

UNIVERSITY OF TWENTE.

Education and Examination Regulations

Master Mechanical Engineering

2023-2024

PREFACE

The Master Mechanical Engineering (ME) programme has chosen to embed the Education and Examination Regulations within the programme-specific part of the Student Charter on the basis of Article 7.59 of the [Dutch] Higher Education and Research Act (WHW).

This document presents the rules (rights and obligations) of the programme and students with regard to education and examinations. These rules apply to all students, but individual students have the right to submit a request for an alternative programme. Also, the Programme Director can decide to take a general or individual action that deviates from the regulations, provided that it's not to the disadvantage of the student(s).

For general information, reference is made to the 'Student Charter of the UT, the institution-specific part'. For special possibilities within the study programme, reference is made to the education page of the Master's programme in [Mechanical Engineering](#) and, for information about course content, to the [Educational Catalogue](#), whenever necessary.

The Master Mechanical Engineering Education and Examination Regulations apply to all ME students. The programme is provided within the faculty of Engineering Technology (ET) at the University of Twente (UT) in Enschede.

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ARTICLE 1. GENERAL CONDITIONS

1.1 Applicability of the regulation

1. This regulation applies to the education and the examinations of the master's programme in 'Mechanical Engineering' at the University of Twente, hereafter called: the programme.
2. The 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 admission and assessment with the Examination Board of the programme. A student who doubts whether he has been treated in conformance with the regulations can ask the programme director for clarification. It is always possible to appeal against a decision that has been taken via the UT Complaints Desk.

1.2 Definition of terms

Academic year	The period that begins on 1 September and ends on 31 August in the following year
Admission Committee	The Admissions Committee is appointed by the Dean (Article 7.30 WHW).
Assessment plan	A plan indicating how the testing of a course is organised. At first, it states the grading of the study units of the course, and secondly, the conditions for passing the course (including possible compensation rules within the course).
Assignment	Carrying out a design or a research project
BOZ	Educational Affairs Office, Engineering Technology (Mechanical Engineering), within Centre for Educational Support (CES)
Canvas	The digital learning management system of the University of Twente
Colstruction	Combination between a lecture and a practical
Compulsory Holiday	Compulsory day free of work
Course	A component of the study programme to which a course code is assigned. Courses may contain one or several study units
CPO	Personal Circumstances Committee. A committee formed by the institutional board that issues advice to the programme board in individual cases concerning the validity, term and seriousness of the personal circumstances of the student involved
Curriculum	The entirety of compulsory and optional study units belonging to the programme.
Dean	The Dean of the Faculty of Engineering Technology
EC	A unit of 28 hours of study workload, in accordance with the European Credit Transfer System, a full academic year consisting of 60 EC or 1680 hours (Article 7.4 WHW).
Essay	A written report about a theoretical or practical project/assignment
Exam	An evaluation with a study unit 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 several tests.

Examination	An inquiry into the knowledge, the insight and the skills of a student relating to a particular unit of education, as well as the assessment of that inquiry by at least one examiner designated by the Examination Board for that purpose
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 a degree (Article 7.12 WHW).
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.
Exemption	Establishing by the examination board that a student has acquired competencies, i.e. on account of exams or final examinations in the higher education domain passed earlier, or knowledge or skills acquired outside the higher education domain, that are comparable in content, size and level to one or more study units or parts thereof
Faculty	The Faculty of Engineering Technology (ET), University of Twente
Faculty Board	Head of the faculty (Article 9.12 WHW).
Graduation examination	An evaluation by which the Examination Board determines whether all examinations of the courses belonging to the programme have been passed (Article 7.10 WHW)
HBO	University of Applied Sciences
Institution	The University of Twente (UT)
Institution Board	The Executive Board of the University of Twente
Internship	Assignment carried out in a company or scientific environment to (among others) become acquainted with the future field of the mechanical engineering student as well as with a mechanical engineering problem or task in a professional manner and as part of a team of engineers in a corporate environment
Learning outcomes	The qualities regarding the knowledge, insight and skills a student must have acquired upon completion of the programme
Lecture	A plenary meeting for the students which is intended to convey information
Literature study	The undertaking of literature research into specified scientific phenomena
ME	Mechanical Engineering; this qualification prefixing, for example, student, programme, examination, etc. is in many cases in this Charter hereafter omitted in the interests of readability.
OSIRIS	System designated by the institutional board for registration and for providing information on all relevant data related to students and the university, as described in WHW.

Partner Institution	An institution with which the university has a structural relationship for collaboration, in which the programme is active. For example the 4TU federation and the ECIU ¹ -network (http://www.eciu.org/)
Practical exercise	A practical exercise as intended in Article 7.13 paragraph 2 subparagraph d of the [Dutch] law. This is understood to mean participation in an educational activity designed to master certain skills, such as completing written work or a prototype design, carrying out of tests and experiments, and participating in fieldwork or an excursion
Pre-Master	The pre-masters programme is a transfer and bridging programme for Universities of Applied Sciences (HBO) or University Bachelor programme students who wish to obtain a university master's degree, but who cannot be admitted directly.
Programme	The Mechanical Engineering programme (ME), University of Twente
Programme Board	The committee charged by the faculty board with managing the programme. This may also be a person. In this case, the term programme director is used.
Programme Director	The programme director of the ME programme
Project	A design or a research assignment carried out as a team or individually
Quartile	A quarter of an academic year
Seminar	A meeting for a subgroup of the population to offer students the opportunity to work through the learning materials (also supervised self-study).
Student	A person who is registered as a student at the University of Twente for the following of education and/or the taking of examinations of the 'Mechanical Engineering' programme, and who has completed the payment of (legal) tuition fees (Articles 7.32 and 7.34, WHW).
Study Adviser	Person appointed by the faculty board who acts as a contact between the student and the programme, and as such represents the interests of the students, as well as fulfilling an advisory role.
Study load	The amount of time an average student needs to capture the learning material. The study load comprises for instance project work, self-study, lectures and writing papers. The study load is expressed in credit points in accordance with the European Credit Transfer System.
Study tour	A trip made for the purpose of study and/or carrying out research
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.
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
Tutorial	A meeting for students who work on exercises guided by a lecturer
Website	www.utwente.nl/me

¹ European Consortium for Innovative Universities

WHW	The Higher Education and Research Act (WHW), in the Dutch Bulletin of Acts and Decrees 1992, number 593, and as amended since.
Working day	Any day from Monday to Friday except official holidays and the prearranged compulsory holidays on which the staff is free

Any terms not defined here have the meaning assigned to them by the WHW.

