

TEACHING AND EXAMINATION REGULATIONS (TER)

**(from Article 7.13 of the Higher Education and
Research Act)**

BACHELOR'S DEGREE PROGRAMME

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MASTER'S DEGREE PROGRAMME

Aerospace Engineering

DELFT UNIVERSITY OF TECHNOLOGY 2019-2020

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Paragraph 1 - General

Article 1 – Applicability of the regulations

1. These regulations apply to the teaching and examinations of the Bachelor's and Master programme Aerospace Engineering, hereinafter referred to as 'the programme'.
2. The programme is provided under the responsibility of the faculty of Aerospace Engineering of Delft University of Technology, hereinafter referred to as the faculty.
3. The programme is governed by Implementation Regulations (this comprises the study programmes and course descriptions in the digital study guide), which constitute part of these Teaching and Examination Regulations.

Article 2 - Concepts

1. The following concepts apply in this Regulation:
 - a. first academic year: the first period in the programme with a study load of 60 credits, as specified in Article 7.8b Section 8 of the Act;
 - b. degree audit: the test, in which, in accordance with Article 7.10 of the Act, the Board of Examiners determines whether all examinations in the subjects of the degree programme have been successfully completed;
 - c. negative binding recommendation on continuation of studies: the rejection linked to the recommendation on the continuation of studies at the end of the first year of enrolment as specified in Article 7.8b Section 3, first sentence;
 - d. programme: the Bachelor's degree programme/Master's degree programme, as stipulated in Article 7.3a, Section 1, in the Act;
 - e. Osiris: the education information system;
 - f. practical exercise: subject of component of a subject aimed at the acquisition of particular skills. The following can be understood as practical exercises:
 - writing a thesis,
 - conducting a project or experimental design,
 - carrying out a project or a design/research assignment,
 - completing an internship,
 - participating in field work or an excursion,
 - conducting tests and experiments, or
 - participating in other educational activities that are considered essential and that are aimed at acquiring particular skills;
 - g. bridging programme: a deficiency programme aimed at moving up to a Master's degree programme, as stipulated in Article 7.30e or Article 7.57i of the Act;
 - h. student: a person enrolled at Delft University of Technology in order to receive education and take the examinations and the degree audit in the degree programme;
 - i. credit: credit in accordance with the European Credit Transfer System (ECTS); one credit equals a study load of 28 hours;
 - j. study guide: the digital guide for the degree programme containing specific information on the subjects included in the degree programme (www.studiegids.tudelft.nl);
 - k. examination: investigation of the student's knowledge, insight and skills with regard to a subject, along with the assessment of that investigation;
 - l. track: major, as stipulated in Article 7.13, Section 2, Subsection b of the Act;
 - m. subject: a unit of study within the programme, as stipulated in Article 7.3, Sections 2 and 3 of the Act with which an examination is associated;
 - n. working day: Monday through Friday, with the exception of recognised holidays and the collective closure days;
 - o. Act: the Higher Education and Scientific Research Act (abbreviated to WHW), Bulletin of Acts and Decrees 593 and any amendments since its introduction.
 - p. cohort: the group of students who have registered for a degree programme for the first time in a given academic year;
 - q. Bachelor's phase: The first, second and third years of the undergraduate (BSc) programme;
 - r. teaching period: half a semester;

- s. Board of Examiners the programme's Board of Examiners, which has been installed in accordance with Article 7.12a of the Act;
- t. examiner: the individual who, in line with Article 7.12, subsection 3 of the Act, has been appointed to set the examinations;
- u. Implementation Regulations: the Implementation Regulations which form part of these Teaching and Examination Regulations; The Implementation Regulations comprise the course descriptions and study programmes as laid down in the current study guide;
- v. the university: Delft University of Technology;
- w. Brightspace: the electronic system designed for the exchanging of course information;
- x. disability: all conditions which are (at least for the specified period) chronic or lasting in nature and which form a structural limitation for the student in receiving education and/or sitting examinations or taking part in practicals;
- y. minor: a cohesive collection of Bachelor's courses amounting to 30 ECTS. These courses must be compatible with the generic achievement levels of the Bachelor's degree programme. Characteristic: the student has freedom of choice regarding minors; the minor has to be approved by the Board of Examiners
- z. major: the courses of a Bachelor's degree programme amounting to 150 ECTS, which must comply with both the domain-specific and generic achievement levels. Characteristic: the content of the major programme is set largely or completely by the degree programme.
- Z2. recommendation on continuation of studies, first year of study: the recommendation intended in Article 7.8b subsection 1 of the Act, which is made to every student no later than the end of their first year of enrolment.
- Z3. Academic year: the period from 1 September to 31 August of the following calendar year
- Z4. Programme duration: the duration starting from the enrolment of the student till the last examination
- Z5. Study abroad: period of studies in which students enrolled at TU Delft take courses abroad for their BSc/MSc curriculum at a partner university of the faculty of Aerospace Engineering.
- Z6. Partner University: a university that the Faculty of Aerospace Engineering has an agreement with either bilaterally or as part of a TU wide agreement. Additionally, the universities within a network that the Faculty of Aerospace Engineering is part of, are also considered partner universities. This includes Global E3 programme, Athens programme, Unitech programme, IDEA League and Pegasus.

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

3. In these regulations, the term 'examination' also refers to 'interim examination', with the exception of Articles 19, Section 2, and 22.

Paragraph 2 - Admission and prior education

Article 3 - Admission to Bachelor's degree programmes ONLY FOR BACHELOR'S PROGRAMMES

1. Access to education in the Bachelor's degree programme in Aerospace Engineering is open to individuals possessing a certificate as stipulated in the law and corresponding ministerial regulations with the proper profile or subject, or anyone who meets the stated requirements..

