programme Director	Dr.ir. D.C.M. Augustijn
Programme Coordinator	P. Jansen, MSc.
Study Advisor	Ir. J. Roos - Krabbenbos
Pre-Master coordinator	E.C.M. Luijkx. MSc.
Bureau of Educational Affairs (BOZ)	<a href="mailto:BOZ-CE-CES@utwente.nl">BOZ-CE-CES@utwente.nl</a>

### PROGRAMME COMMITTEE (OLC)

The Programme Committee is responsible for monitoring and approving of the content as mentioned in WHW art.9.18, and quality of the programmes of Civil Engineering. In the Programme Committee both scientific staff and students are equally represented. The composition of the Programme Committee for Civil Engineering can be found on: <https://www.utwente.nl/en/ce/organization/olc/>

### EXAMINATION BOARD

The Examination Board makes objective and well-grounded decisions on whether the student meets the requirements in terms of his or her end level and guards the standards for the end level itself. Assessment is an important element and refers to all sorts of assessments: oral and written exams, papers, bachelor- and master theses and so on. The composition of the Examination Board for Civil Engineering can be found on **Error! Hyperlink reference not valid.** [www.utwente.nl/en/ce/organization/examination-board/](http://www.utwente.nl/en/ce/organization/examination-board/)

### STUDY ASSOCIATION

Concept is the study association for students of Civil Engineering, Civil Engineering and Management (CEM) or Construction Management and Engineering (CME). Concept supports students in their student life in three different categories: Professional, Educational and Social. Within these categories a wide range of activities are organised. From Lunch lectures to study evenings and from a trip abroad to a gala. You can find more information on their website [www.concept.utwente.nl/home](http://www.concept.utwente.nl/home)

### INFORMATION SUPPLY

- 1) The University of Twente uses an electronic learning environment (Canvas <http://canvas.utwente.nl>). Canvas is filled per course and contains detailed course information, assignments, etc.
- 2) The University of Twente uses a student information system (Osiris, <http://osiris.utwente.nl/student>). Osiris contains information on the programme and global course information. It is used for examination registration and for the registration of grades.

### FACILITIES

- 1) For all communication connected to the programme as well as in all administrative procedures the electronic learning environment Canvas, internet or intranet will be used. In the organisation of the CE programme the assumption is that students are in possession of a laptop. The faculty Engineering Technology students can use the offer of the Notebook Service Centre (NSC) for this purpose. Via their laptop, students can use the network of the university, which provides access to Canvas, the internet and intranet.
- 2) Use of computer and network facilities for other purposes than study may be regarded as misuse.
- 3) When they first enrol with the University of Twente, each student will be provided with an individual student email account.
- 4) The CE programme employs a Canvas site. Most electronic communications by the programme will be conveyed via this site. All students are requested to enrol for this programme site from the start of their study.

- 5) The university has lecture rooms and tutorial rooms, facilities for guided and independent self-study, a library and research facilities for educational purposes. The university offers limited facilities for free computer access.
- 6) The programme provides accommodation to the study association for their activities.
- 7) Misuse of or damage to facilities of the University of Twente, or misconduct can, in addition to leading to claims for compensation, lead to a decision by the Dean to temporarily exclude the student from participation in the programme, tests, exams and examinations.
- 8) Books and journals relevant for the CE programme can be found in the Central Library of the University of Twente (on-campus and online). Regulations concerning the quantity of books on loan, the lending period and fines are determined by the University Library.
- 9) If excursions, work visits, field work, etc. are a part of the programme (either compulsory or optional) that students are expected to take part in, the maximum contribution to the costs per student per excursion will be 10 Euro, for a maximum of 4 excursions per year. Any costs exceeding this will be for the account of the university. If the above activities take more than one day, the programme will take care of proper accommodation.

## TEACHING METHODS

- Lecture: a plenary meeting for students intended for the transfer of information.
- Tutorial: a meeting (for a subgroup of the population) intended to enable students to process the course matter.
- Colstruction: combination between a lecture and a tutorial.
- Assignment: the execution of a design or research assignment.
- Practical: a practical training in the sense of art. 7.13, section 2 item d WHW. This concerns the participation in an educational activity aimed at the acquisition of skills, such as making an assignment or a test design, carrying out tests and experiments, and taking part in field work or an excursion.
- Project: executing a design or research assignment as a team.

## TIMETABLES

- Within reason, the parts of the programme will be spread evenly over the year, ensuring that the study load (including assignments, projects, practical exercises, etc.) is spread evenly over the weeks of the programme. The timetables can be found at <https://rooster.utwente.nl/>
- The timetable for each year consists of two semesters or four quarters. The last two weeks of each quarter are usually reserved for exams/resits and/or finishing assignments and/or projects. The teaching of the minor in year B3 covers two quarters. The study load of these subjects is distributed over an entire semester.