ARTICLE 2. ADMISSION

2.1 Requirements for previous education

1. Admission to a master's programme can be achieved in several ways:
 - a. Bachelors from the UT, UT/VU, TUE and TUD holding a university bachelor's degree in mechanical engineering are admissible;
 - b. University bachelor's degrees from related subjects or programmes: bachelors of a number of adjoining subjects are admissible, in many cases under the condition that a certain supplement of the bachelor's programme is undertaken (for example, a pre-master programme) and that a certain graduation specialisation is chosen. Admission from other University of Technology programmes is determined in the admissions matrix: <https://www.utwente.nl/en/education/master/admission-requirements/dutch-university/>
In all these cases there is an individual adaptation of the programme;
 - c. Bachelor of Science degree from a university abroad which is equivalent to the Dutch WO Bachelor's degree in the field of mechanical engineering and/or aeronautical engineering can be admitted when the additional requirements (including the language requirements) are met;
 - d. With a successfully completed pre-masters programme (see 2.3).
2. Students who, after a further assessment of the pre-masters programme, have been admitted to the master's programme in mechanical engineering of one of the other Dutch Universities of Technology are admissible to the programme at the UT. Students who have been rejected after not successfully completing the pre-master at the other Dutch Universities of Technology are also not admitted to the programme at the UT.

2.2 Additional requirements for students with a non-Dutch qualification

Students with a foreign diploma must show they have sufficient command of the English language.

These requirements can be found here: <https://www.utwente.nl/en/education/master/admission-requirements/language/>

2.3 Pre-Master programme

1. Bachelors from a University of Applied Sciences (HBO) in the Netherlands in construction and engineering subjects can be admitted to the pre-masters programme. Admission of others is at the discretion of the Admission Committee.
2. The pre-master programme consists of a selection of courses from the bachelor programme with an emphasis on physics and mathematical courses.
3. The pre-master programme consists of 30 EC. Those entering from a University of Applied Sciences who have considerable industrial experience are not allowed to do an internship in the master's programme. Instead of an internship, they are required to follow remaining pre-master courses.
4. A student will be admitted to the master programme when the agreed upon pre-master programme is successfully completed within one year after registration, at most one 5 is accepted in the pre-master.
5. A student who failed the ME pre-master programme is not eligible for another pre-master programme at the ET faculty in any following academic year.
6. A student who failed the ME pre-master programme at one of the three mechanical engineering programmes in the Netherlands will be not admitted to the ME pre-master programme at the University of Twente in any following academic year.

2.4 Following master courses by non-master students

A student has the right to follow education and/or take examinations related to the master programme, provided he has satisfied the legal regulations in force. Where someone has not (completely) met these requirements and at that moment still takes part in the education and/or examinations, this is regarded as irregular. Where applicable, the relevant registered student data can be removed from the administrative records and does not count for student progress nor student grants and loans.

Additional conditions can be placed on participation in the various educational activities and examinations.

ARTICLE 3. VISION OF THE PROGRAMME

3.1 Aims of the programme

The master's programme offers to students the possibility to develop themselves into a professional prepared for the work field who is able to adapt to future developments in that particular field. In addition, the master programme enables students to distinguish themselves by specializing in a particular content field within Mechanical Engineering while at the same time having the opportunity to build up a broad and multidisciplinary profile. The programme is offered in a teaching and learning environment stimulating personal contact between students and staff and good communication and cooperation between learners, using interactive teaching methods and maintaining a strong link to professional practice.

The Master's programme in Mechanical Engineering has the following intended learning outcomes:

- a. Advanced level of knowledge within at least one sub-disciplines (*Mechanics of Materials, Fluid Dynamics, Energy Technology, Control Engineering and Dynamical Systems, Design & Production*) and the ability to apply this knowledge in design and research in this area
- b. Ability to design and conduct experiments, to develop models and simulations
- c. Ability to identify, formulate and solve engineering problems by designing and development of innovative solutions, including evaluating the feasibility
- d. Ability to integrate theory and practice from a range of sub-disciplines
- e. Ability to use the techniques, skills and modern engineering tools, whenever relevant for engineering practice
- f. Ability to design a system, component or process to meet desired needs, within defined boundary conditions
- g. Ability to communicate effectively with professionals about their work and its relevance and possible impact in varying contexts
- h. Ability to work independently on a design or research assignment
- i. Insight into the complex working of modern industrial organisations
- j. Ability to decide about the first step in their professional career
- k. Attitude and ability to maintain and improve academic and professional competence (life-long learning)

3.2 Purpose of the master

The programme provides education up to the Master of Science in 'Mechanical Engineering'. Mechanical engineers are busy with generating ideas, designing, analysing and producing products, processes and systems. This can involve new concepts or the improvement and adaption of already existing concepts. Mechanical Engineers have wide-ranging tasks within technical design teams. Within a design team, they are the subject specialist, the integrator and also often the leader of the team or project. A multidisciplinary approach is often necessary to arrive at a solution. In the Bachelor programme, each student has become acquainted with the full breadth of the subject domain. During the master programme, the students have the opportunity to deepen their competencies. The first year of the MSc programme is dedicated to courses, whereas the second year consists of an internship and graduation project. Within the master programme, each student composes their unique programme with a specialisation, in which core courses are done and a range of electives that can be freely chosen. Seven specialisations can be distinguished in the curriculum.