ONLY FOR PROGRAMMES WITH NUMERUS FIXUS/DECENTRALISED SELECTION

<p>In addition, the programme is accessible only to individuals possessing a notice of admission, as stipulated in the TU Delft Selection and Placement Regulations, after having completed the procedure in the aforementioned Regulations and the Selection Criteria Regulations and Procedure for the degree programme in Aerospace Engineering .</p>
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The prior education requirements are elaborated below, by type of certificate.

a. Certificate of pre-university education (VWO; as stipulated in Art. 7.24.1 a or b of the WHW) or a Surinamese diploma for pre-university education (VWO)

S&E profile	admissible ¹
S&H profile	with Mathematics B and Physics ²
E&S profile	with Mathematics B and Physics ³
C&S profile	with Mathematics B and Physics ⁴

The following applies as well:

- individuals possessing a pre-university (VWO) certificate with the S&H profile from before 2007 are admissible;
- individuals possessing an 'old style' pre-university (VWO) certificate with Mathematics B and Physics in the combination of modules are admissible;
- individuals with certificates that do not include the aforementioned modules must rectify these deficiencies before they can be registered and admitted (no later than 31 August).

b. Bachelor's, Master's or Doctoral degree, or a certificate of first-year degree audit for higher professional education obtained at a Dutch institution

The following applies to this category:

- individuals possessing a pre-university (VWO) certificate, as mentioned in Subsection a, are subject to the conditions in Subsection a;
- individuals possessing certificates from senior general secondary education (HAVO) or senior secondary vocational education (MBO) must rectify the deficiencies relative to the pre-university (VWO) level Mathematics-B, Physics before they can register and be admitted (no later than 31 August).

c. Foreign degree

A foreign degree (regardless of whether they were earned abroad) or diplomas based on a European or International Baccalaureate programme must be equivalent to the pre-university (VWO) level containing the subjects Mathematics-B, Physics before they can register and be admitted (no later than 31 August). This equivalence is determined by the Executive Board.

Individuals in this category must also meet the requirements of satisfactory linguistic mastery of Dutch or English, as stated in the appendix.

2. In all non-standard cases, the admissions committee of the Bachelor's degree programme will assess whether their qualifications reflect an adequate level of Mathematics and Physics and a satisfactory language level.

**Article 3- Admission to the Master's degree programme
ONLY FOR MASTER'S DEGREE PROGRAMMES**

1. Individuals holding one of the following degrees have access to the education of the Master's degree programme in Aerospace Engineering on the condition that all of the stated requirements have been met.

a. Specific university Bachelor's degree

- Bachelor's degree in Aerospace Engineering from Delft University of Technology
- Bachelor's degree in Mechanical Engineering, Marine Technology, Electrical Engineering, Civil Engineering or Applied Physics from one of the three technical universities in the Netherlands.
- Bachelor's degree in Physics, Astronomy or Advanced Technology from a Dutch research university.⁵

b. Other university Bachelor's degree (not including those listed in Subsection a)

Students who possess a Dutch bachelor degree not mentioned above are required to obtain proof of admission to the programme from the dean, who will seek the advice of the admission committee on this matter.

¹ Science & Engineering,

² Science & Health

³ Economy & Society

⁴ Culture & Society

⁵ Defined in Art. 1.3.1 WHW)

c. Higher professional education degree

The following applies to this category:

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

- Bachelor's degree from a Dutch HBO institution in combination with the completed bridging programme (schakelprogramma) in Aerospace Engineering.

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- Bachelor's degree in Military Systems and Technology of the Netherlands Defence Academy (Nederlandse Defensie Academie NLDA), with profile Military Platform Systems specialisation Aviation Technology, profile Sensor Weapons Systems specialisation Weapons, or profile Operations Research (if module Aeronautical Engineering has been completed successfully) .

d. Foreign degree

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

The following requirements must be met:

- Bachelor degree in Aerospace Engineering or closely related subject, and
- a minimum bachelor's Cumulative Grade Point Average (CGPA), specific requirements are defined per country (<https://www.tudelft.nl/en/education/admission-and-application/msc-international/1-admission-requirements/#c41762>). If the country is not listed in the overview, the required minimum CGPA is 75%, and
- scores for key subjects must be good, and
- GRE test
- English language proficiency, the requirements can be found in the appendix.

Next to this candidates are required to submit a CV, two reference letters and a motivation statement.

2. Access to the education of the Master's degree programme in Aerospace Engineering is open to individuals who have demonstrated to the admissions committee that they possess knowledge, insight and skills at the level of the Bachelor's degree mentioned Subsections 1a, or of a university Bachelor's degree, in addition to the further requirements mentioned in Subsections 1b and 1c.

For EWEM (track Rotor Design) the admission requirements are listed in Appendix Art. 3 of the TER.

Article 3a – Admission to the programme 2020-2021

Article 3 applies, but additionally:

1. Students possessing a bachelor degree from a Dutch higher education institution can enrol for the MSc Aerospace Engineering per 1 September and 1 February., The admission deadlines are 1 May for students who want to enrol per 1 September and 1 December for students who want to enrol per 1 February.
2. For EER students, a rolling admission applies with an application deadline of April 1st. Enrolment is only possible per September 1.
3. For non-EER students the application deadline is January 1st, selective admission on the basis of submitted materials. Enrolment is only possible per September 1st.
4. The MSc Aerospace Engineering strives for diverse and balanced student population both at programme and at track level. This will be taken into account when considering the track preferences.

