MSc in Biomedical Engineering

Official title

Civilingeniør, cand. polyt. (Medicin og Teknologi)
Master of Science in Engineering (Biomedical Engineering)

About the Programme Specification

This programme specification revised by 1 September 2019 applies for all students enrolled in the programme.

Students enrolled from 1 September 2019 will find their curriculum in the paragraph "Curriculum".

Students enrolled prior to 1 September 2019 may find additional information to the curriculum in the paragraph "Curriculum, previous admission years.

The programme specification also includes the course descriptions in DTU's course database, which states rules pertaining to both the programme specific and eligible courses in the programme.

- Official title
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- Duration
- General admission requirements
- Programme specific admission requirements
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The programme specifications are laid down by DTU in accordance with Ministerial Order on Bachelor and Master’s (Candidatus) Programmes at Universities No. 1520 of December 16th 2013, with subsequent amendments, Ministerial Order on the International Education Activities of Universities No. 247 of March 13th 2015 and Ministerial Order on the Grading Scale and Other Forms of Assessment of Study Programmes Offered under the Ministry of Higher Education and Science (the Grading Scale Order) No. 114 of February 3rd 2015. In accordance with DTU’s regulations section 11.8 the curricula have been approved by the Dean of Graduate Studies, authorized by the President.

Duration

The Master of Science in Engineering programme is a 2-year programme equivalent to 120 ECTS point (European Credit Transfer System).

Specific rules apply for the Corporate MSc Eng Programmes in Civil Engineering plus Computer Science and Engineering. These programmes combine work with studies and are part-time studies where the 120 ECTS points are obtained over a 4-year period.

General admission requirements

Only applicants holding either a relevant Bachelor of Science in Engineering, a Bachelor in Engineering or a Bachelor of Natural Science degree can be admitted to a Master of Science in Engineering programme. The bachelor degree must be less than 10 years old.

The individual MSc Eng programme states in detail which bachelor programmes qualify and whether applicants have to complete supplementary educational activities.

Requirements for supplementary educational activities can equate to up to 30 ECTS credits and are specified in the form of a list of courses under the individual MSc Eng programmes.

The specific requirements must be met before graduating from the bachelor programme or in connection with conditional admission to a particular MSc Eng programme. The courses must be passed prior to the commencement of studies within one year from the conditional admission.

Supplementary educational activities in connection with conditional admission to an MSc Eng programme do not form part of the MSc Eng programme, and partial tuition fees are charged. If the supplementary courses have not been passed within the deadlines specified, the conditional admission to the programme is withdrawn.
The Master of Science in Engineering programmes are offered in English. Therefore applicants must demonstrate proficiency in English (B-level, IELTS, TOEFL-, CAE or Pearson test). From Spring 2020 the minimum grade of English B-level is 3.0 (on the Danish grading scale).
https://www.dtu.dk/english/education/msc/admission-and-deadlines/language_test_requirements

DTU offers Honours Programme as part of all MSc Eng. programmes. The admission requirements are described at http://www.dtu.dk/english/education/msc/honours-programmes

**Academic requirements for this programme**

1 Bachelor of Science (BSc) in engineering from DTU

1.1 BSc in engineering from DTU/KU’s Biomedical Engineering programme

   Qualify directly.

1.2 BSc in engineering from DTU/KU’s Quantitative Biology and Disease Modeling programme

   Qualify directly provided that course 31605 Continuous Time Signals and Linear Systems has been passed.

Applicants should be aware, that depending on the focus area they choose, additional prerequisite courses may be needed. Students should consult the course database for the technological specialization courses that they plan to take. Examples are: The focus area Medical Imaging and Radiation Physics: 31540 Introduction to medical imaging. The focus area Biomedical signal processing: 31561 Applied signal processing. The focus area Biomechanics: 41650 Materials Science, 41501 Strength of Materials, 31520 Physiological fluid mechanics and 31522 Physiological and pharmacological mass transport.

*Please also read “Additional requirements for all applicants” below in Section.*

1.3 BSc in engineering from the following DTU programmes

- Electrical Engineering
- Physics and Nanotechnology
- Mathematics and Technology
- Mechanical Engineering
- Chemistry and Technology
- General Engineering (Living systems)
- Artificial Intelligence and Data

may be admitted based on an individual assessment and provided the following courses have been passed
• 02402 Introduction to Statistics (5 ECTS) and
• 24001 Human Physiology (5 ECTS) and
• 27002 Life Science (5 ECTS)
• 01035 Matematik 2 (5 ECTS).

Course 24001 and 27002 may be replaced by

• KU002 Human Biology (10 ECTS) and
• KU003 Human Diseases for Non-Clinicians (10 ECTS).

For most students, it is important to emphasize, that it will be an advantage to take KU002 and KU003 instead of 24001 and 27002.

Please also read “Additional requirements for all applicants” below in Section 3.

2 Bachelors of science in engineering, bachelor of natural science (bacheloruddannelse i naturvidenskab) from other universities

BSc in engineering from other universities than DTU may qualify based on an individual assessment and provided that the applicant holds credits in the following areas:

• 10 ECTS Mathematics for technical sciences
• 10 ECTS Physics for technical sciences
• 5 ECTS Chemistry
• 10 ECTS Human physiology, anatomy, cell biology
• 5 ECTS Programming
• 5 ECTS Statistics

and also adhere to the “Additional requirements for all applicants” listed below in Section 3.

2.1 Specific programmes

The above bullet list of six subject areas is specified in details for a number of specific programs listed below:

2.1.1 BSc in Welfare Technology from University of Southern Denmark

Qualify when the bullet list of six subject areas listed above is met.

2.1.2 BSc in Healthcare Technology from Aalborg University

Qualify when the bullet list of six subject areas listed above is met.

2.1.3 Bachelor of Healthcare Technology engineering from Aarhus University
Qualify when the bullet list of six subject areas listed above is met.

2.1.4 Bachelor of engineering (Healthcare Technology) from DTU (diplomingeniør)

Qualify, when the bullet list of six subject areas listed above is met as follows:

- 01035 Advanced Engineering Mathematics 2 (5 ECTS) or
- 01920 Calculus and Algebra 2 (5 ECTS) or
- 01037 Advanced Engineering Mathematics 2 (5 ECTS)

- 62745 Electrophysics and Materials (10 ECTS) or
- 10916 Physics 1 (5 ECTS) and 10044 Physics 2 (5 ECTS)

- 26027 Fundamental chemistry (5 ECTS) or
- 26000 General chemistry (5 ECTS) or
- 26050 Introductory chemistry for life sciences (5 ECTS) or
- 26171 General chemistry (5 ECTS) or
- 62748 General and electrochemistry (5 ECTS) or
- 62565 Applied electrochemistry

It is strongly encouraged, that the above is supplemented by the following:

- KU006 Introduction to clinical practice in Hospitals or
- The internship conducted at a hospital department.

The head of studies can grant an exemption for 01035/01037 based on an individual assessment.

2.1.5 Bachelor of engineering (except Healthcare Technology) from DTU (diplomingeniør)

The requirements in section 2.1.4 apply, plus these requirements:

- 10 ECTS Human physiology, anatomy, cell biology and
- 5 ECTS in programming and
- 5 ECTS in statistics.
3 Additional requirements for all applicants (except DTU/KU’s Biomedical Engineering programme)

The MSc programme in Biomedical Engineering requires a sound knowledge of mathematics, physics, human biology and diseases as well as a range of specialization areas within biomedical engineering.

Applicants are therefore expected to review the contents of the mandatory courses and the desired technological specialization courses in the MSc programme and make sure that the necessary requirements are met, or will be, in good time before starting the programme.

The applicants are expected to be able to understand and learn new programming languages without teaching assistance.

Applicants are also recommended to have passed a bachelor project within the biomedical engineering field. When applying, the applicants should include a letter clearly describing:

- their motivational for applying to this programme (maximally one A4 sheet) and
- how the course requirements listed (typically the list of 6 bullets) in this document are met and
- their planned area of specialization and give an account of how their bachelor may qualify them for this area of specialization.

This letter should also:

- specify all courses taken by their correct name together with the course code given by the university at which it was taken
- contain date, full name, address and other relevant information.

Finally, for the entire application:

- all documents MUST be in pdf-format.

4 Appendix: Human physiology etc

When considering how to obtain credits in the area of human physiology, anatomy, etc, you can look at these links in general:

- kurser.dtu.dk
- kurser.ku.dk

And these in particular:

- http://kurser.dtu.dk/course/24001
- kurser.ku.dk/course/shua13004u
Note: If you decide to become a credit transfer student at The Faculty of Health Sciences, University of Copenhagen (KU SUND), please visit this webpage: healthsciences.ku.dk/education/other-programme-options/credit-transfer-students and familiarize yourself with the guidelines.

Objectives

The Master of Science in Engineering programme has two central objectives:

- Academic cutting-edge competencies which are the result of a clear study progression and which are unique to the graduate. The academic competencies contain elements of actual research and are manifested in the final master thesis
- Polytechnic holistic competencies that, in addition to an identity-creating professionalism, also include being able to gain an overview of a complex technical problem and being able to think in technical terms in commercial and societal contexts

A MSc in Engineering programme from DTU is a research-based education at the highest technological level, which qualifies the holder to take on knowledge-intensive positions in the business community and society that are distinguished by a high level of scientific development. Moreover, the MSc in Engineering qualification allows the holder to continue his/her education in the field of research (research-based programmes, PhD).

The holder of an MSc in Engineering has the competencies required to analyse, synthesize and evaluate theory and experiments relating to complex and complicated engineering systems, issues and solutions for the benefit of society.

Shared academic goals for learning outcome

Knowledge and understanding
A graduate of the MSc Eng. programme from DTU

- has a solid understanding of and a firm base of knowledge in natural sciences and technological principles, possesses comprehensive knowledge within a given subject area, and is familiar with the current development trends and opportunities within the academic area
- can identify and reflect on technical scientific issues and understand the interaction between the various components of an issue
- can, based on a clear academic profile, apply elements of current research at international level to develop ideas and solve problems
- has insight into and understanding off the internal interaction between the various engineering domains and other competencies in connection with solving specific engineering problems
- possesses knowledge about sustainability, innovation and entrepreneurship

Skills
A graduate of the MSc Eng. programme from DTU
masters technical scientific methodologies, theories and tools, and has the capacity to take a holistic view of and delimit a complex, open issue, put it into a broader academic and societal perspective and, on this basis, propose a variety of possible actions

• can, via analysis and modelling, develop relevant models, systems and processes for solving technological problems
• can communicate and mediate research-based knowledge both orally and in writing
• can discuss technological issues with various types of stakeholder
• is familiar with and can seek out leading international research within his/her specialist area

Competencies
A graduate of the MSc Eng. programme from DTU

• masters technical problem-solving at a high level through project work, and has the capacity to work with and manage all phases of a project – including preparation of timetables, design, solution and documentation
• can work independently and reflect on own learning, academic development and specialization
• can independently combine his/her technological knowledge with knowledge about business, management, organization and project work

The MSc Eng. programme qualifies the graduate to hold positions in the private and public sectors, the consulting industry or to apply for research training with a view to earning a PhD.