Students choose one of the specialisations offered by the various departments of the Faculty. The specialisations are:

- Aeronautics (AERO)
- Design and Manufacturing (DM)
- Energy and Flow (EF)
- High-Tech Systems and Materials (HTSM)
- Maintenance Engineering and Operations (MEO)
- Personalised Health Technology (PHT)
- Smart Sustainable Industry (from February 2024)

The theoretical part of the master's programme is covered by core courses from the specialisation and electives that can be freely chosen. The master assignment (and preferably also the internship) is in the area of the specialisation.

The theoretical part (courses) is followed by an internship and the master's assignment. The main objective of the internship is to put acquired knowledge and skills into practice in a real professional engineering environment. The trainee engineer can participate in research, design, development or production activities. During this internship, the student works independently (or in a team of researchers) on a real problem. The assignment is carried out in a company or scientific environment in order to (among others) become acquainted with the future field of mechanical engineering by working on a mechanical engineering problem or task in a professional manner and as part of a team of engineers in a corporate environment

The master assignment is carried out under the responsibility of one of the research groups within the faculty. In this assignment, the student shows that he is qualified to make a contribution to the field of mechanical engineering.

The specialisation and elective courses can be found on the website:

https://www.utwente.nl/en/me/master_programme/programme-information/#profiles

3.3 Organisation of the programme

The Master's programme Mechanical Engineering is only provided as a full-time programme. The study load of the programme involves a minimum of 120 EC.

Within the programme, each student composes their programme within which a specialist area is recognisable. The student chooses 30 EC of core courses and 30 EC of elective courses. In the elective courses there is an option for an interdisciplinary focus: a maximum of 3 courses outside of the ME MSc curriculum*. Within the elective courses, 5 EC can be used for courses that are part of the preparation for the study tour. Any additional EC of the study tour can be registered under additional courses. The graduation project (45 EC) is in the area of the specialisation. The internship (15 EC) does not have to be in the specialisation area but does require the approval of the UT internship supervisor. The final programme must be approved beforehand by the specialisation coordinator and the programme director.

* Courses within the ME curriculum are only those courses listed in the [ME MSc course overview](#):

Master's programme for an individual student	EC
a. Specialisation courses	30
b. Elective courses	30
c. Company or research internship	15
d. Graduation project	45
Total (minimum)	120

3.4 Language

1. The instruction language of the master's programme is English. Lectures, examinations and all other educational activities are taught in English.
2. The graduation and internship reports are also written in English. On special occasions deviation from the provisions is possible. Permission must be obtained beforehand from the Examination Board.

3.5 Internationalisation

The programme has the aim of allowing all students to have an international experience during their studies. This can be a company internship, an internship at a university or scientific institution, a graduation project and/or following several regular courses at a foreign university. As this brings extra costs there is a possibility to apply for scholarships. See the subsidy regulations:

<https://www.utwente.nl/en/education/scholarship-finder/>

ARTICLE 4. EDUCATION AND PROGRAMME

4.1 Information supply

1. A course description, method of examination and the form of the education must be published before the start of the course. For this purpose, reference is made to the 'OSIRIS course information' on the internet, with the reservation that education is susceptible to continuous change. The most up-to-date course information, as it is applicable, is found on Canvas.
2. The programme ensures the registration of study results.

4.2 Composition of the personal study programme

1. The student composes a programme together with the specialisation coordinator to which the student is assigned. This programme requires the approval of the specialisation coordinator and the programme director.
2. The student hands in the approved study programme at the Educational Affairs Office (BOZ) at the start of the master's programme, at the latest 1 month after the start of the master's (1 October or 1 March). Even if this is a provisional programme, handing in the study programme on time is crucial for the student (admission to courses and making sure that the course is part of the graduation programme). BOZ processes the study programme within a month
3. To be able to propose the study programme mentioned above, students can use the form for the study programme on the website https://www.utwente.nl/en/me/master_programme/profiles/. This is then discussed with, and approved by, the specialisation coordinator. Thereafter it is sent (with the signature of the student and the specialisation coordinator or an accompanying e-mail from the specialisation coordinator) to BOZ. BOZ presents the study programme to the programme director for approval.
4. If the student wishes to change one or more courses in the already approved programme, this can be done by submitting a request to the relevant specialisation coordinator. For this purpose the form 'Changing master's courses' or a new study programme is submitted, see https://www.utwente.nl/en/me/graduate_procedure/#graduate-procedure. Thereafter it is sent, together with the original study programme, (with the signature of the student and the specialisation coordinator or an accompanying e-mail from the specialisation coordinator) to BOZ. BOZ presents the study programme to the programme director for approval.

4.3 The free MSc programme

1. In exceptional cases, approval by the Examination Board can be given to the taking of a master's examination based on a programme of courses proposed by the student. This is referred to as the free programme
2. The Examination Board determines whether the free programme is composed of education units which are provided by an institution of higher education, whether the study load is sufficient and whether that programme has the required level.
3. The 'required level' mentioned in clause 4.3.4 relates to both the programme of courses, internship and to the master's project.
4. When the Examination Board does not approve the proposal, it must provide clear substantiation for its decision.

4.4 Double UT Master programmes

The Master's programme Mechanical Engineering can be combined with another UT master's programme

1. The student has to be admissible to the Mechanical Engineering programme and other MSc programme.
2. The student chooses 30 EC in specialisation courses, 15 EC of elective courses, 45 EC of Master courses in the other MSc programme (pre-master courses are not accepted) and 15 EC of courses shared in both MSc programmes.
3. The master assignment incorporates themes of both master programmes and is increased from 45 to 60 EC. The total study load of the two master programmes is at least 180 EC
4. The Examination Boards of both programmes need to approve the proposed study programme so that it meets the intended learning outcomes of both master programmes.