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

1. A student who is enrolled in a Bachelor's degree programme for a bridging programme with the aim of being admitted in a Master's degree programme at TU Delft, must complete the bridging programme within two academic years.
2. After the course duration of the bridging programme the enrolment will be cancelled. Under exceptional personal circumstances the student can submit a well-founded request for an extension of the course duration for a period of at most twelve months to be evaluated by the Director of Education, advised by the academic counsellor(s).
3. The Executive Board will set the fee to be charged, as denoted in Article 7.57i of the Act, for the enrolment as student in a bridging programme and for the extension thereof, as denoted in subsection 2 of this article.

**Article 4 - University entrance examination
ONLY FOR BACHELOR'S PROGRAMMES**

1. The process of conducting the admissions examination, as specified in Article 7.29 Sections 2 and 3 of the WHW, is assigned to the TU Delft University Entrance Examination Committee established for the joint programmes.
2. Individuals who have reached the age of 21 years and who would like to be eligible for a university entrance examination must possess the following:
 - 1) a partial pre-university education (VWO) certificate for the subjects Mathematics-B and Physics, or a certificate from a continuing education course or a test administered by the institution, and
 - 2) satisfactory communication skills in Dutch. This is also a requirement for degree programmes taught in English.
3. The TU Delft University Entrance Examination Committee assesses whether the candidate possesses the certifications (or partial certifications) mentioned in Section 2. If this is the case, the committee will conduct an interview with the candidate, in which they examine the candidate further and determine whether the candidate has satisfactory communication skills in Dutch.

Paragraph 3 - Content and composition of the programme

Article 5 - Goal of the programme

1. The programme is intended to educate students to earn a Bachelor/Master of Science degree in Aerospace Engineering providing them with such a level of knowledge, insight and skills in the area of Aerospace Engineering, that graduates can fulfil positions on the labour market at the Bachelor's/Master's level.

Only for Bachelor's degree programmes:

and be eligible for a follow-up programme at the Master's level, in any case, the Master's degree programme[(s)] in Aerospace Engineering.

2. BSc Graduates must also meet the specific final attainment levels for each degree programme, as listed below⁶:
 1. The BSc graduate has a consolidated body of knowledge in the fields of basic and engineering sciences, and aerospace engineering sciences in particular, and has the competence to increase and develop this through study.

⁶ For the detailed BSc Final Qualifications see the separate document 'BSc Final Qualifications TU Delft Aerospace Engineering', April 2006.

2. The BSc graduate has an understanding at an introductory level of the most important research issues in the aerospace related sciences, and is aware of the connections with other disciplines. He or she has the competence to acquire new scientific knowledge through research. For this purpose, research means: the development of new knowledge and new insights in a purposeful and methodical way.
3. Designing is a synthetic activity aimed at the realisation of new or modified artefacts or systems, with the intention of creating value in accordance with predefined requirements. The BSc graduate aerospace engineering is able to recognize, formulate and analyse engineering problems independently and to offer one or more acceptable solutions.
4. The BSc graduate has a systematic approach characterised by the development and use of theories, models and coherent interpretations, has a critical attitude, and has insight into the science and technology in the aerospace domain.
5. The BSc graduate is competent in reasoning, reflecting, and forming a judgment. These are skills which are learned in the context of aerospace and which are generically applicable from then on.
6. The BSc graduate has the competence of being able to work with and for others. This requires not only adequate interaction, a sense of responsibility, and leadership, but also good communication with colleagues and non-colleagues. He or she is also able to follow a scientific or public debat.
7. The aerospace engineering sciences are not isolated and always have a temporal and societal context. Beliefs and methods have their origins; decisions have societal consequences in time. The BSc graduate is aware of this and therefore has knowledge and understanding of the context in which aerospace engineering and utilization is practiced by industry, institutes and organizations. He or she has the competence to integrate these insights into his or her work.

MSc Graduates must also meet the specific final attainment levels for each degree programme, as listed below⁷:

1. The MSc graduate is familiar with existing scientific knowledge, and has the competence to increase and develop this through study.
2. The MSc graduate has the competence to acquire new scientific knowledge through research. For this purpose, research means: the development of new knowledge and new insights in a purposeful and methodical way.
3. The MSc graduate is familiar with the principles of design. Designing is a synthetic activity aimed at the realization of new or modified artefacts or systems with the intention of creating value in accordance with predefined requirements and desires (e.g. mobility, health).
4. The MSc graduate has a systematic approach characterized by the development and use of theories, models and coherent interpretations, has a critical attitude, and has insight into the nature of science and technology.
5. The MSc graduate is competent in reasoning, reflecting, and forming a judgment. These are skills which are learned or sharpened in the context of a discipline, and which are generically applicable from then on.
6. The MSc graduate has the competence of being able to work with and for others. This requires not only adequate interaction, a sense of responsibility, and leadership, but also good communication with colleagues and non-colleagues. He or she is also able to participate in a scientific or public debate.

⁷ For the detailed MSc Final Qualifications see the separate document 'MSc Final Qualifications TU Delft Aerospace Engineering', February 2006.

Science and technology are not isolated, and always have a temporal and social context. Beliefs and methods have their origins; decisions have social consequences in time. A university graduate is aware of this, and has the competence to integrate these insights into his or her scientific work.