## QUALITY ASSURANCE

Quality Assurance involves at least the following annual activities:

- 1) Surveys carried out at the end of each quarter  
These surveys may be conducted among the participating students, at the end of each quarter.
- 2) Comprehensive evaluation of a component of the study programme  
Upon the request of the Programme Committee, the Civil Engineering Evaluation Committee performs evaluation reports each quarter which are discussed in the Programme Committee meeting.
- 3) Panel discussion  
Panel discussions are held after each module of every academic year (B1, B2. If desired a panel discussion could also be organised in B3) with students who participated in the programme in that module.
- 4) Data on performance and transition  
Every year, the CES (Centre for Educational Support) produces standardised overviews of performance and transition.

- 5) Yearly analysis of the results of the NSE (national student survey) and the NAE (national alumni survey)
- 6) Performance appraisals  
Results of activities stated in the first three items are brought to the attention of chair holders, to allow them to address these issues in their annual performance appraisals with all employees.
- 7) Educational Professionalisation  
Members of the scientific staff must have a University Teaching Qualification (Basis Kwalificatie Onderwijs) or given the opportunity to acquire/maintain this qualification.
- 8) Occasional activities  
If necessary, in addition to the activities mentioned above, further assessments are carried out (such as assessment of facilities, how time is spent, exit evaluations, surveys among alumni, etc.)

## COMPLAINTS

Complaints about the (organisation of the) programme can be sent to the programme director, the programme coordinator, or the study association. Complaints about the (organisation of) tests, exams and examinations can be sent to the Examination Board. An objection against a decision by the Examination Board or by an examiner or an appeal against a decision by the Faculty Board based on these Regulations must be submitted in writing within six weeks after the decision has been communicated to the student. The objection has to be submitted to the objections, appeals and complaints office via the Student Services desk.

## ANNEX 2. TRANSITION REGULATIONS

- 1) For students who started before 2012, the programme described in the Programme Specific Appendix Civil Engineering from 2012 applies, including any applicable transition regulations. The most recent transition regulations are listed in appendix B of the Programme Specific Appendix Civil Engineering 2019-2020 which can be found on the CE website (<https://www.utwente.nl/en/ce/rules-and-procedures/students-charter/archive-eer/>).
- 2) For students who started between 2012 – 2019, the transition regulations to TOM2.0 apply. This means that students have the right to retake the module or the study unit in 2022-2023 under the same conditions that were in place for the module or study unit in 2019-2020.
- 3) Practicals will be valid permanently, if passed, even though they are part of a study unit:
  - a. Concrete practical in Module 1
  - b. Case Calculus 1A, Calculus 1B, Linear Algebra, Calculus 2
- 4) If a student failed a study unit in a module before the introduction of TOM 2.0 in 2020-2021, he must request the Examination Board to retake just that study unit in 2022-2023 (and prolong the validity of the other results).
- 5) For students who already have permission to extend the validity of a result with one year applies that the passed study units (which are registered with a separate course code in 2022-2023) remain valid permanently.
- 6) Module 6 was an integrated module in 2020-2021. Students who failed one part of the module in 2020-2021 do not have to retake the entire module in 2022-2023, but only the failed part. The following rules apply:
  - a. Students who failed Environmental and social sustainability in 2020-2021 have to retake Study Unit 202100171 Environmental and Economic Sustainability only;
  - b. Students who failed Design strategy in 2020-2021 have to retake Study Unit 202100169 Design Strategy and Sustainable Civil Engineering Project only;
  - c. Students who failed Structural mechanics in 2020-2021 have to retake Study Unit 202100170 Structural Mechanics only;
  - d. Students who failed Social sustainability in 2020-2021 have to retake Study Unit 202100172 Social Sustainability only;
  - e. Students who failed Energy use in the built environment in 2020-2021 have to retake Study Unit 202100173 Energy only.
- 7) Results remain valid indefinitely in case a study unit is passed. Otherwise a study unit needs to be redone completely, except for practicals. **Results obtained in 2019-2020 printed bold in the table below**, will remain valid in 2022-2023. The validity of these study units is extended automatically.