Master's programme for a Double UT programme	EC
a. Specialisation courses ME	30
b. Elective courses ME	15
c. Courses other UT MSc programme	45
d. Courses both programmes	15
c. Company or research internship	15
d. Graduation project	60
Total (minimum)	180

4.5 Regulation for including international courses in the master's study programme

1. For this purpose and well before departure to the university abroad, the student makes an appointment with the specialisation coordinator. The student explains the reasons for the request and provides the necessary (course) information.
2. The specialisation coordinator is responsible for determining the level of the course(s) to be completed abroad. This can be delegated to a UT teacher who provides a comparable course. In principle, the international course must have a level equivalent to the UT courses.
3. The international courses need to be approved before the student can go abroad
4. No international courses may be included that substantially overlap with regular UT courses which have already been completed or still have to be completed.
5. There is no automatic conversion of international study points into UT study points (EC). BOZ determines the number of EC by using the Credit Conversion Table of the UT.
6. The maximum number of EC for international courses that can be taken up in the core and elective programme is 30 EC. The surplus of courses can be added to the marks list of the degree certificate as 'extra courses'.
7. One exception can be made relating to 'the maximum number of international courses' in point 5: When the student participates in a master's programme that is set up together with a partner university and the education and assessment takes place at the partner university, the programme should be approved and countersigned beforehand as-a-whole by one of the professors of the faculty and by the programme director.
8. Where possible, BOZ uses the international names of the courses on the Diploma Supplement.

4.6 Time periods, times and frequency

1. At the beginning of a quarter a timetable is published with the dates of written examinations.
2. In case an examination can be taken orally, this can be done at a time determined by the examiner(s) in consultation with the student and, if the student wishes so, at the latest within a month after the request (the vacation period not being counted).
3. For courses of the master's programme that are not published in an education timetable, the examiner appointed by the Examination Board with conducting the examination determines, if possible with the student(s), a time for the examination to take place.
4. The examination for the courses with written examinations, can be taken at least twice per year, once immediately after the period in which the teaching in that course is provided and once at such a time that there is a reasonable gap between two successive examination opportunities. Examinations (oral and written) in courses for which teaching is not offered every year can, at the request of a student, be taken at least once every academic year.
5. Every student has the right to complete every course of the relevant academic year unless the student has been excluded from participation in the relevant education or examination. The student's progress, the results of conditional tests, the score in one of the contributing courses or the absence from education activities or examinations for which one has registered, can in the extreme case be reasons for excluding a student from (further) participation.
6. When existing courses are changed, or substantial changes to the material in a course are made and approved by the programme director, a student who has participated at least once in the examination of the relevant course before the changes were made, has the right to be re-examined in the course in its "old" form at the first timetabled opportunity in the adjoining academic year.
7. In special cases and by student request, the Examination Board or the relevant examiner can allow a deviation from the times listed in clause 4.6.4.

8. Concerning an examination relating to a course which is not taught within the programme, the sequence and time periods in the education and examination regulations valid for that course are applicable, except for a deviating decision made by the Examination Board.

4.7 Structure of practical exercises

For practicals, there is an enrolment and participation obligation. The course itself describes how the study unit will be completed. Absence during a study period may result in failing tests, exams, projects or practical exercises. The programme accepts no responsibility for students' absenteeism. In the event of force majeure (e.g. illness), the student must immediately contact the lecturer responsible for the study unit from which they were absent.

4.8 Internship

1. Students who have considerable industrial experience or have already completed an internship during their Bachelor's degree are not required to do an internship in their master's programme. Instead of an internship, they are required to follow additional (pre-)master courses.
2. The extent of the internship is 15 EC (10.5 nominal study weeks, including writing the report). The content of the internship is determined beforehand and depends on the nature, scope and extent of the project and the necessary residence period.
3. The internship can be started after at least 40 EC of the master's programme has been completed.
4. The internship should be on a mechanical engineering problem or task in a professional manner and as part of a team of engineers in a corporate environment or external research institute.
5. A student can also choose to use their experience as being part of a "Student Team" (for example Green Team Twente, Solar Team Twente or Robo Team Twente) for the internship, provided that the internship supervisor is an employee of one of the participating companies (not a fellow student member) and that a suitable project is available
6. At the start of the internship the student is appointed a UT internship supervisor for which the department is responsible. The internship supervisor is responsible for the assessment of the internship report and has contact with the company supervisor at least once during the internship period.
7. If, after the internship has begun, it is determined that it will not be possible to achieve the intended learning effect, the student should contact the UT internship supervisor to discuss the consequences. It is up to the student to give a timely signal. In the situation that the cause of a non-optimal internship does not rest with the student, adequate compensation for the lapsed study time will be determined in a flexible manner. The UT internship supervisor takes the initiative for this.
8. The student takes the initiative for arranging an internship location and a suitable project. Support is available by means of an internship coordinator. The internship project requires the approval of the UT internship supervisor. The internship coordinator makes sure that the application in Mobility Online is completed by the student. The UT internship supervisor is responsible for the assessment of the content and determines whether the project meets the general UT and programme policies, the internship coordinator provides adequate administrative support.
9. The internship report will be assessed by the UT internship supervisor using a list of assessment criteria. The assessment form from the company or institute is also taken into consideration
10. The student is obliged to register the internship in Mobility Online. Only after the approval of the internship supervisor and correct registration in Mobility Online will the internship be part of the student's study programme.
11. The programme will make no financial demands on the organisation which provides the internship.
12. Further information about the internship and/or the subsidy regulation is available from the Mechanical Engineering internship coordinator. See https://www.utwente.nl/en/me/master_programme/student_mobility/

4.9 Approval, publication and registration of results

1. After the end of an oral examination, the assessment is confirmed within one week and published to the student.
2. Within 15 working days (not counting the academic holidays) after the end of a written examination, handing in of an assignment, a project or finishing of a practical, the result is published. When there is the opportunity for a quick re-examination of the relevant course, the grading time is shortened to such an extent that the student can reasonably prepare for the re-examination. In exceptional cases, this term can be exceeded but this has to be communicated clearly by the teacher.
3. If the period stated in clause 4.9.2 is exceeded, the Examination Board can in the most extreme case determine or allow the determination of the result of an examination.
4. The results of all examinations are published in OSIRIS. When there is a lack of clarity about the result, the declaration countersigned by the examiner is the valid result.
5. When a mistake has been made in a marks list or overview which relates to the study progress of a student, both the programme and the student are required to inform the other party as soon as it is discovered and work together transparently to annul the mistake made.
6. The Exam Office ensures the registration of the assessments and the results of the examinations.