Article 6 - Track

ONLY FOR MASTER'S DEGREE PROGRAMMES

The Master's degree programme has the following tracks, with the stated content:

- Aerodynamics & Wind Energy
- Control & Operations
- Space Flight
- Flight Performance & Propulsion
- Aerospace Structures & Materials
- EWEM, track Rotor Design

Article 7 - Composition of the programme and degree audits

ONLY FOR BACHELOR'S DEGREE PROGRAMMES

1. The programme includes the Bachelor's degree audit, with a study load of 180 credits. This includes the first academic year, with a study load of 60 credits, which is concluded with a binding recommendation on the continuation of studies. The second and third academic years have a combined study load of 120 credits. This phase includes a minor with a study load of 30 credits. Subsection e
2. As a component of the programme, the minor includes the following variants: Subsection a
 - a. Thematic minor, as approved by the university,
 - b. Self-composed minor, as approved by the Board of Examiners.
 - c. Minor abroad, as approved by the Board of Examiners.
3. The Bachelor's degree audit is concluded with a final test or assignment. This test or assignment demonstrates that the student possesses and is able to apply the knowledge, insight and skills acquired in the degree programme. Subsection a
4. The degree programme is described in the Implementation regulations, along with the subjects, including the study load, number of contact hours and form of examination of each subject, as well as the programming of the examination and the language. Subsection e and x
5. The actual design of the education is elaborated in greater detail in the study guide. Subsection x

ONLY FOR MASTER'S DEGREE PROGRAMMES

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

4. The Master's degree audit is concluded with a final test or assignment. This test or assignment demonstrates that the student possesses and is able to apply the knowledge, insight and skills acquired in the degree programme.
5. The degree programme is described in the Implementation Regulations , along with the subjects, including the study load, number of contact hours and form of examination of each subject, as well as the programming of the examination and the language.
6. The actual design of the education is elaborated in greater detail in the study guide.

Article 8 - Form of the programme

The programme is offered exclusively as full-time.

Article 9 – Language

1. The teaching is in English, and the examinations are administered in English.
2. Should a student request permission to complete one or more parts of the examination or the degree audit in a language other than English, this will be subject to the stipulations of the Board of Examiners in this regard, as laid down in the Rules and Guidelines of the Board of Examiners.

Article 10 – Honours Programme

ONLY FOR BACHELOR'S DEGREE PROGRAMMES

1. Students who have successfully completed the first study year in a single year and have met the criteria referred to in the Implementation Regulations will be invited to register for the Bachelor's Honours Programme for outstanding Bachelor's students.
2. Based on the criteria referred to in the Implementation Regulations, students will be selected and admitted to the Bachelor's Honours Programme by the Director of Studies or a Honours programme Coordinator established by the Director of Studies or a Honours Committee established by the Director of Studies.
3. The Bachelor's Honours Programme comprises at least 20 credits.
 - a. At least five credits must be completed in the institution-wide component of the Bachelor's Honours Programme, which consists of the following components:
 - community engagement,
 - entrepreneurship,
 - leadership,
 - development of specific competences.
 - b. At least 15 credits must be completed in the faculty component of the Bachelor's Honours Programme, the composition of which (including its content and options) is described in the Implementation Regulations.

ONLY FOR MASTER'S DEGREE PROGRAMMES

1. Based on the criteria referred to in the ' Implementation Regulations, students will be selected and admitted to the Master's Honours Programme by the Director of Studies or a Honours Coordinator established by the Director of Studies or a Honours Committee established by the Director of Studies.
2. The Master's Honours Programme comprises at least 20 credits.
 - a. At least five credits must be completed in the institution-wide component of the Master's Honours Programme: the subject 'Critical Reflection on Technology', UD2010, and

b. At least 15 credits must be completed in the faculty component of the Master's Honours Programme, the composition of which (including its content and options) is described in the Implementation Regulations.

FOR BOTH BACHELOR'S AND MASTER'S PROGRAMMES

4. All students selected for participation in the Honours Programme must submit their options for the faculty component for approval to the Director of Studies or Honours programme Committee.
5. The Board of Examiners will be responsible for assessing whether all the requirements of the Honours Programme have been met.
6. Any student who has successfully completed the Honours Programme will be awarded a certificate signed by the chair of the Board of Examiners and the Rector Magnificus.

Article 11 – (Compulsory) participation in the programme **FSC right of approval, BoS advisory powers**

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

Article 12 - Programme evaluation **BoS right of approval**

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

Paragraph 4 – Registration for subjects and examinations

Article 12a – Compulsory registration for subjects

1. All students must register each semester for every subject that they wish to or are obliged to take, subject to the further provisions of this article. Students must register for each module in Osiris.
2. Students who have not registered for a subject according to the prescribed procedure are excluded from participation in that module.
3. Students who are participating for the first time in the first year of a Bachelor's, Master's or Bridging programme will be registered by the faculty for all compulsory subjects in the first semester of the first academic year of the programme. The procedure for registering for electives for these students who are registering for the first-time is described in the study guide
4. Registration for subjects takes place each semester during the registration period described below. Note that the registration period for a subject with limited capacity as referred to in Section 6 of this article is one week shorter. When registering for a minor, other provisions apply.
 - a. The registration period for subjects in the first semester is
 - from Monday (9:00) of teaching week 4.6 up to and including Sunday (23:59) of teaching week 4.7, and
 - from Monday (9:00) up to and including Sunday (23:59) of teaching week 4.2 for a subject as referred to in Section 6 of this article.
 - b. The registration period for all subjects in the second semester is
 - from Monday (9:00) of teaching week 2.3 up to and including Sunday (23:59) of teaching week 2.4, and
 - from Monday (9:00) up to and including Sunday (23:59) of teaching week 2.1 for a subject as referred to in Section 6 of this article.

Two weeks after the closing of the registration period a first check will take place based on the entry requirements described in the study guide. The registration for students who fulfil the entry requirements at the time of the check is finalised. If students do not meet the entry requirements at that time, they will be given the opportunity to meet the entry requirements if possible.

One week before the start of the semester, a second and final check will take place. The registration for students who fulfil the admission requirements at the time of this check is finalised. Students who do not fulfil the admission requirements at the time of this check will not be permitted to participate in the subject.