Programme specific competence profile

A Master of Science in Biomedical Engineering can

• account for the causes of the occurrence of diseases, their biology, their progression, and their consequence on the function of the organism
• account for the methods and equipment currently utilized in the different hospital departments, including accounting for the technical/physical principles applied in the technologies utilized
• account for all phases in the development of a product or method, from initial idea to sale
• account for assignments, challenges and methods in project management, and apply same in the planning and management of engineering-oriented company projects
• place principles and fundamental ideas for diagnosis and treatment methods in direct relation to the pathophysiological knowledge base of diseases
• incorporate considerable knowledge about clinical practice in major hospital departments in the development of new methods and products, such that these become both efficient and user-friendly for all relevant professional groups
• purchase, test, use, maintain and evaluate modern medical diagnostic equipment
• design and implement all phases and methods in the clinical testing of new products, procedures and materials, including the design of statistically valid trials
• establish and lead a team of project assistants
enter into commercial, clinical or research development environments and—both independently and as part of an interdisciplinary partnership—develop new solutions to healthcare issues
• keep up to date with the latest knowledge about the form, function, operation, illness and tolerance of organs and tissue, and on the basis of same take the lead in developing gentle yet effective products, methods and materials for diagnosis and/or treatment
• keep up to date with the latest knowledge with regard to techniques and methods for illness diagnosis and treatment, and assess their relevance and significance to future input
• on account of his/her high level of interdisciplinary knowledge, contribute to research at international level with a view to utilizing new landfalls in the fields of natural science and engineering in the context of healthcare issues
• for new and untested analyses on patients, independently select and compile components in a diagnosis system, and validate the accuracy and reproducibility of the measured data
• act as the driving force behind the development of new, technology-based treatment methods, and take responsibility for the approval, utilization, maintenance and validation of same
• independently formulate and execute a medico-technological research project, and present the results and put them into perspective, orally and in writing, in both Danish and English

Focus areas

Medical imaging and radiation physics

The MSc graduate can

• demonstrate in-depth theoretical and practical knowledge of image diagnostics involving CT, ultrasound, x-ray, digital angiography, MR, PET and nuclear medicine, from physical principles to diagnostic information
• account for methods for data collection and processing in medical imaging systems, and can implement this in practice
• demonstrate fundamental theoretical and practical knowledge of isotopes used in the major diagnostic medical specializations and can calculate internal dosimetry using models and simulations

Biomedical signal processing

The MSc graduate can

• account for the origin and medical interpretation options of biosignals, and can establish mathematical-physical models for the signal sources
• account for advanced measurement methods and establish mathematical-physical models for their principles
• develop new and advanced signal handling methods for processing mono and multi-dimensional biomedical signals, including signals from different origins and validate the accuracy and reproducibility of the measured data

Bioinstrumentation

The MSc graduate can

• account for the function and operation of advanced instruments and tools, and for the use of same in practical measurement situations
• identify electrical and mechanical components and explain their operating principle
• demonstrate correct use of test equipment and hand tools for repair of electro-mechanical equipment
• conduct an electric safety assessment of a medical equipment

Biomaterials

The MSc graduate can

• apply material scientific concepts to the characterization of polymers, silicones, hydrogels, metals, ceramics and composites
• for a given use of a biomaterial, select material type on the basis of an assessment of cell material interactions, inflammation, wound healing and immune response

Biomechanics

The MSc graduate can

• account for the function and performance of the locomotive apparatus in normal walking and during more complex movements - such as running and jumping - through the use of concepts and methods from inverse dynamics
• set up mathematical-physical models for both fluid and solid mechanics and solve them with analytical methods in issues involving simple geometric conditions
• carry out load analyses with linear models for small deformations, and non-linear models for large deformations, using analytical methods and the finite element method
• analyse the function of the locomotive apparatus, the effect of orthopaedic surgery, forensic medical issues, and plan rehabilitation through the use of motion analyses and simulation

Transport phenomena within the body

The MSc graduate can

• formulate mathematical-physical models for the mechanical properties of biological fluids, including their viscosity
• formulate mathematical-physical models for the transport of matter by diffusion, osmosis and through advection, including the transport of respiratory gases in lungs, the blood stream and tissue
• develop models and simulate the transport of matter in blood circulation, in the respiratory system and in tissue

Cellular signalling

The MSc graduate can

• apply kinetic equations to simple biochemical reactions
• model collective behaviour of cells, e.g. in bacterial biofilms
• analyse dynamics of bacterial colony or organ formation

Biomodelling
The MSc graduate can

- formulate mathematical-physical models for the analysis and computer simulation of the function of organs and tissue, and use same to contribute to identifying measurable features with the potential to generate new information for the elucidation and treatment of illnesses
- develop measurement methods on the basis of a valid mathematical-physical models
- formulate and simulate new models of advanced linear and non-linear physiological systems

Structure

The MSc Eng programme is a research-based technological programme at elite level aimed at qualifying the graduate for a knowledge-intensive position in industry and the business sector and in society in general. Graduates obtain the title Master of Science in Engineering in the given engineering field.

The MSc Eng has a workload of 120 ECTS credit points. The programmes comprise four categories of courses: General competences, Technology specialization, Electives and Thesis. If students choose more than the required credits in the groups with mandatory courses, the credits count as elective courses.

General Competence Courses

The General Competence Courses have a broader scope than the specialist competencies. The primary purpose is to ensure that a series of competences – in association with the individual specialization – are obtained by all candidates. The following three considerations must be emphasized:

- A generalist point of view, where technology is combined with economics, management, organization and project work, and where the key is to have a technical approach in a commercial and societal perspective
- A synthesis point of view concentrating on working with an open problem where teamwork and cooperation, especially interdisciplinary work, are a key element
- Normative technical skills that formulate a common academic identity for the degree program and/or indicate the academic point of departure and level of the program

The polytechnic holistic competencies that are cited as one of the two central objectives for the MSc program can be obtained in many ways, but the contents of the study program’s General Competencies outlined here ensure that the central aspects of these competencies are part of the course of study, depending on how the Technological Specialization and MSc thesis are undertaken.

Technological Specialization Courses

The Technological Specialization and MSc Thesis together represent the basic foundation for achieving the academic cutting-edge competencies. The specific courses offered within the Technological Specialization are dynamic and will constantly reflect (potential) technological developments.

Elective Courses

The Elective Courses, which include all MSc courses at DTU, provide an opportunity for master students to either focus even more on their chosen area of specialization or to supplement the academic specialization with general disciplines/competencies. Master students may choose as
much as 10 credit points among the bachelor courses at DTU and courses at an equivalent level from other higher institutions. Master students may also choose as much as 10 credit points within the general engineering courses category (meaning courses that do not have technical-scientific content but falls within the learning objectives of the study programme). However, bachelor courses and general engineering courses may not exceed 10 credit points in total.

**Master Thesis**
The Master Thesis is the final project of the course of study. In many cases, it will be possible for the Master Thesis to include collaboration with a company. The Master Thesis must as a minimum equal 30 ECTS credit points, but may be 32½ or 35 ECTS credit points. Please read the chapter “Master Thesis” for more information.

**Study Lines and Focus areas**
Within a MSc programme, there might be one or more study lines. A study line is a suggested combination of courses geared towards a specific aspect of a discipline. The specialization title will - when approved by the head of studies - be added on the diploma.

Focus areas are exclusively descriptive and will not be added on the degree diploma.

**Programme provision**
To obtain the MSc degree in Biomedical Engineering, the student must fulfil the following requirements:

- Have passed the General Competence Courses adding up to at least 30 points
- Have passed Technological Specialization Courses adding up to at least 30 points
- Have performed a Master Thesis of at least 30 points within the field of the programme
- Have passed a sufficient number of Elective Courses to bring the total number of points of the entire study to 120

**Study lines/focus areas**
You may take courses within these focus areas:

- Medical Imaging and Radiation Physics
- Biomedical Signal Processing and Bioinstrumentation
- Biomodelling, Cellular Signalling and Transport Phenomena
- Biomechanics and Biomaterials

More details can be found in the guide at:
Curriculum

General Competence Courses

Mandatory:

- **02411** Statistical Design and Analysis of Experiments 5 point Autumn E2A (Mon 13-17), Spring F1A (Mon 8-12)
- **22435** Biomedical product development 10 point Autumn E4 (Tues 13-17, Fri 8-12)
- **ku101** Pathophysiology 10 point Autumn E1 (Mon 8-12, Thurs 13-17)

Additional 5 points have to be chosen from the list of courses below (all the courses have course 02402 as a prerequisite):

- **02407** Stochastic Processes - Probability 2 5 point Autumn E3A (Tues 8-12)
- **02409** Multivariate Statistics 5 point Autumn E1A (Mon 8-12)
- **02417** Time Series Analysis 5 point Autumn E4B (Fri 8-12), Spring F4B (Fri 8-12)
- **02418** Statistical modelling: Theory and practice 5 point Autumn E4A (Tues 13-17)
- **02424** Advanced Dataanalysis and Statistical Modelling 5 point Spring F2A (Mon 13-17)
- **02429** Analysis of correlated data: Mixed linear models 5 point Autumn E2B (Thurs 8-12)
- **02441** Applied Statistics and Statistical Software 5 point January
- **02443** Stochastic Simulation 5 point June
- **02450** Introduction to Machine Learning and Data Mining 5 point Spring F4A (Tues 13-17), Autumn E4A (Tues 13-17)

Technological Specialization Courses

- **1081** Computational radiation dosimetry 5 point January
- **2200** Auditory signal processing and perception 10 point Spring F1 (Mon 8-12, Thurs 13-17)
- **2205** Principles of brain computer interface 5 point January
- **2205** Advanced signal processing with biomedical applications 10 point Autumn E3 (Tues 8-12, Fri 13-17)
- **2205** Personal portable health technologies 10 point Spring F2A (Mon 13-17) and Spring F2B (Thurs 8-12)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Starts</th>
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<tbody>
<tr>
<td>2222</td>
<td>Challenges in Clinical Sleep Research</td>
<td>5</td>
<td>January</td>
</tr>
<tr>
<td>2228</td>
<td>Biomaterials</td>
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<td>2244</td>
<td>Engineering World Health Summer School in biomedical instrumentation</td>
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<td>Outside schedule structure</td>
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<td>2245</td>
<td>Quantitative analysis in electrophysiology, pharmacokinetics, and tracer kinetics, MSc</td>
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<td>Medical imaging systems</td>
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<td>2250</td>
<td>Medical magnetic resonance imaging</td>
<td>5</td>
<td>Autumn E4A (Tues 13-17)</td>
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<td>2250</td>
<td>Practical NMR spectroscopy: Making reactions in (bio)chemistry visible</td>
<td>5</td>
<td>Autumn E1B (Thurs 13-17)</td>
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<tr>
<td>2251</td>
<td>Biomedical optics</td>
<td>5</td>
<td>Spring F4 (Tues 13-17, Fri 8-12)</td>
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<td>2252</td>
<td>Medical Image Analysis</td>
<td>5</td>
<td>Autumn E5A (Wed 8-12)</td>
</tr>
<tr>
<td>4165</td>
<td>Materials in advanced applications and products</td>
<td>10</td>
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<tr>
<td>4643</td>
<td>Experimental Material Characterization</td>
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<td>Spring F2A (Mon 13-17) and Spring F3B (Fri 13-17)</td>
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<td>Tissue and Movement Biomechanics (KU)</td>
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<td>ku10</td>
<td>Advanced Physiological Modelling</td>
<td>10</td>
<td>Autumn E5A (Wed 8-12)</td>
</tr>
<tr>
<td>ku18</td>
<td>Medical Use of Radiation</td>
<td>10</td>
<td>Autumn E5 (Wed 8-17)</td>
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<tr>
<td>ku18</td>
<td>Radioactive Isotopes and Ionizing Radiation</td>
<td>7.5</td>
<td>Spring F2A (Mon 13-17) and Spring F3B (Fri 13-17)</td>
</tr>
</tbody>
</table>

*KU = Course given at University of Copenhagen. Other courses are given at DTU.*

**Elective Courses**

Any course classified as MSc course in DTU’s course base may be taken for credit as an elective course. This includes general competence and technological specialization courses in excess of the minimal requirements. Master students are allowed to take Bachelor DTU courses with the objective to obtaining basic skills not originally obtained in the qualifying bachelor degree (maximum 10 ECTS)

**Blocked Courses**
Some of the mandatory courses offered at the University of Copenhagen overlap a number of courses offered at DTU as regards to content to a great extent. Therefore MSc students in Biomedical Engineering may not take the following courses:

- **27002** Life Science 5 point Autumn E1B (Thurs 13-17)
- **42610** Philosophy of science in engineering 5 point Autumn E3B (Fri 13-17), Spring F3A (Tues 8-12)
- **27231** Molecular Cell Biology 10 point
- **27311** Human Physiology 5 point
- **42621** Engineering and Physiology 5 point

**Please note**, that KU deadlines for registering for a course are not the same as DTU's. If you need to register for a KU course after deadline, contact the study administration at DTU.