	BLOCK 1A		BLOCK 1B		BLOCK 2A		BLOCK 2B	
B1	Module 1 - 20190076	EC	Module 2 - 201800152	EC	Module 3 - 201800429	EC	Module 4 - 201800507	EC
	Introduction to Civil Eng.	15	Water Management	15	Traffic and Transport	15	Designing Constructions	15
	Mathematics A + B1	4	Calculus 1B	3	Traffic & Transport Theory	5	Professional Skills**	0
	Construction Materials	1	Fluid Mechanics 1	2	Traffic & Transport Project	7	Calculus 2	3
	Structural Mechanics 1	3	Water	2.5	Linear Algebra	3	Structural Mechanics 2	3
	Fundamentals of Civil Eng.	1	Policy Processes	1.5			Project Design of Constructions	4.5
	Matlab	0.5	Project Water Management* - Matlab*	5			Integral Test	4.5
	Civil Eng. Design Project	5.5	Measurements in Fluid Mechanics	1				
B2	Module 5 - 201700181	EC	Module 6 - 201800169	EC	Module 7 - 201900232	EC	Module 8 - 201400147	EC
	Safety and Risk in Delta's	15	Sustainable Civil Eng.	15	Area Development	15	Mod. & analysis of stoch. Proc.	15
	Vector Calculus	2	Design, Engineering & Materials Engineering for Sustainable Development		Project Area Development	7	Tr. Flow Dynamics and Simulation	5
	Fluid Mechanics 2	2	[module 6 must be passed completely!]		Practical GIS	2	Project Micro Simulation Tr. Flow Simulation and Heuristics	1.5 3
	Soil Mechanics	2			Spatial Policy & Law	2	Project Simulation and Heuristics	3.5
	Water Management	3			Stakeholder Analysis & Mngt	2	Multidisciplinary Project	2
	Project Water Safety* - Matlab* - Project*	6			Spatial Economics	2		
B3	Module 9	EC	Module 10	EC	Module 11 - 201500311	EC	Module 12 - 201500312	EC
	Minor	15	Minor	15	Preparation BSc-thesis Civil Engineering	15	BSc-Thesis Assignment Civil Eng.	15
	Minor***		Minor***		Production of Knowledge Thesis Proposal and Evaluation	7.5 7.5	BSc-Thesis	

\* Project in Module 5: students can retake Matlab separately, if project is passed. Credits will be granted if both Matlab and Project are passed.

\*\* Professional Skills (Module 4): sufficient (S)/insufficient (U). This study unit is unconditional and must be sufficient.

\*\*\* Minor: validity of study units in minor modules: see rules for the minor of your choice (check course catalogue, module manual or coordinator of the minor).  
For CE-minors, see FAQ.

- 8) From Academic year 2021-2022, Matlab will be gradually replaced by Introduction to programming in engineering using Python within the BSc CE curriculum (i.e. module 2 and 5). Python will be implemented year-by-year, starting with Python in module 2 in 2021-2022 and in module 5 a year later, in 2022-2023. Every subsequent year an extra class of Matlab will be offered for students who failed Matlab in the previous year. In Academic year 2024-2025 also the pre-master and master will switch to Python. For Academic year 2022-2023, the following rules apply.
- BSc CE students who started with their programme in 2021-2022 or later:** Introduction to programming in engineering using Python in both module 2 and module 5 will be part of their examination programme.
  - BSc CE students who started their programme in 2020-2021 or before** follow(ed) Matlab in module 2 in 2020-2021 and module 5 in 2021-2022.
    - In case a student failed Matlab in module 2, the student should take Introduction to programming in engineering using Python 1 in module 2 instead of Matlab.
    - In case a student passed Matlab in module 2 in 2020-2021, but fails Matlab in module 5 in 2021-2022, has the choice to retake Matlab module 5 in 2022-2023 or replace Matlab module 5 for Introduction to programming in engineering using Python 2 module 5 in 2022-2023. If the student chooses to retake Matlab module 5 in 2022-2023, but doesn't pass this study unit, he is obliged to replace Matlab in module 5 by Introduction to programming in engineering using Python 2 in 2023-2024.

- iii. In case a student has not passed Matlab in module 2 and in module 5 in 2021-2022, he has to replace Matlab by Introduction to programming in engineering using Python 1 and Introduction to programming in engineering using Python 2.
- 9) Transition rules that apply for Module 8: In case a student did not pass all 5 components of the module provided in 2021-2022 or earlier, the following rules apply:
- The M8 theory examination has two parts, which are directly related to 202000083 - Traffic Flow Dynamics and 202000080 - Simulation and Heuristics. A positive result in 2020-2021 for each of these two courses yields dispensation of the corresponding part of the M8 theory examination, i.e. M8T-traffic and/or M8T-construction.
  - A sufficient result for 202000082 - Project Simulation of Traffic Flows, 202000081 - Project simulation and Heuristics and 202000079 - Multidisciplinary Project results in dispensation for the Module 8 project.
  - In all other cases a tailor-made solution will be designed. If students did not pass a project last year, they will be put in a group together and we will then define an assignment for them corresponding to the topic and number of ECs. This will be for one year only.



## ANNEX 3. REGULATIONS OF THE EXAMINATION BOARD

### REGULATIONS OF THE EXAMINATION BOARD

Next to these Education and Examination Regulations the Examination Board formulated rules of conduct and rules applicable to the exams and examinations of the Examination Board for Civil Engineering, as recommended by the Deans of the faculties.

- 1) These Rules and Regulations are applicable to:
  - a. The Bachelor program Civil Engineering
  - b. The Master Civil Engineering and Management
  - c. The Master Construction Management and Engineering
- 2) This document is available at the website of the Examination Board CE/CEM/CME (<https://www.utwente.nl/en/cem/organization/examination-board/>) and at the programmes' website (<https://www.utwente.nl/en/cem/rules-and-regulations/>).