

***Rules of the Board of Examiners for the
Chemical Engineering
Master's Programme***

(Art. 7.12 WHW)

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Reference: TNW160159/bb/vdh

Date: 19 July 2016

Definition of Terms

Paragraph 4 of the general section of the programme part of the student charter, including the education and examination regulations of the master's programmes of the Faculty of Science & Technology (hereinafter the general section of the OER), defines the testing procedures. For the rules of the Board of Examiners the following terms from Art. 1.2 in the general section of the OER apply:

Board of Examiners	The Board of Examiners is the body that objectively and expertly establishes whether a student meets the conditions defined in the education and examination regulations with respect to knowledge, insight and skills required for acquiring the degree of <i>Master of Science</i> .
Examiner	The person who, in line with Article 7.12c of the Higher Education and Research Act (WHW), is appointed by the Board of Examiners for holding the exams and tests, and establishing their results.
Unit of study	A part of a programme as referred to in Article 7.3 sections 2 and 3 of the Higher Education and Research Act. Each unit of study is completed by an exam.
Study Information System (SIS)	The system indicated by the institutional administration for the registration of and information on all relevant data on students and programmes, in the sense of the Higher Education and Research Act.
Exam	An assessment of the student's knowledge, insight and skills, as well as an evaluation of the results of that assessment (Art. 7.10 WHW); an exam may consist of multiple tests.
Test	Part of an exam. If the exam of a unit of study consists of a single test, the result of that test is treated as the result of the exam.
Higher Education and Research Act (WHW)	The Wet op het Hoger onderwijs en Wetenschappelijk onderzoek (WHW), published in Staatsblad 1992, 593 and later amendments.

Article 1 The Board of Examiners

1. From among its members, the Board of Examiners appoints a chairperson and a secretary.
2. The Board of Examiners may be assisted by programme staff, e.g. the programme director, the programme coordinator, the study adviser, and tutors. These parties attend the meeting in an advisory capacity.
3. The Board of Examiners can request the advice of study advisers and other study counsellors regarding decisions to be made concerning individual students; all information provided on students will be treated as confidential.
4. The Board of Examiners can, as far as this is not in conflict with the law or with this regulation, decide to delegate some of its responsibilities, possibly subject to limiting conditions, to the chairperson or the secretary of the Board of Examiners.
5. A staff member of the Centre for Educational Support of the Faculty of Science and Technology (CES-TNW) will attend the meetings of the Board of Examiners as administrator.
6. The meetings of the Board of Examiners are closed to the public. The decisions of the Board of Examiners and the outcome of votes are recorded in the meeting minutes.
7. The Board of Examiners uses a set of rules which define (1) the composition, (2) the working methods, (3) delegation of responsibilities to the chairperson and the secretary, and (4) the division of duties with respect to testing.

Article 2 Examiners

1. For the purpose of holding the exams and tests, the Board of Examiners appoints one or more examiners for each unit of study. Only staff members who teach as well as non-university experts can be appointed as examiners (WHW Art. 7.12). If there is more than one examiner, one of them is appointed as the responsible examiner. The responsible examiner determines the result of the exam for the entire unit of study (elaboration of 7.12c section 1).
2. The chairperson of the Master's final project committee acts as the responsible examiner for the Master's final project.
3. The examiners will provide the Board of Examiners with the requested information (WHW Art. 7.12c section 2).

Article 3 Contents and form of exams and test format

1. Before an examiner holds a written test, at least one other qualified lecturer assesses whether the proposed test is sufficiently representative, whether the questions have been clearly stated, and whether the level of difficulty is in accordance with the programme.
2. The description in the course catalogue defines whether the final assessment of a subject is in writing, oral or by means of another method.
3. The assigned examiner may decide to deviate from the provisions in sections 1 and 2 of this article, in favour of the student.
4. The student can request another testing method from the Board of Examiners than the method determined in the second section of this article.