**Registering for exams at KU**

If you are registered in a KU course, you are automatically registered for the next exam. Students who are not registered in a course and wish to register for an exam should do this through DTU. Students who wish to register for re-exams should do this through KUnet applying KU SUND's deadlines.

**Curriculum, previous admission years**

The courses listed below also counts as General Competence courses for students accepted at DTU prior to September 2019:

- **31590** Biomedical product development 10 point Autumn E4 (Tues 13-17, Fri 8-12)

The courses listed below also count as Technological Specialization Courses for students accepted at DTU prior to September 2019:

- **0250** Medical Image Analysis 5 point Autumn E1B (Thurs 13-17)
- **3123** Auditory signal processing and perception 10 point Spring F1 (Mon 8-12, Thurs 13-17)
- **3152** Intermediate topics in physiological and pharmacological mass transport 10 point Autumn E3 (Tues 8-12, Fri 13-17)
- **3152** Cellular signalling 5 point June
- **3152** Tissue and movement biomechanics DTU 10 point Autumn E2 (Mon 13-17, Thurs 8-12)
- **3154** Medical imaging systems 10 point Autumn E2 (Mon 13-17, Thurs 8-12)
- **3154** Medical magnetic resonance imaging 5 point Spring F1B (Thurs 13-17)
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<th>Credits</th>
<th>Semester</th>
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<td>3156</td>
<td>Personal portable health technologies</td>
<td>10</td>
<td>Spring F2A (Mon 13-17) and</td>
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<tr>
<td>3156</td>
<td>Principles of brain computer interface</td>
<td>5</td>
<td>Spring F2B (Thurs 8-12)</td>
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<td>3159</td>
<td>Engineering World Health Summer School in biomedical instrumentation</td>
<td>5</td>
<td>Outside schedule structure</td>
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<td>3328</td>
<td>Biomaterials</td>
<td>5</td>
<td>Spring F4B (Fri 8-12)</td>
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<td>3455</td>
<td>Biomedical optics</td>
<td>5</td>
<td>Autumn E4A (Tues 13-17)</td>
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The following courses also count as Technological Specialization Courses for students accepted prior to September 2018:

<table>
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<th>Semester</th>
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<tr>
<td>31523</td>
<td>Intermediate topics in physiological and pharmacological fluid mechanics</td>
<td>10</td>
<td>E3 (Tues 8-12, Fri 13-17)</td>
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</tbody>
</table>

In addition to the courses listed above the courses below also count as Technological Specialization courses for students accepted at DTU prior to 1 September 2017:

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>31532</td>
<td>Signalling in eukaryote cells</td>
<td>5</td>
<td>June</td>
</tr>
</tbody>
</table>

**Master's thesis**

The master's thesis is the final assignment of the programme. The objective of the master's thesis is to give students the opportunity to independently apply the knowledge they have acquired on a larger project that concludes with a written report. The thesis must document skills in applying scientific theories and methodologies to a clearly defined academic topic.

It is also possible to do an entrepreneurial thesis with a supervisor or co-supervisor from the Centre for Technology Entrepreneurship. Read more about the content and how to apply on their website: [https://www.entrepreneurship.dtu.dk/education/entrepreneurial-thesis](https://www.entrepreneurship.dtu.dk/education/entrepreneurial-thesis)

The master's thesis may be prepared either individually or as a group project with a maximum of four students.

The master's thesis must be written in English and it must include an abstract. As an exemption the supervisor of the master's thesis can decide that the thesis may be written in Danish. This decision can only be made due to professional, academic reasons. The Head of studies for the study programme must accept this exemption.

The Head of Studies of the study programme must approve that the master's thesis falls within the programme's technical and scientific field. The Head of Studies automatically receives this information once the thesis is reported and the student will be directly notified if the topic cannot be approved. The master's thesis may be undertaken in collaboration with a company.

**Project agreement, volume, and project period**
The thesis can only be commenced when the student lacks no more than 15 ECTS credits besides the thesis.

The start time of the thesis is the first working day after the last study activity.

Students and thesis supervisors may always agree on earlier start dates.

Alternate start dates may apply for academic reasons and if approved by the supervisor. For delayed start, the project registration must always contain a justification for delayed start relative to rules and dates stated above.

If the last study activity finishes on a day within the semester (e.g. project course), the start time of the thesis must be the first working day after the last study activity.

For students with last study activities in connection with semester endings the following start dates apply:

<table>
<thead>
<tr>
<th>Last study activity is a</th>
<th>Thesis start date is first following working date in …</th>
<th>Dates in 2019/2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>… winter exam in December</td>
<td>January</td>
<td>January 2</td>
</tr>
<tr>
<td>… three week course in January</td>
<td>January</td>
<td>January 27</td>
</tr>
<tr>
<td>… summer exam in May-June</td>
<td>August</td>
<td>August 3</td>
</tr>
<tr>
<td>… three week course in June or July</td>
<td>August</td>
<td>August 3</td>
</tr>
<tr>
<td>… three week course in August</td>
<td>August</td>
<td>August 26, 2019</td>
</tr>
<tr>
<td>… reexam in August</td>
<td>August</td>
<td>August 26, 2019</td>
</tr>
</tbody>
</table>

The master's thesis must have a scope equivalent to 30, 32½ or 35 ECTS credits. In connection with the formulation of a project agreement, the project period should be specified. A master's thesis must be undertaken as a full-time course of study and the stipulated time is:

- 30 ECTS credits = 5 months
- 32½ ECTS credits = 5½ months
- 35 ECTS credits = 6 months

As a general rule no parallel activities are conducted in this period. Nevertheless in order not to prolong the total time of the study programme the period may be extended with 3 weeks study for every 5 additional ECTS credits from course activity.

Prior to the project start the project period may also be extended with up to 3 weeks due to documented impairment. The Office for Study Programmes and Student Affairs, the SPS
unit, makes this decision. The extension must be reported to the project registration system prior to the start date of the master's thesis. Application is submitted by the student before project start via specialexamconditions@adm.dtu.dk. If the student has previously applied for and been granted extra time for exams for the entire programme, it is also stated in the grant that extra time has been allocated for the final project. The student must be able to present the grant to the supervisor on the master's thesis before the supervisor reports the thesis. The SPS unit can be contacted in case of questions. Read more on DTU Inside 'Exam/Special exam arrangements'.

A master's thesis agreement is to be concluded between the student and a supervisor and it must be done well in advance of the starting day of the thesis. The supervisor is responsible for reporting the thesis to the project registration system.

The supervisor for a master's thesis must be a member of the scientific staff with research obligations holding a permanent position at DTU (not a PhD student) and must be approved by the Head of Department. The supervisor is required to confirm that the student has the requisite academic qualifications for undertaking the master's thesis. The student is required to document his/her qualifications and level in the form of a list of courses he/she has completed. The supervisor must regularly follow the progress of the thesis and ensure that the master's thesis falls within the academic focus area of the MSc Eng programme.

The work must not begin until the final approval of the agreement has been given by the Office for Study Programmes and Student Affairs. The master's thesis agreement is binding and counts as an examination attempt from the time work on the master's thesis has begun. The master's thesis agreement may be cancelled up to the start date of the master's thesis, in which case it will not count as an examination attempt.

The master's thesis may be prepared abroad if the general requirements are met. The supervisor, also being the examiner of the project, still has to be an employee at DTU, and the external examiner has to be appointed by the Danish ‘Ingeniøruddannelsernes censorkorps’

Specific rules apply for the Corporate MSc Eng Programmes in Civil Engineering plus Computer Science and Engineering. These programmes combine work with studies and are part-time studies. Therefore their master thesis may be undertaken as a part-time course of study and the stipulated time is

- 30 ECTS credits = 10 months
- 32½ ECTS credits =11 months
- 35 ECTS credits =12 months

The content and learning objectives of the thesis
The content of the thesis is to be agreed with the supervisor. The thesis may contain a combination of experimental work, fieldwork, theoretical studies, synthesis, modelling and analysis. All theses must include elements of literature studies and criticism. In addition, the thesis contains the following overarching learning objectives:

A graduate of the MSc Eng programme from DTU:
can identify and reflect on technical scientific issues and understand the interaction between the various components that make up an issue
• can, on the basis of a clear academic profile, apply elements of current research at international level to develop ideas and solve problems
• masters technical scientific methodologies, theories and tools, and has the capacity to take a holistic view of and delimit a complex, open issue, see it in a broader academic and societal perspective and, on this basis, propose a variety of possible actions
• can, via analysis and modelling, develop relevant models, systems and processes for solving technological problems
• can communicate and mediate research-based knowledge both orally and in writing
• is familiar with and can seek out leading international research within his/her specialist area.
• can work independently and reflect on own learning, academic development and specialization
• masters technical problem-solving at a high level through project work, and has the capacity to work with and manage all phases of a project – including preparation of timetables, design, solution and documentation

Further learning objectives exist for the entrepreneurial thesis:
https://www.entrepreneurship.dtu.dk/education/entrepreneurial-thesis

During the first month, the student is to submit/upload a project plan to the thesis group at DTU Inside, outlining the objective of the thesis. In the project plan, the student is also to take into account the overarching learning objectives listed above. When submitting the thesis, the student is to enclose a separate document presenting the original project plan and a revision of same, where appropriate. In addition, the document is to include a brief auto-evaluation of the project process.

**Deadline**
The agreed project period must be observed.

Under special circumstances the Board of Studies may grant extensions of the project period for up to three weeks. The student must submit the application to the relevant Board of Studies. An overview of the study board chairmen can be found at DTU Inside under 'Academic offers and guidance'/'Study board chairmen'.