4.10 Duration of validity of assessments

1. The results of examinations that have been taken are valid without time restriction. The questions, answers and the assessed work of written tests will be retained for a period of 2 years by the responsible assessor. In deviation from this, for a course for which the examination was passed more than six years beforehand, the Examination Board can impose an additional or resit of the examination. The validity of an exam result can only be restricted if the tested knowledge, insight or skills are proven to be out of date.
2. In special circumstances the Examination Board can extend the duration of validity of assessments stated in the previous paragraph by a period the length of which it determines.
3. The retention period of (final) assignments of the master's programme is at least 7 years.

4.11 Right of inspection and discussion

1. The student is entitled to inspect and discuss the test together with the examiner and the examiner is to explain the assessment. This is also applicable to the final master's examination.
2. If there is no collective discussion of the test a student may submit a request to the examiner for an individual discussion within ten days after the publication of the results. The individual discussion must take place no later than three working days before the next test opportunity.
3. The discussion must take place no later than five weeks after the publication of the test results, but at least three working days before the next test opportunity, in the presence of the examiner or a designated substitute.
4. The student has a right to inspect the assessed written work for a period of two years following the assessment.

4.12 Quality assurance

The programme director is responsible for the design and implementation of a systematic procedure for evaluating (the parts of) the programme, in particular for the elements 'quality' and 'feasibility'.

ARTICLE 5. FINAL DEGREE

5.1 Examination of the programme

1. The programme is completed with the MSc graduation assignment.
2. The MSc graduation assignment will be assessed by a graduation committee.

5.1.1 Requirements

1. The MSc graduation assignment must be within the territory of one of the directions of the programme and can be taken at one of the departments of the UT, or an external organization. The graduation assignment preferably will not be completed at the same organization as where the internship was completed nor should it be an extension of the internship. In case the graduation assignment is completed at the same organization as the internship, the internship needs to be completed before the start of the graduation project. Next to that, the objective and research question of the internship and research assignment should be different.

2. The student has completed at least 60 EC courses, denoted in the signed registration form, has finished the internship by handing in the report to the supervisor, and completed all the pre-master courses successfully. If a student does not meet the entry requirements, the student and (intended) UT supervisor will be informed. If the student does want to start the MSc graduation assignment without meeting the above mentioned requirements, an exemption should be requested via the ME/SET Examination Board.
3. Before the start of the MSc assignment the student should complete the application in Mobility Online, indicating the start and end date of the MSc graduation assignment, and provide all required agreements.
4. The student is the only author
5. The MSc graduation assignment is written in the language of the programme (English)

5.1.2 Duration

1. The duration of the MSc graduation assignment corresponds to the applicable study load, 45 EC, for the master thesis. 45 EC equals a workload of 40 hours a week during a period of 8 months (not counting the academic holidays). The student will be monitored on their progress during this period based on the registration in Mobility Online.
 - If the time exceeds 8 months the student should contact the study advisor regarding the progress and completion of the MSc graduation assignment and any unforeseen circumstances that may have arisen.
 - If the thesis time exceeds 12 months, the student should ask permission (including a planning) from the Examination Board for an extension. Permission must be requested no later than 11 months into the MSc graduation assignment.
 - If the extension is not given, the completed work of the MSc graduation assignment thus far (after 11 months) will be assessed by the graduation committee and in case this is not sufficient the student has to start a new MSc graduation assignment with a new supervisor.
 - If the student fails to meet the extended deadline as agreed upon with the Examination Board, the completed work of the MSc assignment thus far will be assessed by the graduation committee and in case this is not sufficient the student has to start a new MSc graduation assignment with a new supervisor
2. The duration of the double MSc graduation assignment corresponds to the applicable study load, 60 EC, for the master thesis. 60 EC equals a workload of 40 hours a week during a period of 12 months (not counting the academic holidays). The student will be monitored on their progress during this period based on the registration in Mobility Online.
 - If the thesis time exceeds 12 months, the student should contact the study advisor regarding the progress and completion of the MSc graduation assignment and any unforeseen circumstances that may have arisen.
 - If the thesis time exceeds 16 months, the student should ask permission (including a planning) from the Examination Board for an extension. Permission must be requested no later than 15 months into the MSc graduation assignment.
 - If the extension is not given, the completed work of the MSc graduation assignment thus far (after 15 months) will be assessed by the graduation committee and in case this is not sufficient the student has to start a new MSc graduation assignment, with a new supervisor.
 - If the student fails to meet the extended deadline as agreed upon with the Examination Board, the completed work of the MSc assignment thus far will be assessed by the graduation committee and in case this is not sufficient the student has to start a new MSc graduation assignment, with a new supervisor.
3. At the beginning of the MSc graduation assignment, agreements are made on the nature of the assignment, the planned start date of the MSc graduation assignment, the manner of guidance and the date on which the final report must be handed in;
4. The agreements made in paragraphs 1 and 2 are recorded in Mobility Online;
5. The (draft) MSc thesis is submitted to the chairman of the graduation committee for review. In case the chairman is the supervisor of the graduation assignment at least one other member of the graduation committee should be consulted. If the MSc thesis is approved, the chairman issues a statement that can be used by the student to apply for the final examination. If the MSc thesis is not (yet) approved, the chairman indicates clearly what additions and/or changes to the MSc thesis or the graduation report are required. A new date is set on which the revised MSc thesis

must be handed in. If necessary, this procedure is repeated. The above mentioned deadlines in article 5.1,2,1 & 5.1.2.1.2. need to be taken into account.