5. Students may register for modules with a total maximum study load of 40 credits per semester. A student who wishes to take more subjects must submit a written request for this, giving their reasons, to the Director of Education of the faculty before the registration period as referred to in Subsection a or b in Section 4 of this Article, after first seeking advice from the academic counsellor. If permission for this is granted, the programme will arrange the registration for the extra module(s).
6. Before the start of the registration period the study guide will show which subject or parts of subjects are a compulsory part of the programme. The Programme Director may restrict participation in a subject within a programme in the following cases:
 - a. for a subject with a maximum number of participants, admission is based on the criteria stated in the study guide, on the understanding that priority will be given to students for whom the subject is a compulsory part of their programme.
 - b. for a subject with an admission requirement, registration for the subject is seen as a pre-admission which will be checked against the admission requirements stated in the study guide before being finalised.

- c. if participation in an elective is subject to further requirements as stated in the course description in the study guide.
7. Students who wish to register for a subject outside of the official registration period on the grounds of exceptional personal circumstances may send a written request to Director of Education up to two weeks before the start of the semester, giving their reasons for this.
8. If a student has taken a subject (or part of a subject) for which a practical exercise will be given, without having registered for this subject correctly or on time, any given assessment is invalid. The student may submit a written request to the Board of Examiners asking for a valid assessment and explaining their reasons. The Board of Examiners will only honour such a request in the event of exceptional circumstances.
9. Registration for a subject does not count as registration for an examination. Students must register for examinations separately in accordance with the relevant provisions.

Article 12b – withdrawal from a subject

1. Students may withdraw from a subject at any time, via Osiris. Such a withdrawal is final.
2. A student who has withdrawn from a subject and wishes to take it at a following opportunity must re-register for the subject in accordance with the provisions of Article 12a.

Article 13 - Registration for written examinations

1. Registration to participate in a written examination is compulsory and is done by entering the requested data into Osiris no later than 14 calendar days before the examination. Students receive examination tickets by email as confirmation of their registration.
2. Students who have not registered within the term specified in Section 1 may request registration for that examination after this term until no later than three calendar days before the examination by entering the requested data into Osiris. The request will be honoured providing that places are available in the room or rooms where the examination is scheduled to take place. Students receive examination tickets by email as confirmation of their registration.
3. In the event of circumstances beyond a student's control resulting in the student being unable to register for an examination, the Board of Examiners may nevertheless permit the student to participate in the examination.
4. Students who have not registered for the examination and are therefore not included on the list of examinees can report on the day of the examination to the invigilator beginning 15 minutes before the start of the examination until the actual start. They will be admitted to the examination room, in the order that they reported to the invigilator, 30 minutes after the start of the examination, if sufficient places are available. The loss of 30 minutes of examination time cannot be compensated. Students who have been granted late access to the examination will be added to the list of examinees. The student participates in the examination subject to the validation of entitlement to participate in the examination.
5. In the situation described in the previous section, if it is found that a student was not entitled to participate in the examination, the examination work will be deemed invalid, it will not be marked and it will not count towards a result. The student may subsequently submit an appeal to the Board of Examiners, accompanied by reasons, requesting that the examination work that has been deemed invalid be declared valid and to have it assessed. The Board of Examiners will approve the request only in case of extenuating circumstances.

Article 14 - Registration for other examinations

1. Registration for participation in an examination other than a written examination is compulsory, and it is done in the manner and within the term that is stated in the study guide or on Brightspace or in the Implementation

Regulations for the relevant examination. The information must be published within a reasonable time before the start of the course.

2. In special cases, the Board of Examiners make exceptions to the registration term stated in Section 1, but only in favour of the student.
3. Students who have not registered on time will not be allowed to participate in the examination. The Board of Examiners can nevertheless admit a student to the examination, but only in case of special circumstances.
4. In the event of unauthorised participation in an examination, the Board of Examiners may declare the result invalid.

Article 15 - Withdrawal from examinations

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

Paragraph 5 – Examinations

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

1. Examinations (oral, written or otherwise) are taken in the manner described in the Implementation Regulations or the study guide.
2. The Implementation Regulations or study guide contains a description of the moments at which and the numbers of times that examinations can be taken, along with their frequency, without prejudice to the provisions of these regulations concerning written and oral examinations.
3. A student may participate in an examination for a subject no more than twice in one academic year.
4. In special cases, the Board of Examiners will deviate from the provisions of the above sections 1 to 3 in favour of the student.
5. In order to allow students to prepare themselves for written examinations, at least 2 weeks in advance of a written exam, the examiner will provide practice material representative of the form and level of exam questions. In addition, during the course the examiner provides guidelines on how to best answer representative exam questions.

Article 16a – Sequence of examinations

5. The sequence in which a student is required to take examinations and participate in practicals is laid down in the Implementation Regulations.
6. Entrance requirements have been set with regard to some of the course units (practicals, examinations and projects), which have been set out in the Implementation Regulations. If the student has not been admitted, no valid result for that course unit can be obtained.

Article 17 – Times and number of written examinations

1. Two opportunities to take written examinations will be offered each academic year:
 - at the end of the teaching period in which the subject is taught, and
 - in the fifth week or at the end of the next teaching period or during the resit period in the months of July and August.
 - the second exam opportunity for the period 4 courses and the third year major courses are scheduled during the summer resit period.

2. An annual timetable is issued detailing when written examinations may be taken, and it is published before the start of the relevant teaching period, or before the mandatory registration period as defined in Article 12a.4. \
3. Contrary to the provisions in Section 1, the opportunity to take the written examination for a subject that is not taught in a certain academic year must be given at least once in that year.

Article 18 - Oral examinations

1. For oral examinations, no more than one student shall be tested at a time, unless determined otherwise by the examiner.
2. Oral examinations shall be public, except in special cases in which the Board of Examiners has decided otherwise, or if the student has filed an objection to the publicity of the examination.
3. The oral examination is administered by at least two examiners.
4. Prior to an oral examination, the examiner must ask the student to provide proof of identity.