Applications for extensions beyond three weeks should be addressed to the Exemption Committee for the MSc Programmes in Engineering (CMDU). Application is submitted through www.dispensation.dtu.dk. The application should be submitted well in advance of the deadline for the thesis in order for the Exemption Committee to be able to handle the application in time. Information regarding exemptions can be found at DTU Inside under "Exemption".

The Board of Studies/the Exemption Committee will in its decision place emphasis on whether the application for extension is based on unforeseen delays.

If the student wish to abandon his/her thesis and start over within a different field of study with a new deadline, this must be approved by (the new) supervisor as well as the relevant Board of Studies. However, if the student wish to abandon his/her thesis within a month after the start of the thesis, approval from the Board of Studies is not necessary. The supervisor must inform the Office for Study Programmes and Student Affairs and the head of studies, including the approval from the Board of Studies, whereafter a new project agreement must be made within the new field of study.
and with a new ordinary deadline (5, 5½ or 6 months). However, the student will have used one examination attempt on the abandoned project.

Failure to observe the deadline means that the student will have used one examination attempt. The student and the supervisor must then make a new project agreement for the thesis but with a modified problem formulation within the same field. The new thesis must be submitted within 3 months of approval of the project. This procedure also applies if the student fail his/her exam.

Assessment
Learning objectives are an integrated part of the supervision.

In assessment of a master's thesis, the quality of the academic contents will carry the most weight. The student’s writing abilities will also count, though this will be weighted slightly less, while spelling will carry little weight.

The master's thesis is evaluated according to the Danish 7-point grading scale on the basis of a report and an oral defense. The report and the oral defense will be evaluated as a whole. The master's thesis will be evaluated in conjunction with one or more external examiners. The department, supervisor and examiner will, in consultation with the student, set a date for the oral presentation and defense.

The oral defense must be held no later than 10 work days after submission of the written report. In exceptional circumstances, the head of department can approve a later exam date. Find more information on DTU Inside under 'Structure and rules/Exam/Dealines for grading'. In case of documented illness of the student during the period between submission of the project and the oral defense, the rules at DTU Inside/Exam/Illness in connection with exams will apply.

If the thesis is written by more than one student, each student is to be examined individually. However, the assessment of group projects may also include a group exam with the participation of the entire group. In this case, the individual oral exams are carried out after completion of the group exam. Beside the examinee, only group members who have already been examined are allowed to attend this part of the examination. A group member always has the right to deselect a group exam. If this is the case the duration of the individual exam must be adjusted.

The oral defense of a project undertaken entirely or in part at a private company may, due to company secrets referred to in the project, be held behind closed doors subject to agreement with the supervisor.

Master thesis, specific rules

The supervisor of the Master thesis may also be a member of the scientific staff with research obligations, holding a permanent position at University of Copenhagen. The supervisor must be approved by the Vice Head of Studies at University of Copenhagen.

Study Activity Requirements and Deadlines

Programme Deadlines
Students must meet the study activity requirements and deadlines set out below. If students do not meet the requirements, they can only continue on the study programme if granted an exemption.
Commencement of Studies Exam
In the beginning of the study programme, MSc Eng students must pass a Commencement of Studies Exam in order to continue on the programme. The purpose of the Commencement of Studies Exam is to ascertain whether students have actually commenced their studies. The exam is assessed by internal examiners and is assessed as ‘Approved’ or ‘Not approved’. Students have two attempts to pass the commencement of studies exam.

The commencement of studies exam consists of the following:

- The student must have registered for courses or/and have completed an individual study plan which meets the criteria in the curriculum

The Commencement of Studies Exam must be passed no later than 5 September 2019 for students enrolled in September 2019 and 6 February for students enrolled in February 2020. The second exam attempt takes place immediately thereafter.

Study Activity Requirement
The study activity requirements mentioned below are applicable from 1 September 2016. Courses passed before this date does not count in the statement of the study activity requirement.

Students must pass at least 30 ECTS credits in the first year of study on their programme and 45 ECTS credits in each of the following years of study. The study activity requirement will be checked regularly.

Specific rules apply for students enrolled at the Corporate MSc Eng Programmes in Civil Engineering plus Computer Science and Engineering. They must pass at least 20 ECTS credits on the first year of study on their programme and 25 ECTS points the following years of study. The study activity requirement will be checked regularly.

The study activity requirement is accumulated, so the students must fulfill the study activity requirements below:

<table>
<thead>
<tr>
<th>Period</th>
<th>Accumulated study activity requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. year of study</td>
<td>30 ECTS credits</td>
</tr>
<tr>
<td>2. year of study</td>
<td>75 ECTS credits</td>
</tr>
<tr>
<td>3. year of study</td>
<td>120 ECTS credits</td>
</tr>
</tbody>
</table>

Students must have the option of three exam attempts on courses included in the requirement. This means that the check of the 30 ECTS credit and 75 ECTS credit requirement are not made until the end of 3rd and 5th semester after study start, respectively, provided that the student by this time has still not passed 30/75 ECTS credits. As to the subsequent study activity requirement of 120 ECTS credit the check is made by the end of the third year of study after study start.

The study activity requirements for students enrolled at the Corporate MSc Eng Programmes in Civil Engineering and Computer Science and Engineering is accumulated as illustrated below:

<table>
<thead>
<tr>
<th>Period</th>
<th>Accumulated study activity requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year of Study</td>
<td>ECTS Credits</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------</td>
</tr>
<tr>
<td>1.</td>
<td>20</td>
</tr>
<tr>
<td>2.</td>
<td>45</td>
</tr>
<tr>
<td>3.</td>
<td>70</td>
</tr>
<tr>
<td>4.</td>
<td>95</td>
</tr>
<tr>
<td>5.</td>
<td>120</td>
</tr>
</tbody>
</table>

**Study Activity Requirement of 5 ECTS Credit Points**

In order to comply with DTU's study activity requirement students must pass a minimum of 5 ECTS credits each academic year. Regardless of how many examination attempts the student has made, this requirement still applies.

**Maximum Duration of Study**

The MSc Eng programme is a two-year programme. The entire MSc Eng course of study must be completed no later than 3 years after admission.

**The Corporate MSc Eng Programmes in Civil Engineering plus Computer Science and Engineering are four-year programmes. The entire Corporate MSc Eng course of study must be completed within five years.**

**Completion Requirements**

To earn a MSc degree, the student must earn 120 credit points under one of DTU’s MSc Eng programmes. The courses and the thesis must be passed.

**Study Programme Rules**

The study programmes at DTU consist of courses which include lectures, seminars, classes, practical exercises, projects, etc. A course can have a duration of more than one teaching period.

**Language of teaching**

BEng and BSc courses are usually taught in Danish. A limited number of courses can be offered in English on other BSc and BEng programmes. Courses on the English-language BSc programme in General Engineering is only offered in English.

All MSc courses are taught in English.

**The academic year**

The academic year is divided into six teaching periods:

- Two 13-week periods in the autumn and spring semesters.
- Two exam period of about two weeks (May and December).
- Four 3-week periods followed by exams in January, June, July, and August.

The order and scheduling of mandatory courses, academic content, teaching and working methods, as well as any prerequisites are specified in the programme specifications for each study programme.
and the individual course descriptions. Mandatory study elements can generally not be taught in July/August exclusively.

Lectures at DTU are generally open to the public. A teacher can, however, deny access to the public due to considerations of space or order and can hence reject listeners who are not registered for the course. Only students registered for the course may participate actively in the class.

If a student wish to do sound- or video recording of teaching sessions at DTU, the teacher must approve this in writing prior to the recording. Recordings are only for personal use unless the teacher has allowed publication of the recording, including what kind of publication.

## Regarding course descriptions

Course descriptions contain the following information:

- Language
- ECTS credits (work load)
- Course type (BEng, BSc, MSc, PhD, part-time diploma, or part-time MSc)
- Scheduling, location, and duration of the course
- General course and learning objectives
- Teaching and learning methods
- Attendance requirements, if any, e.g. laboratory exercises
- Mandatory or recommended academic prerequisites for attendance, if any
- Evaluation (the use of internal or external examiner and the use of 7-point grading scale or pass/fail)
- Type of assessment
- Requirements, if any, for submission of mandatory written assignments as a prerequisite for exam participation
- Weighting of part-exams assessed by using part grades
- Courses with which the course is not applicable with, if any
- Scheduling of exam
- If the course is not suitable to be offered for re-exam (see DTU Inside under ‘Structure and rules’ / ‘Exam’ / 'Re-exams'.)
- Limits to admission, if any

## Changes to course descriptions

Significant changes to the course descriptions must be available no later than:

- 25 June for the 13-week period in autumn
15 November for the 3-week period in January
25 November for the 13-week period in spring
15 April for the 3-week periods in June, July, and August.

In exceptional cases, significant changes can be made during the teaching period. This has to be approved by the lecturer, the department board of studies and the students.

The procedure in the event of significant changes are as follows:

1. Proposed changes must be formulated in writing and sent to the department board of studies for approval.
2. If the proposal is approved, the proposal is sent as a bulletin via DTU Inside to all registered students. The bulletin must clearly state that the change is a proposal which will be implemented unless objections are raised by one or more students. Students are given at least 14 days to object against the change.
3. If no objections are received, the lecturer posts a new bulletin announcing that no objections have been raised against the change. The change will hereby be adopted.

Approved changes are updated in the course descriptions on DTU’s website: www.kurser.dtu.dk.

Course registration

Registration for and withdrawal from courses are made via the Study Planner. No teacher or professor can register/enroll a student for a course.

Students must be registered for a course to attend classes - including laboratory exercises - to participate in group work, and to obtain course information via DTU Inside as well as teaching material (notes, etc.).

Course registration in the first semester
BEng and BSc students are automatically registered for courses in the first teaching period (13-week period) in the first semester of their study programme. Students must themselves register for all other courses through the Study Planner.

MSc students and visiting students must themselves register for courses through the Study planner. MSc students and visiting students must confirm that they accept DTU’s code of honour to be able to register for courses via the Study Planner. See also at DTU Inside under ‘Structure and rules’ /’DTU’s code of honour’.

Course registration in other semesters
Students are responsible for ensuring that their course registrations have been registered correctly in their study plan, and that registration for the courses has been made within the applicable registration and withdrawal deadlines.

Students can see the registration and withdrawal deadlines for courses at DTU Inside under Structure and rules’ /’Registration deadlines for courses and examinations’.

In the supplementary course registration period a decision on limited admission to a course can be made on the grounds of the capacity of facilities or academic reasons. See DTU Inside under
‘Participation in limited admission courses’ under ‘Teaching’. Students therefore have to be aware that participation in a course may not be possible if the student register for the course in the supplementary course registration period.

**Rules for choice of courses**

Students cannot register for a course they have already passed. A course has been passed if the grade 02 or the assessment ‘Pass’ has been awarded. Reregistrations for passed courses will be rejected.

Students can register for courses which form part of their curriculum. All other courses have to be pre-approved by the Head of Study prior to registration, and the Head of Study shall send this approval to the Office for Study Programmes and Student Affairs via email: studadm@adm.dtu.dk. BSc Eng and MSc students may not register for BEng courses.

Some courses are only provided for students on selected study programmes. This will be stated in the course description. Students who do not attend these study programmes, will not be granted access to the course.