6. The approved MSc thesis should be available for the committee two weeks in advance of the graduation date.
7. If the graduation committee is of the opinion that the work done by the student is insufficient, the committee may decide, in consultation with the programme director, that the student has to do another MSc graduation assignment. The same applies if the student fails to hand in the reports or hands them in after the agreed upon deadlines.

5.1.3 Members of the graduation committee

The graduation committee consists of at least three members authorised to conduct examinations.

1. One of the full professors, UHD1 or UHD2 from the relevant Department is the chairman of the graduation Committee. The Examination Board can also invite a professor from outside the Department or the faculty to function as chairman of the graduation committee.
2. One or more supervisors of the student.
3. At least one member of the committee is external, i.e. an academic staff member (not research staff) from another chair
4. Qualifications of members of the graduation committee:
 - a. Academic staff and research staff of the chair, can be regular members.
 - b. All members must have been observers (guests without voting rights) in two graduation exams from either ME or SET
 - c. All members should be in active service. However, a supervisor can be a member up to and including 5 years after retirement.
5. Additional observers of the graduation committee may include:
 - c. Guest(s), being experts on the topic, invited by the chairman. Guests have no voting rights.
 - d. Members of the Examination Board and the programme director, who are, because of their tasks, entitled to attend examination sessions. They have no voting rights.
6. When a member of the graduation committee is prevented from attending an examination session, they can be replaced by a member who has the authority to conduct examinations. The unavailable member should inform the chairman before or at the start of the examination who the replacement will be. The substitute has the voting rights of the member he replaces.

5.2 Degree

1. To show that the Master's examination has been successfully completed, a degree certificate is awarded by the Examination Board. The degree certificate is countersigned by the persons stated in the regulations of the Examination Board. 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 examination 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 with the approval of the programme director. The stated 'extra courses' make no part of the total programme, these courses should be satisfactorily completed.

5.3 Graduating with distinction

When, the Graduation Committee is of the opinion that there is an exceptional level of student achievement and proof of the student's potential as an exemplary academic engineer, the chairman of the graduation committee can submit a reasoned proposal to the programme director to affix to the master's degree the designation 'with distinction'. This must be requested two weeks beforehand, for the degree certificate 'with distinction' to be awarded immediately at the end of the examination. Where there is uncertainty about the award, a degree declaration can be handed over and the degree certificate (with or without 'with distinction') can be received from the Educational Affairs Office within two weeks after the examination.

In addition to the 'exceptional level and potential' the guidelines for passing 'with distinction' are:

- a. The final mark for the master's project is at least an 8.5;
- b. The unweighted average mark of all courses, not including the master's project, must be at least: 8.0;
- c. The assessments of all examinations of the master's courses, including extra courses, are satisfactory ('EX', 'P' or a grade higher than or equal to 6);

- d. All study units that belong to the exam programme of the candidate should be completed within 2.5 years counted from the date of enrolment. In case the candidate is completing a double programme with another UT MSc programme this should be completed within 3.5 years counted from the date of enrolment
- e. The student has not been convicted of fraud during their master's programme.
- f. Exemptions were granted for no more than a third of the total master's programme.

When these conditions are not completely met the chairman of the Graduation Committee of the student involved can submit a request to the Examination Board for the award of the designation 'with distinction'. The Examination Board decides if the designation gets awarded.

ARTICLE 6. STUDENT GUIDANCE

6.1 Student guidance

1. The Faculty Board is responsible for student guidance, including informing students of opportunities for an academic endeavour within the programme and via extracurricular avenues. The study advisors are mandated to provide this guidance
2. Each student is appointed a study advisor.
3. The study advisor supervises the student and advises on study-related matters, as well as personal problems that may be affecting the student's studies.
4. If a student wishes to make use of the right to specific supervision or special facilities, the student must contact the study advisor. The study advisor records the agreements made with the student.
5. The following applies to the entitlement to special facilities:
 - a. demonstrable circumstances beyond the student's control or extenuating personal circumstances;
 - b. if necessary and when possible, a dispensation from participation in exams or tests and/or the availability of special facilities for exams and tests. Such dispensation and additional opportunities for tests may only be granted by the Examination Board.

6.2 Studying with a disability

1. A functional impairment is a physical, sensory or other functional disorder that might limit the student's academic progress.
2. The study advisor and the student will discuss the most effective facilities for the student as referred to in Article 2 of the Equal Treatment of Disabled and Chronically Ill People Act (WGB h/cz).
3. Facilities are to be aimed at removing specific barriers in the teaching programme or when it comes to taking exams. Where necessary, these facilities may be related to access to infrastructure (buildings, classrooms and furnishings) and study materials, adjustments to the form of assessment, alternative learning pathways or a customized study plan. The facilities are to ensure the student's chances of achieving the final attainment targets.
4. Based on the interview referred to in paragraph 2, the student is to submit a request for facilities to the study advisor, preferably three months before the student is to participate in classes, exams and practical exercises for which the facilities are required.
5. The request is to be submitted along with supporting documentation that is reasonably necessary for assessing the request (such as a letter from a doctor or psychologist registered in the BIG register, or in the case of dyslexia from a healthcare psychologist or special education needs expert, also registered in the BIG register).
6. The study advisor will decide on the admissibility of the request as referred to in paragraph 4 and will inform the student of the decision within 20 working days after receipt of the request or sooner as the urgency of the request dictates.
7. The study advisor will ensure that the relevant parties are informed in time about the facilities granted to a student with functional impairment.
8. Should the study advisor reject the request in full or in part, the study advisor is to inform the student of the justification for the rejection and the possibilities for lodging an objection and an appeal. A written objection must be submitted in writing within six weeks after the decision has been communicated to the student. The objection is to be submitted to the objections, appeals and complaints office via the Student Services desk.
9. Should extra facilities be granted, the period of validity will also be indicated. The applicant and the study advisor will evaluate the facilities before the end of this period. During this evaluation, parties will discuss the effectiveness of the facilities provided and whether they should be continued.