Article 4 Written and oral tests

1. A written test has a maximum duration of 3 hours; the maximum for an oral test is 1.5 hours. Deviation from this rule is possible in the case of students with a disability, in line with Article 7.1 of the general section of the (MSc) OER.
2. Written tests are assessed on the basis of pre-defined standards for the various assignments or partial assignments of the test. The student is informed of the maximum score for each assignment in a written test by adding this information to the assignment in the test.
3. Oral testing is open to the public. This is subject to the provisions in Article 4.4 sections 2 and 3 of the general section of the (MSc) OER.
4. The examiner cannot hold an oral test for more than one student at a time, unless agreed otherwise in consultation between the examiner and the students involved. In the case of a project-led course, joint oral testing of a group of students is possible.
5. An examiner who wants to offer students an additional test opportunity requires the permission of the Board of Examiners (Article 4.3 section 3 of the general of the OER). The Board of Examiners has delegated the authority to make this decision and to determine a suitable moment in the timetable to the programme director. The programme director must inform the Board of Examiners of his decision during the next exam meeting.

Article 5 Order during test sessions

1. For each written test, the responsible examiner assigns one or more invigilators who will ensure that the testing session takes place in an orderly fashion.
2. Only students who have registered for a particular test are entitled to take the written test.
3. All electronic equipment and applications must be switched off during the test session, with the exception of the use of equipment and applications for which the examiner has explicitly given permission.
4. During a test, students must be able to identify themselves upon request by means of a proof of enrolment (student ID).
5. At the start of the test, the student writes his/her name and student number on all test materials.

Article 6 Fraud

1. Fraud is defined as follows:
 - a. The use of more or other materials during a test than those mentioned by the examiner as permitted prior to the start of the test.
 - b. The use of materials or assistance or the offering of materials or assistance during a test of which the student knows (or should have known) that this is not permitted. This includes, among other things:
 - i. Cheating during a test, whether or not:
 - by the use of unauthorised materials, such as: books, notes, electronic devices
 - copying from others or allowing others to copy
 - communicating on the test matter with persons other than the invigilators, before handing in the test
 - ii. Forgery.
 - c. Behaviour that the examiner has announced, prior to the exam, will be regarded as fraud, and for which measures have been stated that will be taken should such behaviour occur.
 - d. Plagiarism.
2. The examiner and/or the department must always inform the Board of Examiners of any possible case of fraud. The Board of Examiners can, after consulting all parties involved, decide to take suitable measures.
3. If a student or external student has committed fraud, the Board of Examiners can revoke that person's right to take one or more tests, examinations or final examinations to be indicated by the Board of Examiners, for a period to be defined by the Board of Examiners, for a maximum of one year. In case of serious fraud, the institutional administration can, by recommendation of the Board of Examiners, permanently terminate the student's enrolment (WHW Art.7.12b section 2). The student will not receive any assessment for the subject unit in which the fraud occurred.
4. If a student is allowed to take an exam for the subject unit after fraud has been established, the Board of Examiners can impose the manner of testing of the relevant subject.

Article 7 Rules in the event of an emergency

1. The Executive Board, or the building manager on their behalf, establishes whether there is an emergency or imminent emergency.
2. Once this has been established, (a part of) the building is evacuated in compliance with the corresponding rules that are in force.
3. The Board of Examiners is informed by the examiner within one day of the emergency, as stipulated in clause 1.
4. If an emergency situation occurs or is imminent, during or shortly before an examination, the following applies: if a crisis situation is imminent before the start of an examination, the examination is immediately postponed. In consultation with the Board of Examiners, the head examiner sets a new examination time and date. The new examination time and date that has been set within a month (not including holidays) is binding. This is published via the usual means of communication within three workdays after the building has been re-opened.
5. In the event of an emergency or an expected emergency during a test, the following procedure applies:
 - a. The student's name and student number must be stated by students on all examination work (at the beginning of the test).
 - b. Those present must immediately leave the test room, on instruction of the responsible authority or the supervisor.
 - c. All students leave all their test material behind in the test room.
6. The Board of Examiners is responsible for concluding a test that was interrupted or postponed due to an emergency or imminent emergency.
7. The Board of Examiners may determine that the lecturer, if this is reasonably possible, determines the final grade on the basis of the (partially) completed work that was handed in, if the students were able to start work on the test.
8. In the event that the Board of Examiners, on the grounds of clause 7, rules that the lecturer cannot determine a final grade, a re-take of the examination interrupted by the emergency situation will be organised for the affected students within a month (excluding holidays) of the crisis situation, provided the aforementioned students had registered for the examination in question.