Students must not register for courses in excess of the prescribed total ECTS credits for the study programme. In the event of odd ECTS credits, a student may register for a final course of up to 5 ECTS credits, even if this means that the student will exceed the prescribed total ECTS credits for the study programme (see DTU Inside under ‘Structure and rules’ / ‘Credit transfer’ / ‘Credit transfer during the study programme’)

**Cancellation of courses**

A non-mandatory course may be cancelled if less than ten students have registered for it. Other rules for minimum participation must be specified in the course description. Mandatory courses and courses from the mandatory groups cannot be cancelled.

**Binding courses**

If the student does not withdraw from his/her first exam attempt in a course before the deadline, the course registration is binding, an exam attempt has been used and the course becomes part of the student’s programme specification, cf. the rules for registration and withdrawal from exams on DTU Inside/Exam/Registration and withdrawal. The student must pass the course for the student to complete the programme.

The rules regarding when an exam attempt has been used can be found on DTU Inside/Exam/Assessmentform and Gradings.

Students can find the deadlines on DTU Inside under ‘Structure and rules’ / ‘Exam’ / ‘Registration deadlines for courses and examinations’.

**Academic prerequisites for course participation**

Prerequisites and rules for course participation are specified in the course description.

Lecturers are responsible for ensuring that exercises and other laboratory and workshop activities take place under safe conditions. They must therefore provide thorough instructions. Students who fail to understand or respect the lecturer’s safety instructions may be expelled by the lecturer from
the activity. Find more information on DTU Inside under ‘Structure and rules’ / 'Disciplinary measures towards students'.

Mandatory prerequisites
Mandatory prerequisite courses are only used if an introductory course must have been passed - for security reasons or similar weighty reasons - before participation in a subsequent course. Students may only register for the course and, if relevant, take part in a drawing of lots if they have passed or are registered for the exam in the mandatory course.

Recommended academic prerequisites
Recommended academic prerequisite courses form the basis for the teaching, and students are expected to have knowledge of the topics covered by the courses. Students who do not have the necessary prerequisites are not entitled to extra academic counselling and may, if necessary, be expelled from the class, if the students presence is of inconvenience to the general teaching.

Participation in limited admission courses

If a course is overbooked, the department for Student affairs will draw lots among the students registered for the course in order to determine, who gets to participate in the course. No later than one month before the start of the teaching period, a study announcement will be sent out with information about the procedure for the drawing of lots in the event of overbooked courses.

All students who have registered for a course for which participation will be determined by drawing lots will receive an email after the draw with status information. There are three status types:

- Place on the course guaranteed
- On the waiting list
- Lost draw

Students, who have been granted a place in the course, but who do not attend classes when the course starts and fail to notify and get approval from the lecturer of subsequent attendance will not be permitted to keep their place in an overbooked course after the dates stated below:

13-week period: after the end of class on the first day of teaching in the course
3-week period: four hours after course commencement

The place will be given to the next student present with the lowest number on the waiting list.

Priority in case of drawing of lots
It may be stated in the course description that students enrolled on certain study programmes have priority in a drawing of lots. Students who have registered for a course within the deadline will be assigned a place or participate in the drawing of lots according to this priority. If nothing is stated in the course description, all full-time students who have registered within the deadline will participate in the draw equally.

- Full-time students who have registered within the deadline and students on the flexible master’s programme (part-time programme) have priority over guest students and students on the other part-time programmes in any drawing of lots.
- Students for whom the course is mandatory or forms part of one of the mandatory groups have priority over students for whom the course is not mandatory. If a student for whom a course
forms a mandatory part of the programme loses a draw, the student in question will be guaranteed a place next time the course is offered.

- Guest students studying at DTU under an exchange agreement between DTU and an international partner university, and for whom the course constitutes a mandatory programme element or part of the mandatory group, take precedence over full-time students for whom the course is not mandatory as well as over other guest students and part-time students.
- Students enrolled on part-time programmes for whom a course constitutes a mandatory programme element take precedence over students on part-time programmes for whom the course is not mandatory.
- Guest students and students on part-time programmes who have registered within the registration deadline will be assigned a place in overbooked courses and have priority over full-time students who register after the deadline.

Mandatory participation in class and mandatory assignments

Mandatory participation in class
Attending classes is generally not mandatory. However, many courses (practical courses, laboratory courses, etc.) require active participation to pass the course. In connection with projects, giving presentations and acting as a critic in relation to presentations given by other students may be mandatory. If participation in class is mandatory, this must be specified in the course description.

Mandatory assignments etc.
A course coordinator may decide that the submission and approval of written assignments, oral presentations, etc. during the course are a prerequisite for the students being allowed to take the course exam. In such case, this must be stated in the course description.

Assignments must meet the learning objectives for the course in terms of form and content, and it is expected that the course coordinator provides the students with feedback on the assignments.

The individual course coordinators decide on the criteria for approval of mandatory assignments and inform the students.

Mandatory assignments are not included in the assessment, but are to be regarded as a course element.

Mandatory assignments in relation to re-exams are described in further detail at DTU Inside under ‘Courses with mandatory assignments as a prerequisite for exam participation’ under ‘Re-exams’.

Illness or other legitimate reasons for absence from mandatory activities
Students who are prevented from participating in mandatory teaching modules or completing laboratory or workshop activities, due to illness or for other legitimate reasons, are obligated to notify the lecturer responsible as soon as possible. The student must be able to document the reason for being absent if requested from the lecturer.

The student can agree with the lecturer to retake the mandatory activity or have it replaced by a similar activity. If this is not possible, the student is entitled to take the activity again the next time the course is offered.

If the student is unable to participate in the exam in the course due to legitimate absence, the student must submit documentation for the reason for the absence. If the students does not submit
documentation, the exam will count as an exam attempt (see more on ‘Structure and rules’ / ‘Exam ’ / ‘Illness in connection with exams’).

**Deadlines for publication of teaching material and syllabus**

Information about material forming part of the exam syllabus must be available on DTU Inside no later than three weeks before the end of the teaching period together with a description of the syllabus or other reading guidelines.

**Project courses**

The content of a project course is agreed between the student(s) and a DTU supervisor. The project course is registered by the DTU supervisor in the project registration system (Projektindberetningssystemet).

As for BSc and MSc students, supervisor on a project course must be a member of the scientific staff with research obligations and holding a permanent position at DTU. An exemption from this rule may be granted by the relevant BSc or MSc Head of Studies.

Registration for project courses takes place at the relevant department via the project reporting system before the project course starts.

The ECTS credit for a project course ranges from 5 to 30 ECTS credits with intervals of 2.5 credits. 5 ECTS credits correspond to around three weeks of full-time study. In exceptional cases, it is possible to take a project course corresponding to 2.5 ECTS credits, for example if the course constitutes the final element of the programme. In such case, the lecturer must contact the Office for Study Programmes and Student Affairs with a view to registering the course.

The project period for a project course cannot extend six months. The agreement made regarding a project course is binding on both parties, but can be changed according to agreement between the parties. The project course must be documented in a report or similar.

If a student fails a project course a re-exam is possible. The supervisor makes this decision based on academic reasons. The department board of studies make a decision in the event of a disagreement between the student and the supervisor. The student can always plead for the right of three examination attempts in the course.

**Projects in cooperation with a company (project-based exams)**

A project course can be carried out entirely or partially with a company in Denmark or abroad (a project-based exam). The academic content, learning objectives as well as form of assessment and grading must be agreed with a DTU supervisor. The supervisor is responsible for ensuring that the project has a sufficient academic/theoretical level. The ECTS credit total is based only on the expected project workload, which means that the duration of the internship with the company is not credit awarding.

The students are responsible for finding a company, but many departments have contact with a number of companies. It is recommended that students carry out projects in cooperation with companies in the final part of the study programme.
Students can also search the DTU Internship and Project Bank where company projects are posted, among other things. DTU’s Internship and Project Bank can be found at Projektbank.dtu.dk.

It is recommended that students carry out projects in cooperation with companies in the final part of the study programme.

When completing an unpaid project-based exam students may under certain conditions receive a token of appreciation from the company. The token of appreciation may have a worth of up to DKK 3,000 per month and may not be given as a pre-agreed upon income, like a salary.

Project proposals
Students are recommended to draw up a project proposal to be signed jointly by the student, the supervisor, and the company, since all three parties must agree on the project.

The project proposal should contain the most important details related to the project: project title, specific tasks, expected working hours/time of arrival, duration of the internship with the company, etc. If the company makes requirements in relation to confidentiality and rights to use the project, two separate agreements can be made with the student and DTU, respectively.

The project supervisor can refer the student to the person responsible for contracts at the relevant department. The project supervisor can find an overview of persons responsible for contracts on DTU Inside under ‘Forskningsamarbejde, jura og kontraktforhold’ (in Danish only).

Insurance
During an internship with a company in connection with a project, the insurance taken out by Polyteknisk Forening (PF student association) does not provide cover (see ‘Insurance for students’).

Portfolio credit courses
(The rules pertaining to Portfolio credit courses are repealed with effect from 1 February 2020 and hereafter it is no longer possible to register for Portfolio credit courses.)
By registering for a portfolio credit course, BSc and MSc students have the opportunity to obtain up to 10 ECTS credits in the elective courses group for competences acquired through work experience, starting their own business, online courses, etc. after admission to their current study programme at DTU. Students generally register for the portfolio credit course after acquiring the relevant competences.

In the portfolio credit course, the students account for the academic/professional competences acquired in a report. The competences must be at the same or at a higher level than the level the students would otherwise achieve on the study programme. A portfolio credit course can be equivalent to 5, 7.5, or 10 ECTS credits. Students must register for a portfolio credit course at a department, and each student must be assigned a DTU supervisor, who determines the evaluation and assessment form.

Evaluation of teaching
At the end of the semester, the teaching in all courses are evaluated via DTU Inside. The students complete the evaluation forms anonymously. Evaluations are processed by the board of studies at the department.

The evaluation of a course comprises three forms:
Form A: Evaluation of the course in general
Form B: Evaluation of the course coordinator/lecturers
Form C: Free-text proposals (text fields where students can give feedback in their own words)
Form A is available to everyone. A summary of the course evaluations is published on DTU's homepage.
Forms B and C are confidential as they may contain sensitive personal information. The evaluations may, however, be accessed by the following persons:

- The relevant head of department and managers with direct HR responsibility
- All members of the relevant board of studies
- The course coordinator
- When the course comprises a mandatory element of the programme, the relevant head of studies.

Complaints regarding teaching and supervision

Students who are dissatisfied with the teaching in a given course or with the supervision received in connection with a project must contact the lecturer/supervisor concerned immediately to find a solution to the problem. If this does not solve the problem, the following rules for complaints regarding teaching/supervision have been established:

- Complaints must be justified in writing and submitted to the board of studies at the department offering the course within two weeks of the announcement of the student’s grade. For oral exams no later than two weeks after the oral exam. A list of study board chairmen at the individual departments can be found on DTU Inside under ‘Study board chairmen’.
- The department board of studies informs the head of department about the complaint if the complaint concerns issues relating to personnel, and makes sure that the lecturer/supervisor gets the opportunity to comment on the complaint.
- As soon as possible after the consultation of the lecturer/supervisor, the department board of studies forwards the decision to the student, and a copy is provided for the head of department.
- If the student’s complaint is upheld, the head of department, based on the decision of the department board of studies, will decide on any measures that need to be taken with regard to the lecturer/supervisor.
- The decision must contain the grounds for rejection and a procedure for complaints, in case the student’s complaint is not upheld, see below.
- If the student does not accept the decision of the department board of studies, the student can file a complaint to the dean of the programme in question no later than two weeks after the student has received the decision. The complaint must be justified in writing and submitted via student email to the Office for Study Programmes and Student Affairs to studenterklager@dtu.dk. The complaint must be accompanied by the documents included in the original complaint to the department board of studies.
- The decision of the dean is final unless any procedural errors have been made. If the student believes that there are procedural errors in the dean’s decision, the student in question can appeal to the Danish Agency for Science and Higher Education. The appeal must be filed
within two weeks of announcement of the dean’s decision. It must be justified in writing and submitted to the Office for Study Programmes and Student Affairs (studenterklager@dtu.dk) who forwards the appeal to the Agency.