Article 19 - Determination and announcement of results

1. The examiner determines the result of a written examination as quickly as possible but by no later than 15 working days after the examination.
2. If there is a dependency relation between interim examinations, the examiner determines the result of the interim examination no later than five working days before the next written interim examination. If there is no dependency relation, subsection 1 applies to the interim examination.
3. The examiner determines the result of an oral examination immediately after it is administered and issues the student with a written statement of this result.
4. The examiner records the results of the assessment of a practical exercise as quickly as possible, but the results will be made public no later than at the last day of the period (including examinations) following the period in which the practical took place. For practicals or projects in the fourth period the results will be made public not later than at the last day of the examination period in August. In Osiris, the result will be dated on the date of completion of the practical exercise. With regard to a series of practical exercises in which the knowledge acquired in a previous practical exercise is important to the subsequent practical exercise, the result of the previous practical exercise shall be announced before the subsequent practical exercise. If this is not possible, the examiner shall schedule a timely discussion of the previous practical exercise.
5. The examiner is responsible for the registration and publication of the results in Osiris, with observance of the student's privacy. When the result of an examination is announced, the student is informed about the right of perusal as stipulated in Article 20 as well as about the possibility of appealing to the Examinations Appeals Board.
6. Contrary to the previous provisions, results achieved in written bachelor examinations in the resit period in August shall be registered and published no later than the last working day of the week following the examination week in August.
7. If special circumstances prevent the examiner from registering the results on time, the examiner will report this to the Board of Examiners, accompanied by reasons, and notify the students and student administration as quickly as possible.
8. Examiners may set deadlines for delivery of reports, depending on the practical. The deadlines must be published within a reasonable time in the study guide and/or on Brightspace.
9. If a grade for a practical or project is a fail grade, the lecturer decides how the deliverable (e.g. report, paper) can be amended and a pass grade can be obtained. The student and lecturer determine a reasonable term for adding to and correcting the deliverable (e.g. report, paper). The length of this term will not exceed one teaching period.

Article 20 - Right to inspect results

1. Upon request, students will have the right to inspect their assessed work during a period of at least 20 working days after the announcement of the results of a written examination or the assessment of a practical exercise. Students intending to appeal against the assessment of their work will be issued with a copy of the assessed work.
2. During the period mentioned in Section 1, all students who have participated in the examination can become acquainted with the questions and assignments of the relevant examination, as well as with the standards that form the basis of the assessment.
3. The examiner can determine that the inspection or cognizance intended in Sections 1 and 2 will take place at a pre-established place and at a pre-established time.
4. Students proving that they were unable to appear at such an established place and time because of circumstances outside of their control will be offered another possibility, if possible within the period mentioned in Section 1. The place and times mentioned in the first sentence will be made known in good time.

Article 21 - Discussion of the results of examinations

1. Students who have taken a written examination or who have received the assessment of a practical exercise can ask the relevant examiner for a discussion of the results during a period of 20 working days after the announcement of the results. The discussion will take place within a reasonable period, at a place and time to be determined by the examiner.
2. At the request of the student or at the initiative of the examiner, a discussion justifying the assessment will take place between the examiner and the student as soon as possible after the announcement of the result of an oral examination.
3. If a collective discussion is organised by the examiner, students may submit requests as referred to in the last section only if they have been present at the collective discussion and have motivated their requests, or if they were unable to be present at the collective discussion because of circumstances outside their control.
4. The Board of Examiners may allow deviation from the provisions in Sections 2 and 3.

Article 22 - Period of validity for examinations

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

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

1. After having obtained recommendations from the relevant examiner, the Board of Examiners may grant exemptions to students:

- a. who have successfully completed an examination or degree audit in a system of higher education within or outside the Netherlands that corresponds to the examination for which the exemption has been requested in terms of content and level, or
 - b. who demonstrate that they possess sufficient knowledge and skills that have been acquired outside the system of higher education.
2. After having obtained recommendations from the relevant examiner, the Board of Examiners may grant exemption from the requirement to participate in a practical exercise with a view to admission to the related examination, possibly subject to alternative requirements.
 3. No exemption will be granted for the Design Synthesis Exercise or the MSc graduation project.
 4. Students seeking to receive credit for extra-curricular student projects in the MSc programme or who seek to receive an exemption based on participation in extra-curricular student projects can only submit their well-motivated request prior to the start of the project. The request should clearly state how the learning objectives of the course for which the exemption is requested are met. No exemptions will be granted for requests submitted after the start of the extra-curricular student project.

Article 24 - Periods and frequency of degree audits

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

Article 24a - invalidation of examination

The Board of Examiners is authorised to declare invalid an examination or an examination component, if a correct assessment of the knowledge, insight and skills of the student has been proved reasonably impossible, based on the examination or that component. The Board of Examiners may draw up further rules for this.

Paragraph 6 – Studying with a disability

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

1. Upon a written and substantiated request to that effect, students with disabilities or chronic illnesses may be eligible for adjustments in teaching and examinations. These adjustments are coordinated to the situations of the students as much as possible, but they may not alter the quality or level of difficulty of a subject or the study programme. Facilities to be provided may include modifications to the form or duration of examinations and/or practical exercises to suit individual situations or the provision of practical aids.
2. Requests as mentioned in Section 1 must be accompanied by a recent statement from a physician or psychologist or, in cases involving dyslexia, from a testing office registered with BIG, NIP or NVO. If possible, this statement should include an estimate of the extent to which the condition is impeding the student's academic progress.
3. Decisions concerning requests for adjustments relating to educational facilities are taken by the Dean or by the Director of Studies on the Dean's behalf. Decisions concerning adjustments relating to examinations are taken by the Board of Examiners.
4. Adjustments to examinations can involve the following or other matters:
 - form (e.g. replacing a written test with an oral test or vice versa, testing the required material in the form of interim examinations or granting exemptions to the attendance requirement);
 - timing (e.g. additional time for an examination, wider staggering of examinations across the examination period, granting exemptions to admission requirements or extending the period within which a component must be completed);

- aids permitted during testing (e.g. English-Dutch dictionaries for students with dyslexia);
- location (taking the examination in a separate, low-stimulus space).