10. If a student is dyslexic, proved by handing in a dyslexia statement, the student will be granted a maximum of 15 extra minutes for each hour that a test or exam is officially scheduled.

ARTICLE 7. AMENDMENTS, TRANSITIONAL ARRANGEMENTS, APPEALS AND OBJECTIONS

7.1 Conflicts with 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.

7.2 Administrative errors

If following the publication of an exam result, a marks sheet, or a student's progress report, an alleged 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 with the rectification of the error.

7.3 Amendments to the regulations

1. Amendments to these Education and Examination Regulations are enacted by the Dean in a separate decree.
2. In principle, 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 student are not prejudiced within reasonable bounds or in situations of force majeure.
3. Amendments to these regulations do not affect earlier decisions by the Examination Board.

7.4 Transitional arrangements

1. In the case of amendment of these Education and Examination Regulations, the Dean is to enact a transitional arrangement as necessary.
2. The transitional arrangement is to be published on the degree programme's website.
3. General principles for the transitional arrangement in the case of changes to the curriculum:
 - a. Changes to the curriculum are to be announced prior to the academic year in which the changes take effect.
 - b. No guarantee can be made that all programme study units that were part of the curriculum when a student enrolled in a programme will continue to be part of the curriculum.
4. The transitional arrangement will always include:
 - a. an explanation of whether and which components of the changed program can be used as substitutes for discontinued courses;
 - b. an indication that if a study component that does not involve a practical is dropped from a programme, then students are to have at least two opportunities in the following year to take a written or oral exam or to undergo another form of assessment;
 - c. an indication that if a study component with practical exercises is dropped from the programme and there is no opportunity in the subsequent academic year to complete the practical exercise, 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 with regard to the provisions of paragraph 4.
6. In exceptional cases and not to the student's detriment, the Examination Board may deviate from the prescribed number of opportunities to sit exams related to study components that have been dropped from the curriculum.

7.5 Assessment of the Education and Examination Regulations

1. The Dean is responsible for the regular assessment of the Education and Examination Regulations and is to take into account the time involved for the student for the purposes of monitoring and adjusting the study load, if necessary.
2. In accordance with article 9.18 of the WHW, parts of the Education and Examination Regulations need the approval of the Programme Committee. On other parts, the Programme Committee can advise.

7.6 Appeals and objections

An objection against a decision by the Examination Board or examiner or an appeal against a decision by the Dean based on these Regulations must be submitted in writing within six weeks after the decision has been communicated to the student. The objection is to be submitted to the objections, appeals and complaints office via the Student Services desk.

7.7 Hardship clause

The Examination Board may allow derogation from the provisions of these Regulations in the event of demonstrably compelling unreasonableness or unfairness.

7.8 Publication

The Education and Examination Regulations and the Examination Board's rules and guidelines are to be published on the degree programme's website.

7.9 Date of effectiveness

The date of effectiveness of these regulations is 1 September 2023.

APPENDICES

Appendix 1: Procedure for master examination, colloquium and award of degree

The programme can proceed to the award of the master's degree certificate when the student has met the following requirements:

1. Well before the graduation the student contacts the graduation supervisor in order to determine the graduation committee, graduation date and room. Also, see the Graduation Handbook and/or the relevant graduation regulations within the Department;
2. The student ensures that the 'Registration for the master's degree award' form and the colloquium form countersigned by the graduation supervisor are handed in at the Educational Affairs Office (BOZ) four weeks (20 working days) before the examination;
3. BOZ sends the student an e-mail (and a copy to the graduation supervisor) with information on not-yet-completed study phases(s) and a request to check this data within a week. When it's necessary to tidy things up, change, delete and/or add courses, the student needs to hand in a copy of the 'Form for proposal for changes to master's courses' countersigned by the specialization coordinator at BOZ;
4. Immediately thereafter BOZ checks all study data and, where applicable, the form proposals for changes;
5. The marks of all courses, except the graduation project, must be handed in at BOZ three weeks before the examination;
6. If all requirements for passing have been met, BOZ registers the student with Student Services (in writing two weeks before the examination);
7. The student ensures that at the time of the colloquium he is registered for the programme of the UT;
8. Student Services checks whether the student has met all (registration) requirements;
9. Once each week, BOZ authenticates and registers all the relevant degree certificates at Student Services.
10. About one week before the examination, the student hands in the master thesis (Word or PDF) in digital form, preferably by e-mail, at BOZ.
When the rules above have been met and the examination has been completed successfully, the student can immediately after the examination sign and receive the degree certificate which is also signed by a member of the ME/SET Examination Board. The diploma supplement is also awarded. In exceptional circumstances, BOZ is not able to hand over the degree certificate in time for the award directly after the colloquium. The degree certificate can be obtained at a later time arranged by BOZ or the Department.
11. After the final mark of the examination has been processed by BOZ, the transcript of records is sent to the student as soon as possible.

All the forms mentioned above can be obtained from the Educational Affairs Office or can be downloaded from the Mechanical Engineering website:

http://www.utwente.nl/me/master_programme/graduate_procedure/

Appendix 2: Assessment of the master examination

2.1 General remarks

In the assessment of the master's project, it is determined whether the candidate meets the aims of the programme. The aspects of assessment are:

- a. The level of the contents of the work undertaken in the light of the aims of the programme;
 - b. The demonstrated skills of the engineer (working on projects, independence, approach to design, scientific/academic attitude);
 - c. Communications skills (report, presentation, communication with colleagues in the company and in the Department).
1. These aspects are tested by reference to the report (thesis), the presentation, the oral cross-questioning and the approach to the problem (master's problem). Marks for each component are used to substantiate decisions and for giving feedback. The final mark is not the average of the component marks.
 2. In case of a complete and regular master's programme, the student passes when the following conditions have been satisfied:
 - b. the assessment of the master's thesis is satisfactory;
 - c. every mark is at least a 6, 'exempt' (EX) or 'pass' (P), with the exception of at most one 5 which may occur in the Master's courses or pre-master courses followed during the MSc programme provided it is not the mark for the master's thesis nor internship.
 3. If the student has passed, the Educational Affairs Office will send the result with the date of passing to Student Services.

