

***Rules of the Examination Board  
for the Nanotechnology  
Master's Programme***

***(Art. 7.12 WHW)***

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## 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 EER), defines the testing procedures. For the rules of the Examination Board the following terms from Art. 1.2 in the general section of the EER apply:

Canvas	The digital learning management system of the University of Twente;
Exam	An evaluation of the knowledge, understanding and skills of the student, as well as the assessment of the results of this evaluation (Article 7.10 of the WHW); an exam may consist of a number of tests;
Examination Board	The body that establishes objectively and expertly whether a student meets the criteria set in the education and examination regulations regarding knowledge, insight and skills needed for obtaining the degree of <i>Master of Science</i> ;
Examiner	The individual who has been appointed by the Examination Board in accordance with article 7.12c of the WHW to hold exams and tests and determine their results;
Final examination:	A programme concludes with a final examination. A final examination is deemed successfully completed if the study units belonging to a programme have been completed successfully;
Test	An evaluation of the knowledge, understanding and skills of the student, as well as the assessment of the results of this evaluation. A test is a part of an exam. If a study unit has only one test, this coincides with the exam for the unit in question;
Study unit	A component of the programme as described in Article 7.3, paragraphs 2 and 3 of the WHW. Every study unit concludes with an exam;
WHW	The Higher Education and Research Act (WHW), in the Dutch Bulletin of Acts and Decrees 1992, number 593, and as amended since.

### Article 1 The Examination Board

1. From among its members, the Examination Board appoints a chairperson and a secretary.
2. The Examination Board 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 Examination Board 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 Examination Board 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 Examination Board.
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 Examination Board as administrator.
6. The meetings of the Examination Board are closed to the public. The decisions of the Examination Board and the outcome of votes are recorded in the meeting minutes.
7. The Examination Board 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 Examination Board appoints one or more examiners for each study unit. 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 study unit (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 Examination Board 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 Examination Board 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 case of students with a functional impairment, in accordance with Article 7.1 of the general section of the (MSc) EER.
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) EER.
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 Examination Board (Article 4.3 section 3 of the general section of the EER). The Examination Board 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 Examination Board of his decision during the next meeting of the Examination Board.

## **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 Examination Board of any possible case of fraud. The Examination Board can, after consulting all parties involved, decide to take suitable measures.
3. If a student or external student has committed fraud, the Examination Board can revoke that person's right to take one or more tests, examinations or final examinations to be indicated by the Examination Board, for a period to be defined by the Examination Board, for a maximum of one year. In case of serious fraud, the institutional administration can, by recommendation of the Examination Board, 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 Examination Board 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 Examination Board 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 Examination Board, 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 Examination Board is responsible for concluding a test that was interrupted or postponed due to an emergency or imminent emergency.
7. The Examination Board 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 Examination Board, 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 study unit 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. Exam results of a study unit are expressed in half grades from 1.0 up to and including 5.0 and from 6.0 up to and including 10.0. These grades have the following meaning:

1, 1.5: very poor	4, 4.5: fail	7, 7.5: a distinct pass	
2, 2.5: poor	5: almost a pass	8, 8.5: good	
3, 3.5: a distinct fail	6, 6.5: pass	9, 9.5: very good	10: excellent
5. Exam results obtained at other universities in the Netherlands are accepted. These are rounded when necessary to 0.5, with the exception of 5.5 as listed under section 4.
6. Exam results, if satisfactory, obtained at foreign universities will be registered as a 'P' (Pass).
7. Exemptions for a study unit are indicated on the list of marks and in the study information system as exemption with 'EX'.
8. If a student has received multiple assessments for the same study unit, the highest grade is used.

## **Article 9 Free programme**

Contrary to the provisions in articles 5 and 6 of the programme-specific appendix, a student can be admitted to taking the master's examination on the basis of a package of examination units proposed by the student (a free master's programme in line with WHW Art. 7.3h), provided that this package is approved by the Examination Board. 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 The master's final examination**

1. Students who meet all of the following conditions have passed the master's final 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 Examination Board determines on which day the examination results of the master's final 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 Examination Board to delay the graduation date and consequently the presentation of the certificate (WHW Art.7.11 section 3, EER 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 Examination Board. 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 assignment contract and course list' has been handled by the Examination Board. The request must be submitted together with the 'Application form for MSc colloquium'.
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 classification 'cum laude'. For this, the Examination Board assesses all results during the full master's programme, using the following minimum conditions for qualifying for the classification 'cum laude':

- The average non-weighted grade for the elements of the master's final project is an unrounded 9 or higher.
- The average grade for the other parts of the master's examination is an unrounded 8 or higher.

## **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 Examination Board 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 assignment contract and course list' and the included appendixes:
  - The composition of the master's final project committee.
  - A brief description of the master's final project.
  - The planned start date, midterm evaluation and end date of the final project.
  - The course list, including grades up to that date.
  - If applicable, an overview of the units of study that have not yet been completed or still have to be attended.

This form can be downloaded from the Canvas website: Programme information Nanotechnology.

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 Examination Board (c/o CES-TNW) at least one month before the date when the student intends to start the final project.
7. The Examination Board will reach a decision within four weeks after receipt of the request (holidays in the timetable excluded).
8. The student will be informed of the decision in writing. The chairperson of the master's final project committee will receive a copy of the decision. If the Examination Board does not reach a decision within four weeks after receipt of the request mentioned in section 7 of this article (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 Examination Board, in line with section 6 or 7.
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 agreements documented in the master's final project contract are adhered to, which includes an evaluation by the daily supervisor and the student at least once every fortnight. During the midterm evaluation, the master's final project committee discusses the acquisition of information, the problem analysis, progress and the direction of the final project with the student.
11. The chairperson of the master's final project committee is responsible for having the final report checked for plagiarism. The reports on plagiarism may be requested by the Examination Board.
12. 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 master's final project committee.
13. The student defends this report in a colloquium before the master's final project committee. The colloquium is open to the public.
14. 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' to the Examination Board (c/o CES-TNW).
15. The master's final project will be assessed by the master's final project committee and the assessment will be documented in the 'Master assignment Nanotechnology assessment form'. The grades stated in this form must be in line with, and must be substantiated by, an assessment in words.

### **Article 13      Master's final project committee**

1. A master's final project committee is appointed for the supervision and assessment of final project.
2. The master's final project committee consists of at least three members. The committee must meet the following conditions:
  - The chairperson is full professor or associate professor with "ius promovendi" in the chair in which the student is doing his/her master's final project.
  - The student's daily supervisor during the 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 above chair.
  - At least one member of the committee must be a member of the permanent academic staff of another Nanotechnology chair than the chair where the master's final project is carried out.
3. Academic specialists from outside the university can be members of the master's final project committee.
4. The final project can be carried out at another university or research institute, provided that one of the professors of the Nanotechnology discipline is willing to act as supervising professor.
5. If the master's final project is carried out at another university or research institute, a representative of that organization must be involved in the master's final project committee, as an adviser or as an academic member.
6. The composition of the master's final project committee must be approved by the Examination Board.

### **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 EER.
3. The contents of the internship assignment must be approved beforehand by a member of the academic staff of the Nanotechnology programme. 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 Nanotechnology programme, in consultation with the local supervisor.

### **Article 15      Effectuation**

These regulations will come into effect on September 1<sup>st</sup> 2020 and replace the regulations dated June 19<sup>th</sup> 2019.

**Established by the Examination Board for Nanotechnology,**

Enschede, June 17<sup>th</sup> 2020.