5. Adjustments in educational facilities could include:

- providing modified furniture in teaching and examination spaces;
- providing special equipment (e.g. magnification or Braille equipment for students with visual impairments and blindness or loop systems and individual equipment for students with hearing impairments and deafness);
- providing more accessible course material;
- providing special computer facilities (e.g. speech-recognition or speech-synthesising software);
- providing a rest area.

Paragraph 7 - Study support and (binding) recommendation on the continuation of studies

Article 26 – Study support and Monitoring of student progress

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

**Article 27 – (Negative) binding recommendation on the continuation of studies
ONLY FOR BACHELOR'S DEGREE PROGRAMMES**

1. No later than the end of the first year of enrolment for the degree programme, all students who have not terminated their enrolment before 1 February of that academic year will be issued a recommendation by the Dean concerning the continuation of their studies within or outside the degree programme. The Dean will issue every student enrolled for the first time in the first study year of the degree programme with the following:
 - a preliminary recommendation (which also serves as a warning) in March;
 - a proposed binding recommendation on the continuation of studies in early August or a definitive positive recommendation on the continuation of studies;
 - a definitive (positive or negative) binding recommendation on the continuation of studies no later than 31 August.
2. Any student who has secured fewer than 45 credits by the end of the first year of study (date of final results: 31 August) will be issued with a negative binding recommendation on the continuation of studies. This student's enrolment will be terminated with effect from the first of the month following the date of the decision in which the recommendation was included, but no earlier than 1 September of the year following the first year of study.
3. Students who have been granted exemptions for more than 15 credits in their first academic year that do not apply to the standard of 45 credits, based on Section 6 of this Article, shall not be required to earn 45 credits in the first year, although they are required to have completed the entire first academic year.
4. For programmes offered jointly with another institution, the required standard will be determined in consultation with the institution in question.
5. Termination of enrolment, as stipulated in the first section, leads to exclusion from the programme for four academic years after the academic year for which the recommendation was issued.
6. The 45 credits originate from the programme for the first year of study in the degree programme in which the student is enrolled. Only credits for complete subjects count towards the standard of 45 credits. Thus, if one component of a subject is passed, but the other component is not, and there is no weighted average 5.75 or higher, the credits of the component which is passed are not counted for the Binding Recommendation on the continuation of studies (BSA).
7. If the student has been awarded exemptions, they may be counted towards the required standard of 45 credits if the activity on the basis of which the exemption was awarded took place in the same academic year as the year for which the binding recommendation on the continuation of studies was issued. The

exemptions may not be counted if the activity, on the basis of which the exemption was awarded, took place prior to the academic year for which the binding recommendation on the continuation of studies was issued.

8. If the Dean judges that a student was unable to achieve the required standard of 45 credits as a result of personal circumstances, the Dean will permit said student either to achieve the standard of 45 credits from the programme for the first year of study in the degree programme in which the student is enrolled in the following academic year, with credits secured in the first year of study not counting towards this, or to complete the first year of study in its entirety.
9. If the Dean judges that enrolment after 1 October has had such an influence that a student was unable to achieve the required standard of 45 credits, the Dean will permit said student either to achieve the standard of 45 credits from the programme for the first year of study in the degree programme in which the student is enrolled in the following academic year, with credits secured in the first year of study not counting towards this, or to complete the first year of study in its entirety.
10. Students who started their studies in September 2018, but de-registered before February 2019 did not receive a negative BSA but are allowed to register for 2019-2020. These students have to obtain 45 EC on top of the EC obtained in 2018-2019, or complete their first year. Only complete modules count towards the 45 EC. If a component of the module is passed in the previous year, and the module will be completed in the current academic year, this module will count for the BSA.

Paragraph 8- Final provisions

Article 28 - Conflicts with the regulations

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

Article 29 - Amendments to the regulations

1. Amendments to these regulations are adopted separately by the Dean.
2. Amendments that are applicable to the current academic year will be made only if they would not reasonably damage the interests of students.
3. Amendments to these regulations may not lead to disadvantageous changes to any decisions that have been made with regard to individual students.

Article 30 - Transitional measures

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

Article 31 - Announcement

1. The Dean is responsible for ensuring a suitable announcement of these regulations and the relevant Implementation Regulations and any amendments to them.

2. In any case, the Teaching and Examination Regulations together with the accompanying Implementation Regulations are to be posted on the programme's website.

Article 32 - Entry into force

These regulations shall enter into force on 1 September 2019.

Adopted by the Dean of the faculty on 31 August 2019.

APPENDIX to Art. 3 of the TER (for Bachelor's degree programmes)

Language level for individuals holding a foreign degree (c)

ONLY FOR BACHELOR'S DEGREE PROGRAMMES TAUGHT IN ENGLISH

- The English language, through the successful completion of one of the following tests:
 - A TOEFL iBT (Test of English as a Foreign Language internet-Based Test), with an overall band score of at least 90
 - an IELTS (Academic version) with an overall band score of at least 6.5, or
 - a proof of completion of the Cambridge Assessment in English. Only the following certificates are accepted:
 - * C1 Advanced (Certificate of Advanced English) with an overall score of at least 176.
 - * C2 Proficiency (Certificate of Proficiency in English) with an overall score of at least 180.