2.2 Assessment protocol Master thesis ME

This protocol was set up to support the assessment of master theses within the MSc-programme Mechanical Engineering (ME).

The assessment of the master thesis takes place after the public colloquium and discussion/questioning in a closed meeting with the student and the master graduation committee. The assessment is done in a short, closed meeting of the master graduation committee without the student. The assessment is performed by the university members of the master graduation committee, guests have an advisory-vote. At the assessment, several aspects are taken into account (as described below and in appendix 2.3). Appendix 2.4 presents profiles for final grading that indicate how the quality of the master thesis as a whole can be translated into a final grade. The list of aspects for assessment and the profiles for final grading offer guidelines for a more equalized assessment of master theses and offer clarity to the student about the way he or she will be assessed. The aspects for assessment and the grading profiles were set up according to the learning goals of the master thesis and (partially) on the final qualifications of the MSc-programmes.

Regarding the assessment aspects, five main aspects are distinguished:

1. With respect to content: quality of research or design
2. Report
3. Working process during master thesis project
4. Oral presentation
5. Defence

Appendix 2.3 lists all aspects within these five main categories. When assessing a master thesis, the committee will address these five main aspects and determines the strong and weak points of the student's work and gives grades (not necessary integers) on each of these main aspects. This is registered by the chairman of the master graduation committee on the Assessment Form MSc-thesis ME (appendix 2.5). Subsequently the committee determines the final grade, by a half point, for the master thesis according to the final grading profiles (see Appendix 2.4).

After determination of the final grade, the master graduation committee invites the student for a closed meeting and announces the final grade and presents the feedback on the assessment form orally to the student.

2.3 Aspects for assessment

1) *With respect to content; quality of research / design*

- insight in subject matter
- depth (detailed elaborations, use of literature)
- insight in coherence between different parts of the research project
- reasoning / argumentation of conclusions (are research questions clearly stated and answered?)
- relevance (scientifically, but also applicability in practice) (being able to put research into its context)
- creativity / inventiveness: extent to which the student independently introduces new concepts
- extent to which the research contributes to new knowledge / contributes to a concrete product, design or model
- learning (quality and quantity)

2) *Report*

- composition, structure
- consistency
- clarity/sharpness of formulations
- readability
- editing, layout
- images and tables (usefulness, added value)
- references to literature
- has been checked on plagiarism (plagiarism report added by student)

3) *Working process during the master thesis project*

- attitude
- independence
- commitment/engagement
- cooperation
- communication skills
- incorporation of feedback
- functioning within the organisation where the project is carried out
- student's attitude during progress meetings (active/passive)
- the extent to which the original research proposal has been met and reasons for alterations (keeping up with work planning, follow up on appointments made)
- time needed to finish master thesis

4) *Oral Presentation and defence*

- content (what is included / not included in the presentation; is the message coming across?)
- structure/outline presentation
- care of details/neatness
- captivating way of presenting (verbal capabilities, posture)

5) *Defence*

- insight into subject matter and its relation with adjacent subjects
- answering questions/discussion
- ability to interpret/understand/analyse questions

2.4 Profiles for final grading

5. Insufficient

The research and/or report are insufficient and the student was strongly directed by the supervisors. Weak points can clearly be pointed out. The student did not show an academic attitude. On average, the student scores 'insufficient' on all aspects of assessment.

6 – 6.5: Sufficient

With respect to content, the research was conducted sufficiently. The report is mediocre. Weak points can clearly be pointed out, but are compensated by aspects on which the student performs better. The student has shown little own input and was strongly directed by their supervisors. On average, the student scores 'sufficient' on all aspects for assessment.

7 – 7.5: Satisfactory

With respect to content, a solid piece of research was delivered. The report is carefully edited. Either the research process or the mastery of subject matter leaves room for improvement.

The supervisors clearly had a steering influence on the final product. The student scores at least 'sufficient' on all aspects for assessment and 'good' on some aspects.

8 – 8.5: Good

With respect to content, the research was set up in a solid way and was carried out accurately. The report is carefully edited regarding language, structure as well as lay out with minimal input of the supervisors. The student has worked independently and was able to put forward own initiatives.

Guidance given by the supervisors was minimal. On average, the student scores 'good' on all aspects for assessment.

9 – 9.5: Very good

The research is innovative and can be converted to an article for a renowned (scientific) magazine or a conference proceeding without putting in too much effort. With respect to content, the research is very solid with some points that can clearly be pointed out as very good. The report is carefully edited and shows that the student disposes of very good writing skills. The student's own input and independence are large. The student clearly stands above subject matter and is able to defend their statements in discussions well. The student scores at least 'good' on all aspects for assessment and 'very good' on some aspects.

10: Excellent

The student functions at the level of an expert in the field. With respect to content, the research is excellent. The student is very capable of conducting research independently. The report and the presentation show that the student disposes of excellent communication skills (written and oral). The student scores at least 'very good' on all aspects for assessment and 'excellent' on some aspects.

2.5 Assessment Form MSc-thesis ME

MASTER'S EXAM:

Name :
 Student number :
 Master's track :
 Graduation professor :
 Master's programme : attached
 Date master's examination :

Plagiarism check, no plagiarism found

Oral presentation : _____
 Report : _____
 Defence : _____
 M-assignment (content) : _____
 M-assignment (process) : _____
 FINAL GRADE : _____

The graduation committee hereby states that
 The status of the final report will be*:
 = "**Confidential**" (for a period of _ years)
 = "**Public**"
 *) tick the appropriate box

RESULT : _____

Graduation committee:

Prof.dr.ir. XX
 Dr.ir. YY
 Prof.dr.ir. ZZ

Signature:

Criteria	Motivation (What went well, What could have been improved)
Oral Presentation	
Report	
Defence	
Content (quality of research or design)	
Working process during project	