Article 8 Registration and publication of the examination results

1. Only the examination result is included in the programme information system. If an examination consists of more than one test, the examiner saves the test results in his/her own administration. For these test results, no assessment, as referred to in sections 4, 7 and 8 of this article, is drawn up. The students will be informed of their results by the examiner, observing the students' privacy.
2. If a unit of study is assessed by more than one examiner, the responsible examiner makes sure that all of the examiners use the same standards for assessment.
3. If the assessment of a written examination results in a grade 5, the student may request to have the work assessed by a second examiner. If, after consultation between the two examiners, the assessments still differ, the grade will be the average of the two assessments.
4. Examination grades are normally expressed as a number between 1 and 10. These grades have the following meaning:

1: very poor	4: fail	7: a distinct pass	
2: poor	5: almost a pass	8: good	
3: a distinct fail	6: pass	9: very good	10: excellent
5. Grades obtained at other universities in the Netherlands are accepted. These are rounded when necessary, or expressed in natural numbers, as listed under section 4.
6. Grades obtained at foreign institutions are not accepted. The units are marked as passed ('V').
7. Exemptions for a unit of study are indicated on the list of marks and in the study information system with 'VR'.
8. If a student has received multiple assessments for the same unit of study, the highest grade is used.

Article 9 Free programme

Contrary to the provisions in articles 5, 7 and 8 of the programme-specific appendix, a student can be admitted to taking the master's examination on the basis of a course list/curriculum proposed by the student (a free master's programme in line with WHW Art. 7.3d), provided that this course list is approved by the Board of Examiners. The following minimum requirements apply for this:

- The total programme scope is 120 EC.
- The master's final project has a nominal study workload of at least 45 EC.

Article 10 Examination results

1. Students who meet all of the following conditions have passed the master's examination (WHW Art. 7.10 section 2):
 - All examination elements of the programme have been assessed.
 - None of the examination elements have been assessed with a grade lower than 6.
2. The Board of Examiners determines on which day the examination results of the master's examination are dated. This is normally the date of the last unit of study that was passed.
3. A student has the right to submit a substantiated written request to the Board of Examiners to delay the graduation date and consequently the presentation of the certificate (WHW Art.7.11 section 3, OER Art. 5.2 section 3). In this request the student must at least indicate the desired duration of the delay. In case the student requests for a delay of the final examination, the new graduation date will be determined by the Board of Examiners. The student will be informed of the possibility to postpone the official passing of the examination in a confirmation letter he/she receives when the 'MSc final project contract and course list Chemical Engineering' has been handled by the Board of Examiners. The request must be submitted together with the 'Application form for MSc colloquium Chemical Engineering'.
4. The provision in section 1 of this article also applies in case of a free master's examination as outlined in Article 9 of these rules.

Article 11 Exceptional ability

During the graduation ceremony, the master's certificate may be issued with the designation 'cum laude'. For this, the Board of Examiners assesses all results during the full master's programme, using the following minimum conditions for qualifying for the designation 'cum laude':

- a. The average grade for the elements of the master's final project is 9 or higher.
- b. The average grade for the other parts of master's examination is 8 or higher.
- c. The grade for no more than one subject unit was 6.
- d. The student has completed his/her master's programme within a maximum of three years.

Article 12 Choice of Master's course list and graduation procedure

1. If a student has decided with which chair he/she wishes to do his/her final project, he/she formulates in consultation with the professor of the chair (the final project professor) a proposal for the final project and he/she discusses the content of his/her course list. The course list requires authorization by the final project professor.
2. The final project professor will put together the master's final project committee in line with Article 13 of these rules, within four weeks after the student has requested this.
3. The final project professor formulates the final description of the master's final project, in consultation with the student.
4. If the chair where the student wants to do his/her master's final project is temporarily without a professor, the Board of Examiners determines who will take over the duties of the final project professor, in line with Article 13 of these rules.
5. The student enters the following information on the form 'MSc final project contract and course list Chemical Engineering' and the included appendixes:
 - The composition of the master's final project committee.
 - The final description of the master's final project.
 - The course list including results obtained.
 - If applicable, an overview of the units of study that have not yet been completed and a schedule for their completion.
 - A graduation contract including the planned final project start and finish dates, the interim appraisal and interim report dates.