Note: Certificates older than two years are not accepted.

People's Republic of China nationals:

For visa purposes students need a Nuffic certificate as proof of English language proficiency, t. In order to obtain the Nuffic certificate students need to take the IELTS or TOEFL internet-based test

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

- Nationals from the USA, UK, Ireland, Australia, New Zealand, Canada and Surinam
- Applicants with an International Baccalaureate, European Baccalaureate diploma, or European secondary school diploma (pre-university certificate), or Surinam VWO considered equivalent to the Dutch pre-university education, with English as a final examination subject. Please note that a 'pass' (sufficient score) for English is required on the secondary school certificate.

APPENDIX to Art. 3 of the TER (for Master's degree programmes)

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

The English language, through the successful completion of one of the following tests:

- A TOEFL iBT (Test of English as a Foreign Language internet-Based Test) with an overall band score of at least 90, or
- an IELTS (academic version) with an overall Band score of at least 6.5, or
- a proof of completion of the Cambridge Assessment in English. Only the following certificates are accepted:
- * C1 Advanced (Certificate of Advanced English) with an overall score of at least 176.
- * C2 Proficiency (Certificate of Proficiency in English) with an overall score of at least 180.

Note: Certificates must have been completed successfully before the start of the bridging programme.

The following candidates shall be exempted from the requirement to pass an English language test:

- Nationals from the USA, UK, Ireland, Australia, New Zealand and Canada
- Applicants with a Dutch Pre-university (VWO) certificate
- Applicants who have obtained a higher professional education degree in an English-language programme.

Language level for individuals holding a foreign degree (d)

The English language, through the successful completion of one of the following tests:

- A TOEFL iBT (Test of English as a Foreign Language internet-Based Test) with an overall band score of at least 90 and a minimum score of 21 for each section, or
- an IELTS (academic version) with an overall Band score of at least 6.5 and a minimum score of 6.0 for each section, or
- a proof of completion of the Cambridge Assessment in English. Only the following certificates are accepted:
- * C1 Advanced (Certificate of Advanced English) with an overall score of at least 176 and a minimum of 169 for each section.
- * C2 Proficiency (Certificate of Proficiency in English) with an overall score of at least 180 and a minimum of 169 for each section.
-

Note: Certificates older than two years are not accepted.

The following candidates shall be exempted from the requirement to pass an English language test:

- Nationals from the USA, UK, Ireland, Australia, New Zealand and Canada
- Applicants who have obtained a Bachelor's degree in one of the aforementioned countries are also exempted from the English language proficiency requirement .

APPENDIX to Art. 3 of the TER (for Master's degree programmes)

Admission criteria EWEM (Rotor Design Track)

1) Candidates must have obtained a BSc diploma of substantial quality and level corresponding to at least 3 years studies at University, equivalent to 180 ECTS.

2) The programme builds upon a first degree such as a Bachelor's degree or an equivalent qualification in a related field. The four tracks have different degree requirements.

For the Rotor Design track applicants must hold a Bachelor's degree in either Mechanical, Aerospace Engineering, Physics or a degree with equivalent core content.

3) Proof of English language proficiency (certificates older than two years are not accepted)*:

For the tests accepted and the scores required see Appendix to Art. 3.

*An exception is made for students from DTU, TU Delft, NTNU Trondheim or the University of Oldenburg who have successfully completed a BSc or MSc.

4) The applicant's qualifications must include a strong working knowledge of mathematics and experience in programming and applicants must document that they have fulfilled the following minimum requirements (if not explicit in the names mentioned on the transcripts, extra documentation is required!):

- Mathematics: 25-30 ECTS
- Physics: 10-15 ECTS
- Engineering design methodology: 5-15 ECTS
- Programming experience (Matlab, Python, or similar) using numerical methods for solving applied mathematical problems (you'll have to document it by mentioning courses in transcript and in CV under 'Skills').

5) For the track Rotor Design, students must document the following minimum requirements (if not explicit in the names mentioned on the transcripts, extra documentation is required!):

- Statics, mechanical vibrations, and strength of materials: 10-15 ECTS
- Fluid mechanics, engineering thermodynamics, hydrodynamics and heat transfer: 10-15 ECTS
- Materials science, and production technology: 10-15 ECTS

6) A working knowledge at bachelor level of at least four of the following five subjects is prerequisite for the central courses of the MSc program (if not explicit in the names mentioned on the transcripts, extra documentation is required!):

- Engineering design methodology
- Statics, mechanical vibrations, and strength of materials
- Fluid mechanics

7) Applicants that are enrolled in an integrated five year degree with no bachelor entry level must have passed 180 ECTS and will be evaluated on an individual basis.

8) BEng graduates are assessed on an individual basis.

9) For all tracks, a BSc Cumulative Grade Point Average (CGPA) of at least 75% of the scale maximum, unless specific requirements are defined for the country in which you obtained your Bachelor's degree:

Countries A – Z – see admission [website](#)

Preliminary transcripts are acceptable when applying, but the final degree certificate is required before the start of the programme (note for students in need of a Danish visa: Danish regulations require proof of completion of a full degree by July 1st of the year the programme starts). Applicants with an MSc and/or professional experience will be assessed on an individual basis.

Note: students with a TUD Bachelor's degree must submit their TUD transcript including CGPA statement (request transcript at the Service desk of the faculty).

10) In the essay (see application webpage), it must also be explained why the applicant is interested in EWEM and the partner universities.

11) When evaluating the application, the lack of one or more of these requirements will be weighed against the other qualifications of the applicant, and possible admission might be considered.

Note: EWEM applicants do not have to take the GRE test.