Exam rules

Each course and project concludes with an exam. The objective of the exam is to assess the extent to which the student meets the learning objectives defined for the course or project. The exam must reflect the overall course objectives, learning objectives, and content.

Type of assessment form, date of examination etc. can be found in the course descriptions at DTU Course Base.

Registration and withdrawal from exam

All course registrations are automatically transferred to exam registrations. The transfer takes place right after the deadline for the exam registration. Students are responsible for all other exam registration.

It is the student’s responsibility to check, that the exam registrations are correct.

Students can find the deadlines for exam registrations etc. on DTU Inside under ‘Registration deadlines for courses and examinations’ under ‘Exam’. Find more information at DTU Inside ‘Structure and Rules’/’Teaching’/’Binding Courses’.

Students’ exam registrations can be found at DTU Inside in the tab ‘Toolbox’/’Exam registration’. Here students can also withdraw from exam registrations and register for other exams if he/she wish to participate in the exam in other/more courses than those transferred from the course registrations, for example re-exams.

Registration is binding after the deadline for exam withdrawal, and an exam attempt has been used even if the student does not participate in the exam. If the student does not withdraw from his/her first exam attempt in a course before the deadline, the course registration is binding and the course becomes part of the student’s programme specification. The student must pass the course for the student to complete the programme. Find more information on DTU Inside under ‘Structure and Rules’/’Teaching’/’Binding Courses’.

Even if a student has passed one or more part-exams in a course, this does not count as an exam attempt if the student withdraw from the exam within the current deadlines. The student must pay attention to the rules for approved and passed mandatory assignments and part-exams in connection with re-exams. These rules can be found at DTU Inside under ‘Re-exams’.

Students must register for and withdraw from any subsequent second or third exam attempt within the current deadlines. Similarly, students who have withdrawn from their first exam attempt in a course, must register for a new exam in the course unless they register for the course once more.

Students cannot register for exams in courses which have already been passed (grade 02 or higher or ‘Pass’).
If, after the publication of the dates for written exams, it transpires that a student has registered for two exams which overlap, the student is entitled to withdraw from one of the written exams and instead take the exam in question in the next (re-)exam period. The same applies to oral exams if the student is unable to arrange a different time of examination for the oral exam with the examiner. The student must contact the Study administration at studadm@adm.dtu.dk before the exam is held.

All activities that form part of the programme must be assessed. To obtain an assessment, students must be registered for the exam in the activity. Students may not participate in an exam or have, for example, a substitution paper assessed if they are not registered for the exam in the course.

For guest students and students in part-time programmes, special rules apply for exam registration. These rules are accessible at DTU's webpage.

BEng projects, BSc projects, and MSc theses also conclude with an exam, but registration is made via the project reporting system by the department with which the student is affiliated.

**Exam attempts**
Students are entitled to three exam attempts in each course or project.

Even though several versions of the same course with different course numbers may be available, students only have three exam attempts. This also include one or more exam attempts used under vacant place scheme (vacant place on DTU’s courses offered to students as a part-time programme). Several versions of the same course both cover courses with different course number and/or title and courses that are not applicable with other courses.

Students who do not pass a third exam attempt are obliged to apply for an exemption to be granted an additional exam attempt immediately after the announcement of the grade for the third exam attempt. If they fail to do so, they will no longer be entitled to be enrolled in the study programme. A fourth exam attempt or additional exam attempts must take place at the next (re-)exam of the course. Rules on exemption can be found on DTU Inside/Exemtion.

If a student does not show up for an exam, this will be registered as an attempt, unless the student can provide documentation for illness. The student must provide documentation by email to the Study administration (studadm@adm.dtu.dk) no later than 14 days after the exam date. Rules can be found on DTU Inside/Exam/Illness in connection with exams. The same rules apply, if the student does not observe the conditions for mandatory assignments as a requirement to be approved for the exam.

**Assessment forms**

Students must be assessed individually. In connection with both individual exams, group exams and group assignments, an assessment must be made of the performance of each individual student, and individual grades must be awarded. For group projects, each individual student must be given his or her own grade or assessment; it is thus not possible to give a grade for the group as a whole.

In connection with their assessment, the external examiner and the primary examiner must take notes about the candidate’s performance and the grading for use in the event of a future appeal. The notes must be kept for at least a year and until the conclusion of any subsequent appeal.
The assessment consists of a grade based on the 7-point grading scale or the assessment ‘Pass’ or ‘Fail’. The assessment ‘Pass’ or ‘Fail’ can only be used for tests/exams accounting for up to one third of the study programme’s ECTS credits.

At least 1/3 of the total ECTS credits on the study programme must have been completed with external co-examination. This does not apply to exams for which credits have been transferred from other universities.

This does not apply to exams for which credits have been transferred from other universities.

In cases where an assessment cannot be made in accordance with the Danish 7-point grading scale or ‘Pass’ or ‘Fail’, the following registration may occur:

- The registration ‘Ill’ (SYG) is used if the student has been registered for the exam without participating - or have had to leave the exam due to illness - and the student can present documentation for this (see ‘Illness in connection with exams’.) The exam attempt will get the registration 'Ill' (SYG), and the student will automatically receive a new exam attempt. The course is still binding.
- The assessment ‘Did not take exam’ (‘Ej mødt’ (EM)) is used if the student has been registered for the exam without taking the exam. It is registered that the student has used an exam attempt.
- The registration ‘Not approved’ (‘Ikke godkendt’ (IG)) is used when the student fails to meet requirements for submission of mandatory assignments as a prerequisite for taking the exam (see ‘Mandatory participation in class and mandatory assignments’ under ‘Teaching’). It is registered that the student has used an exam attempt, unless the student withdraws from the course exam himself/herself.
- The registration ‘Cheating’ (SNYD) is used if the student has had an exam performance/result for a full course cancelled because of violation of the exam rules (exam cheating). It is registered that the student has used an exam attempt.

**Requirements for passing exams and part-exams**

A course has been passed if the student has been awarded the grade 02 or higher or the assessment ‘Pass’.

All mandatory activities (except e.g. laboratory exercises which are not to be assessed and mandatory assignments which are a prerequisite for participation in an exam) must be included in the assessment.

All part exams on a course must be offered in the same course module, unless otherwise stated in the course description. Find more information on part exams in connection with re-exams at DTU Inside under 'Structure and rules/Exam/Re-exams/Courses with part exams'.

Part exams cannot be retaken if the course has been passed.

In a course with part exams, any re-exam is only a repetition of the final part exam on the course. Part exams scheduled in the teaching period will thus not be offered as a re-exam or be assessed in the period between the ordinary exam and re-exam on the course. For more information visit DTU Inside under ‘Holding of re-exams’ under ‘Exams’.

A course with several part exams can be assessed
either by using part grades in the assessment of the part exams

or based on an overall assessment of the different part exams (overall assessment)

It must be stated in the course description under 'Type of assessment' whether part exams are assessed by using part grades or by using an overall assessment.

**Part exams assessed with part grades**

If part grades are used for the individual part exams on a course, the students are informed about these on a continuous basis, and the total final grade is the weighted average of the part grades, rounded to the nearest grade in accordance with the Danish 7-point grading scale. The final grade is rounded up if the average is half way between two grades. However, a special pass requirement applies at DTU for courses with part exams for which part grades are used.

The pass requirement is:
1) that the average grade of the part exams must be at least 02 without rounding up and
2) that no part grade must be below 00.

For some courses, it may be relevant to deviate from the above rule or to establish additional requirements for part grades. Such deviations must be approved by the Department Board of Studies and the dean. The deviations must be stated in the course description.

If the student does not participate in a part exam at which the students receive a grade, the student will automatically be assessed with the grade -3 or as ‘Fail’ for the course, depending on the course assessment form, due to the above pass requirement. If a student has not participated in any of the part exams, the student will be registered with EM (Ej Mødt). See also DTU Inside under ‘Illness or other lawful absence from mandatory activities’ under ‘Mandatory class participation and mandatory assignments’ under ‘Teaching’.

**Part exams based on an overall assessment**

In connection with overall assessments, no part grades are awarded, and the weights of the part exams serve only as a guideline for the students. Students are informed of and obtain only one grade for the course.

The course coordinator can decide that one or more part exams must be completed/approved as a condition for a grade or other assessment being given based on an overall assessment. In such case, this must be stated in the course description. If it is not stated in the course description, that part exams must be completed/approved, the student must have the possibility to pass the course by completing the final part exam alone, and the part exams that has not been completed/approved will then be a part of the overall assessment of the course.

**Exam forms**

A course exam may be written, practical, oral, or a combination thereof, for example a series of part exams during the course.

In connection with the approval of course descriptions, the Department Board of Studies decides on the form of assessment, including type of part exams, to be used on the course.

Different rules governing the main forms of assessment are described below. Other forms of assessment can be approved by the relevant Department Board of Studies.
Change of exam form
Students must contact ‘Study Administration’ (studadm@adm.dtu.dk) to apply for a change in the exam form (e.g. from written to oral exam) on the basis of special circumstances, for example a documented permanent functional impairment. ‘Study Administration’ will then contact the Department Board of Studies/course coordinator for an assessment of whether this is academically sound and practically possible to change the exam form. The Special Educational Support (SPS) employees (aus-sps@adm.dtu.dk) in the Office for Study Programmes and Student Affairs can provide assistance for this assessment as required. A precondition for allowing special exam arrangements is that the academic level of the exam is not lowered.

Practical exams as part of the teaching or as a final test
Courses comprising exercises (laboratory courses, workshop courses etc.) may be subject to continuous assessment or include a practical exam at the end of the course. The students must be informed of the criteria for the assessment, if the exams are subject to continuous assessment, at the beginning of the course. Each student’s contribution must be clearly stated so they can be assessed individually.

Oral exams
As a general rule, all oral exams are open to the public, but can be held behind closed doors under special circumstances justified, for instance, on grounds of student needs. Projects which, entirely or partially, are carried out with private companies, may, taking into account any information about trade secrets, know-how etc. in the report, be treated as confidential, be held behind closed doors too.

Oral exams may extend over several days. Any dates in addition to the specified exam dates must be agreed with the students. Students who are unable to attend an examination on these additional days, are entitled to participate in the exam on the exam date in accordance with the timetable or another day subject to agreement with the lecturer.

Oral exams must be taken before the end of the exam period, unless otherwise agreed between the course coordinator and the students.

Applicable from 1 September 2019 due to legal rights all oral exams must be conducted by two assessors. This also applies where the type of assessment includes an oral element. The second assessor may be either an external examiner or a co-examiner/assessor from DTU.