This form can be downloaded from the programme's website.

6. The form, signed by the student and the chairperson of the master's final project committee, requesting approval of the final project, the composition of the course list, and the planning for the final project and any units of study that still need to be completed, must be submitted to the Board of Examiners (c/o CES-TNW) at least one month before the date the student intends to start the final project.
7. The Board of Examiners will reach a decision within ten working days after receipt of the 'MSc final project contract' plus digital appendixes by CES-TNW-CHE.
8. The student will be informed of the decision in writing. All member of the master's final project committee will receive a copy of the decision. If the Board of Examiners does not reach a decision within four weeks after receipt of the request mentioned in section 5 of this article (excluding holidays indicated in the timetable), the proposal is deemed to have been approved.
9. The student is not allowed to start the master's final project prior to approval by the Board of Examiners, in line with section 8.
10. The chairperson of the master's final project committee is responsible for proper realisation of the master's final project procedure. He/she must ensure that the master's final project agreement is adhered to, which includes an evaluation by the daily supervisor and the student at least once every fortnight, to discuss progress and the direction of the final project.
11. For the purpose of, among other things, assessment of the master's final project, the student submits a report on progress, the process and the results to the final project committee. The final project report must be written in English.
12. The student defends the master's final project report in a colloquium before the final project committee. The colloquium is open to the public and must be held in English.
13. No later than four weeks prior to the planned date of the colloquium, the student must complete and submit the form 'Application form for MSc colloquium Chemical Engineering' to the Board of Examiners (c/o CES-TNW).
14. The master's final project will be assessed by the final project committee and the assessment will be documented in the 'Master's final project Chemical Engineering assessment form'. The grades stated in this form must be in line with, and must be substantiated by, an assessment in words. If the final project is assessed with an average grade for the two parts of either a 6 or a 9 (or higher than a 9), the final project committee must include a separate justification for the grade on the assessment form.

Article 13 Master's final project committee

1. A master's final project committee is appointed for the supervision and assessment of the final project. The final project professor is responsible for appointing the committee:
2. The master's final project committee consists of at least three members. The committee must meet the following conditions:
 - The committee is chaired by the professor of the chair in which the student is doing his/her final project.
 - The student's daily supervisor during the master's final project is a member of the committee.
 - The student's daily supervisor is a member of the permanent or temporary academic staff of the aforementioned chair.
 - If the daily supervisor is a PhD student, the staff member who is the supervisor of the PhD student must also be a member of the committee.
 - At least one member of the committee must be a member of the permanent academic staff of another chair in the technical domain at the university where the final project is carried out.
3. Academic specialists from outside the Chemical Engineering department or outside the university can be members of the final project committee.
4. The master's final project can be carried out at another university or research institute, provided that one of the professors of the Chemical Engineering discipline is willing to act as supervising professor.
5. If the final project is carried out at another university or research institute, a representative of that organisation must be involved in the final project committee, as an advisor or as an academic member.
6. The composition of the master's final project committee must be approved by the Board of Examiners.

Article 14 Internship procedure

1. All internships are coordinated by the internships office of the Faculty of Science & Technology.
2. The internship will be with a relevant external company, research institute or university, according to the rules set out in Article 5 of the programme-specific appendix to the master OER.
3. The contents of the internship assignment must be approved beforehand by a member of the academic staff of the Chemical Engineering department. He/she will also act as the supervisor for the University of Twente.
4. The internship assignment will be assessed by a member of the academic staff involved in the Chemical Engineering programme, in consultation with the local supervisor.

Article 15 Effectuation

These regulations will come into effect on 1 September 2016 and replace the regulations dated 8 December 2015.

Established by the Board of Examiners for Chemical Engineering,

Enschede, 19 July 2016