Oral group exams
An oral exam can take place as a group exam. Group exams are typically held in connection with written assignments prepared by two or more students (group project).

At oral group exams, the students are examined individually in such a way as to ensure that an individual assessment is made of the students’ performance. When organizing an oral group exam, the course coordinator must ensure that the time allocated for the exam is adapted to the number of students participating in the exam. All members of the project group are present during the entire exam.

It is important that each assessor notes the level and quality of participation of the individual students. The assessors must also ensure that all students participate in the exam to allow individual assessments to be made.

Students are entitled to be awarded the grade in private.
If an individual oral exam is held as a follow-up to a group project and as a follow-up to an oral group exam, if relevant, the other students in the group may not be present in the exam room before their own individual oral exam.

The possibility of choosing an individual exam instead of a group exam is only available to students with documented special educational needs. See above under ‘Change of exam form’. However, special rules apply to final projects. Read more at DTU Inside under ‘Final projects’ under ‘Structure and rules’, or in the study programme curriculum.

Submission of written assignments during the course
Submission of assignments, reports, posters, etc. may be

- an offer to students
- a prerequisite for being able to take the exam (mandatory assignments - see DTU Inside under ‘Mandatory participation in class and mandatory assignments’ under ‘Teaching’), or
- be included as part of the assessment basis (part exam).

Written assignments can be prepared individually or as group projects. The course coordinator must inform the students, if the project is expected to be individualized when prepared as a group project. If the project is not subjected to individualization, an oral examination must be held afterwards. This can either be conducted as a group exam or an individual exam. Find more information on group exams above under 'Oral group exams' and on group projects underneath.

Students can only expect to have take-home assignments corrected/assessed that have been submitted on time.

Group projects
DTU recommends a maximum of six students for group projects. The course coordinator may decide on a lower or higher maximum number than six if this is in line with the learning objectives for the course.

Special rules apply to group size for BEng projects, BSc projects and MSc theses (see DTU Inside under ‘Final projects’ under ‘Structure and rules’).

For group projects/group assignments, an independent grade or other assessment can only be awarded if the individual student’s contribution to the project can be ascertained (individualization). Thus, it is of great importance to the exam form whether the project is individualized or not (see below).

Before the students commence a group project, the course coordinator must inform the students whether they are required to individualize the project or not. If a group project does not comply with the requirements for individualization or other formal requirements, the paper may be rejected by the course responsible and no assessment given.

Group projects without individualization
A group project for which the students’ individual contributions are not specified must, according to the Examination Order, always be followed by an oral exam, as it is not possible to make an individual assessment on the basis of the group project alone. Only one grade will be given as an overall assessment based on the project and the subsequent oral exam. The oral exam can be either an individual exam (i.e. one student at a time) or an oral group exam; see the above.
Group projects with individualization
For group projects/group assignments, where individualization is required, students' individual contributions must be clearly distinguishable in regards to the chapters and sections in the assignment. For larger group projects, it is accepted that general descriptive sections such as the introduction, problem statement, scope, conclusion and the like are prepared jointly. Several students may well have the (main) responsibility for the same chapters/sections.

If the project states that the assignment in overall has been prepared jointly, this will not fulfill the requirement for individualization.

For individualized group assignments/group projects, there is no requirement for a subsequent oral exam, and the assessment can be done on the basis of the assignment/project alone.

Written exams (written on-site exams)
Written exams are always individual. The duration of the exam must be stated in the course description.
If less than ten students register for a written exam, the lecturer is entitled to change the assessment form to an oral exam up until one week after the exam registration deadline. This must be done with due regard for the fact that the students were expecting a written exam. The lecturer is responsible for notifying the students in the event of a change in the assessment form. If the lecturer and all registered students agree, another approved assessment form can be applied.

Exam papers must be prepared in the language of instruction. In connection with courses taught in English based on English teaching material, exam assignments must be prepared in English only. The students exam papers must be prepared in the language of instruction. The assessors may allow exam papers to be submitted in other languages. Special rules apply to MSc theses, cf. the programme specifications.

Students should arrive at a written exam 15 minutes before the exam begins to prepare themselves for the exam start. Students who show up after the exam has started will not be allowed to participate in the exam. They will then receive an assessment of ‘Did not take exam’ (‘Ej Mødt’).

Mobile phones, music players, ear protectors, electronic earplugs or the like must not be brought to the exam. Ordinary earplugs are allowed. The usage of earplugs are at the student's risk (announcements during exam). Mobile phones will be collected prior to the exam and stored by the invigilators during the exam. Mobile phones are stored at the owner's risk.

Find information on aids and materials at written exams at DTU Inside under 'Use of aids and materials at written exams' under 'Exam'.

Rescheduled exam for a cancelled written exam (on-site exam)
In each exam period a permanent scheme has been established extraordinary days in which to hold any rescheduled exams. A rescheduled exam is only to be used as an absolute emergency procedure if, in exceptional cases, a written exam (on-site exam) for a course cannot be held as planned after all options for holding the exam as planned have been exhausted.

A rescheduled exam is an offer to the students, which lapses if they decide not to take advantage of it. Students who do not take advantage of an offer of a rescheduled exam, will not have used an exam attempt. Students can only participate in a new exam, at the earliest, the next time a (re)exam is offered.
At DTU Inside under ‘Structure and rules’ / ‘Dates of exam’, there is an overview of the scheduling of rescheduled exams for two and a half years ahead.

Use of aids and materials at written exams

Exam assignments must generally be formulated in such a way that prevents them from becoming an aids and materials exam. Emphasis must be placed on testing the students’ academic knowledge at the time of the exam.

Students must not gain unauthorized access to information during the exam, including using the Internet. Therefore, students are not allowed to bring mobile phones etc. The exam paper submitted must be prepared during the exam.

Aids and materials permitted at exams are specified in the course description. There are three options:

1. No aids and materials permitted (except from standard dictionaries and calculators)
2. Written materials permitted (i.e. books, notes, old take-home assignments, etc. but not technical aids, for instance a laptop)
3. All aids and materials permitted (i.e. a standard laptop, tablet, or similar in addition to written materials). Internet access can only be granted, if the lecturer in writing has informed the students of this.

Students are always allowed to bring standard dictionaries, i.e. spelling dictionaries, contemporary language dictionaries, and other language dictionaries, but not, for example, technical or medical dictionaries. This does, however, not include language exams where dictionaries are not permitted.

Students are always allowed to bring a calculator, unless the department forbids the use of calculators or makes one available at the exam. The department can make computers available at the exam, in which case students are not allowed to bring their own computer.

Calculators, computers, and other electronic aids must not be set up in a way that enables communication with others inside or outside the exam room.

Students are not allowed to use their own printer at the exam.

Violation of the rules of using of aids and materials at written exams can lead to disciplinary measures towards students according to the rules regarding cheating at exams. Find more information on this at DTU Inside under ‘Exam’ / ‘Cheating at exams and other forms of assessment’.

Students are responsible for any aids and materials they bring to the exam, and DTU generally does not make any type of facilities available for the use of any aids. Students are not granted extra time for the exam if the aids they have brought to the exam have a malfunction, are out of power etc.

It is possible to apply for special conditions at a written exam and obtain permission to use compensating aids (e.g. assistive aids for dyslexics) for written exams, where aids are otherwise not permitted. (See ‘Special arrangements at written exams’ under ‘Exam’)

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Cheating at exams and other forms of assessment

DTU has ratified the Danish code of conduct for research integrity and, based on this, has formulated DTU’s own code of good scientific and ethical practice/conduct (DTU Code of Integrity in Research). This code, which includes everyone at DTU, means that students, and PhD students, through their projects and conduct during courses must demonstrate that they have understood the principles of good scientific practice. DTU’s principles for good scientific conduct can be found at DTU Inside under ‘Research’ and ‘Principles for good scientific conduct’.

As of the academic year 2017/2018, DTU has introduced an Honour Code for students at the BEng, BSc and MSc programmes. At the beginning of their studies, students must actively express their acceptance of the code in order to continue their studies at DTU. Acceptance of the Honour Code is a part of the commencement of studies exam for newly admitted BEng and BSc students. Admitted MSc students must express their acceptance of the code in connection with registration for courses in the 1st semester. More information on DTU’s code of honour can be found at DTU Inside under ‘Structure and Rules’.

DTU requires that students at DTU demonstrate independence in their work, and that the exam always reflects the students’ own work.

Cheating at exams and plagiarism

DTU considers it cheating if students at an exam:

- hand in work which they have not independently produced at the exam in question.
- use prohibited aids and materials at an exam.
- gain unauthorized access to information during the exam through other students or by using the Internet.
- demonstrate academic dishonesty, for example by manipulating or falsifying data.

DTU also considers it exam cheating if a student helps another student violate the exam rules.

Written assignments may only be submitted for assessment once. Written assignments previously assessed at DTU or another educational institution may not be reassessed, regardless of the grade earned and whether the assignment is the result of the student’s own previously submitted work.

At DTU Inside under ‘DTU’s code of honour’ under ‘Structure and rules’, examples are provided of violations of exam rules as well as guidance on the basic rules for quotes and source references in written assignments.

Procedure in case of cheating at exams

In accordance with section 9 of the Examination Order, DTU has laid down rules on disciplinary measures in cases of cheating and disruptive behaviour at exams (see DTU Inside under ‘Structure and rules’ / ‘Disciplinary measures’). Violation of the exam rules will thus result in disciplinary sanctions against the student.

If there is any suspicion of violation of the exam rules, the lecturer must notify the Office for Study Programmes and Student Affairs via eksamenssnyd@adm.dtu.dk.
As long as a case of exam cheating is pending, the reported student(s) have the right to participate in teaching and, depending on the extent of the alleged plagiarism/cheating, also in the exam.

A notifying report should contain the following information:

**Background specification:** A short description covering how exam behavior or the examination paper differs from the expected or correct answer. The background specification should clearly mark what is not considered to reflect the student’s independent performance. Within the context of plagiarism, it should be stated how the student could have quoted correctly.

**Flag exam cheating:** In the student’s exam paper or an independent document, developed by the lecturer, the plagiarised parts of the assignment should be marked clearly: Text, graphs, equations, document creation etc. The plagiarised parts should be marked clearly, e.g. by highlighting. When the system identifies plagiarism, the Urkund report should always be enclosed.

**Evaluation form:** What type of evaluation does the course have and how much does the part that contains supposed plagiarism/exam cheating weigh.

The teacher must be aware that the report is transmitted in original form to the student(s).

Following consultation of the student suspected of violating the rules, the Office for Study Programmes and Student Affairs makes a decision on the matter according to DTU's disciplinary measures against students.

The student can appeal the decision to the dean of the relevant programme within two weeks of receiving the decision. The appeal must be sent from the student mail to eksamenssnyd@adm.dtu.dk.

The Office for Study Programmes and Student Affairs can cancel an exam and request the student to resit the exam. This only occurs if there are reasonable grounds for suspicion of irregularities in connection with the student’s exam paper which strongly indicate that the student’s achievement of the current learning objectives cannot be assessed of the basis of the exam. The exam form in connection with the new exam may differ from the exam form at the ordinary exam. Exams which are cancelled due to suspicion of irregularities are not considered an exam attempt.

If the new exam substantially confirms suspicions of cheating, a decision may be taken in accordance with DTU’s rules regarding disciplinary measures for students.

If the new exam does not confirm the suspicions of cheating, the decision is taken the student cannot be deemed to have violated the exam rules. The student is assessed based on the performance at the new exam.

**Special exam arrangements**

**Special arrangements at written exams**
The Office for Study Programmes and Student Affairs may allow special exam arrangements at written exams within the ordinary exam periods for:

1. Students with physical or mental impairment (e.g. physical disability, dyslexia, etc.).
The impairment must have a significant impact on the student’s potential exam performance.
2. Students in their first year of study in Denmark whose native language and qualifying exam are not Danish, provided that the exam is in Danish only.

3. Students with similar difficulties, for instance students who are in the last month of pregnancy or who are breastfeeding an infant.

The reason for granting special arrangements must always be documented. Exam stress is not a valid reason for allowing special arrangements.

The following is considered valid documentation: a) dyslexia test, b) a doctor’s note from your own GP or a consultant describing the applicant’s study/exam-related challenges, c) documentation for a non-Danish qualifying exam (if applying on the basis of first year of study in Denmark), and d) a pregnancy journal (if applying due to pregnancy/birth).

For special exam arrangements to be allowed, the Office for Study Programmes and Student Affairs must deem this to be necessary to ensure that the student is examined on equal terms as the other students. It is a precondition for allowing special exam arrangements that the academic level of the exam is not lowered.

Applications for special exam arrangements must be submitted to aus-sps@adm.dtu.dk by 1 November at the latest for winter exams, by 15 April at the latest for summer exams, and by 15 June at the latest for re-exams in August. The application form can be found DTU Inside. In the case of emergencies (e.g. a broken arm), students can apply after the deadline by writing to studadm@adm.dtu.dk.

Students with permission to use their own computer can make a request to have non-digital exam assignments handed out on a USB key. The form can be found here. If the student wish to hand in his/her exam assignment on a USB key the student must inform the lecturer beforehand.

The deadlines for making a request to have your exam assignment handed out on a USB key are as follows:

- Ordinary winter exam after the autumn 13-week period: 1 November
- Exam after 3-week period in January: the last day of the supplementary registration period
- Ordinary summer exam after the spring 13-week period: 15 April
- Exam after 3-week period in June: the last day of the supplementary registration period
- Exam after 3-week period in July: the last day of the supplementary registration period
- Reexam and exam after 3-week period in August: the last day of the supplementary registration period

If the student wants to apply for special arrangements at written exams outside the ordinary exam periods, the student needs to refer to the conditions for oral examinations (see below), because these exams are administratively handled by the departmental course coordinators.

**Special arrangements at oral exams**
The course coordinators may allow special arrangements at oral exams.
The circumstances which form the basis for allowing such special arrangements must be documented.
Exam stress is not a valid reason for allowing special arrangements.

The following is considered valid documentation: a) dyslexia test, b) a doctor’s note from your own GP or a consultant describing the applicant’s study/exam-related challenges, c) documentation for a non-Danish qualifying exam (if applying on the basis of first year of study in Denmark), and d) a pregnancy journal (if applying due to pregnancy/birth).

For special exam arrangements to be allowed, the course coordinator must deem that it is necessary to ensure that the student is examined on equal terms with the other students. The SPS-team at the Office for Study Programmes and Student Affairs can assist the course coordinators in making this assessment as required. It is a precondition for allowing special exam arrangements that the academic level of the exam is not lowered.

In order to apply, the student must contact the course coordinator no later than one month before the oral exam in order to secure an agreement.

Illness in connection with exams

Unable to participate in the exam
Students who are unable to participate in an exam due to illness must send documentation of the illness through their student mail to the Office for Study Programmes and Student Affairs at studadm@adm.dtu.dk no later than two weeks following the date of the exam. If this procedure is followed, the student will automatically receive a new exam attempt and the unattended exam during the period of illness will get the registration 'Ill' (SYG). The course registration(s) are still binding, cf. DTU Inside under 'Teaching'/‘Binding courses'. The student in question must bear the expenses for the medical certificate.

Illness during the exam
Students who become ill during the exam must notify an invigilator or examiner before leaving the exam. Students must contact the doctor on the day of the exam or the proximate weekday at the latest.

If a student choose to complete an exam despite not feeling well, it will count as an exam attempt.
It is the students' responsibility to register for a new exam attempt in the same course.

If a student is unable to comply with one of the deadlines specified for the programme due to documented illness, the deadline will be extended until the next (re)-exam is held in the course in question without the student having to submit an application. If the student remains ill at the next exam in the course, the student must submit an application for an exemption to have the deadline extended again. However, the above does not apply if a deadline is granted through exemption. This also apply if an exam attempt has been granted through exemption in order to be used before an exact deadline. In such cases, students must immediately apply for exemption for a renewed postponement of the deadline.

Illness of a close family member
If a student is unable to participate in an exam due to severe illness of a family member or friend, or in case of a serious event that may affect the student’s performance at the exam, the student can apply for cancellation of the exam by submitting relevant documentation to the Office for Study
Programmes and Student Affairs via student mail to studadm@adm.dtu.dk. If the student has already completed the exam, it will count as an exam attempt, and the exam cannot be cancelled.

**Illness and exemption**
If a student cannot observe the study activity requirement and deadlines for the study programme because of documented illness, the deadlines will be extended without an application for exemption until the re-exam can take place. If the student is also ill for the re-exam, the student must apply for exemption.

The rule above regarding illness and exemption does not apply, if the student already has been given an exemption in regards to the study activity requirement or deadlines, or if the student has been granted an extra exam attempt. In this case, the student must apply for exemption immediately.

**Illness and final projects**
If a student falls ill while completing the final project, the rules in the students programme specification apply. Find the rules at DTU Inside under ‘Structure and rules’/‘Final projects’/‘Deadline’.

**External examiners and confidentiality**

All external examiners used at DTU must be members of the nationwide engineering examiner corps ([www.censornet.dk](http://www.censornet.dk)).

The external examiners' activities are covered by the Public Administration Act, including the provisions on disqualification and secrecy.

The course description specifies whether a course is assessed by an external examiner or as an internal examination. Final projects are always assessed by an external examiner.

Projects which, entirely or partially, are carried out with private companies, may, taking into account any information about trade secrets, know-how etc., be treated as confidential, which means that the oral presentation will not be open to the public. It may be agreed upon that the report must not be made publicly available.

**Deadlines for grading**

*Exams in 13-week courses:*
No later than 20 work days after the day of the exam.

*3-week courses:*
No later than 20 work days after the last day of the 3-week period.

*Engineering internship:*
No later than 20 work days after the submission date of the report.

*BEng project/BSc project/MSc thesis*
The grade is awarded in connection with the oral exam. The oral exam must be held no later than 10 work days after the scheduled submission date of the written report. In exceptional circumstances, the head of department can approve a later exam date for the oral exam.
Re-exams

Students may participate in an offered re-exam without having participated in the previous ordinary exam on a course if they meet the requirements for participation in the ordinary exam. See below under ‘Courses with mandatory assignments as a prerequisite for exam participation’.

On courses with part exams, students must be aware that a re-exam is solely a repetition of the final part exam on the course. See below under ‘Courses with part exams’.

Students who have not passed a course at the first exam attempt must themselves register for the subsequent exam attempt on the course.

The time of the re-exam will depend on when the course in question is offered:

- For courses offered in the 13-week autumn period with ordinary exams in December, the re-exam period is in May
- For courses offered in the 13-week spring period with ordinary exams in May, the re-exam period is in August
- For courses offered in the 3-week period in January with ordinary exams in January, the re-exam period is in May
- For courses offered in the 3-week periods June/July with ordinary exams in June/July, the re-exam period is in August
- For courses offered in the 3-week period in August with ordinary exams in August, the re-exam period is in December.

Courses offered in several of the above teaching periods have corresponding several re-exam periods.

If a course no longer is provided, two additional re-exams will be offered in the course. Location of dates regarding the re-exam will follow the rules mentioned above.

If, in exceptional cases, a course is not suitable to be offered for a re-exam based on a security or academic assessment, students who have not passed the course must attend the course again. The relevant Department Board of Studies must approve that the course is not suitable for being offered for a re-exam, and it must also be stated in the course description under ‘Evaluation form’.

An overview of exam dates can be found at DTU Inside (see ‘Dates of exams’ under ‘Exams’).

Registration for and withdrawal from re-exams must be done within the applicable deadlines (see ‘Registration deadlines for courses and examinations’ under ‘Exams’).

The course coordinator may decide that the evaluation form at the re-exam may differ from the evaluation form at the ordinary exam. The course coordinator must notify the students about the evaluation form at the re-exam in August no later than one week after the re-exam registration deadline. The course coordinator must notify the students about the evaluation form at the re-exam in May and December no later than one week after the exam registration deadline.

For rules on re-exams on special courses, see ‘Project courses’ under ‘Teaching’.

Courses with mandatory assignments as a prerequisite for exam participation
A student whose mandatory assignments have not been approved - and who therefore cannot participate in the ordinary exam—cannot participate in the re-exam on the course unless, before
then, the course coordinator has given the student a new opportunity to meet the prerequisite. The student is responsible for contacting the course coordinator to clarify this matter. Students who are unable to meet the prerequisites will have to attend the course again.

Students who meet the prerequisite for exam participation on a course - but who do not pass the exam - can take the re-exam on the course in the next re-exam period without having to submit the mandatory assignments, etc. again.

If students choose to postpone their re-exam - or if they do not pass their re-exam in accordance with the above - they are not entitled to be allowed to take (another) re-exam based on previously approved mandatory assignments, etc. This also applies in case the student do not attend the exam due to documented illness. Based on an academic assessment, the course coordinator may, however, approve that the student can register for a re-exam again without having to submit the assignments again.

Read more at DTU Inside under ‘Mandatory participation in class and mandatory assignments’.

Courses with part exams

In a course with part exams, any re-exam is only a repetition of the final part exam on the course. Part exams scheduled in the teaching period will thus not be offered as a re-exam or be assessed in the period between the ordinary exam and re-exam on the course. The course coordinator may deviate from this.

As a general rule, part exams already approved will be included in the next re-exam period. In connection with a re-exam, students are thus not entitled to retake an approved part exam.

However, under special circumstances, students may have to retake a passed part exam in connection with a re-exam. Such a decision is made by the course coordinator based on an academic assessment. In the case of disagreement between a student and a course coordinator regarding whether or not a part exam must be retaken in connection with a re-exam, the Department Board of Studies will make the decision.

The course coordinator may approve that passed/approved part exams are included in subsequent re-exams, this must be upon a request from the student.

Read more about part exams at DTU Inside under ‘Requirements for passing exams and part-exams’ under ‘Exams’

Special circumstances regarding final exams

If a student has been ill at the (re)exam during the exam period, in which the student should have completed his/her education, the student has the right to sit the re-exam in the same exam period or immediately after to the re-exam period. This also applies to a student who does not pass (grade -3 or 00, or not passed) a single (re)exam in the exam period in which the student should have completed his/her education. Students who have been absent from the exam (non-attendance) are not entitled to a quick re-exam.

Students wishing to take a quick re-exam according to the above rules, should contact the Office for Study Programmes and Student Affairs in person no later than 14 days after publication of the grade. If the student meets the requirements for a quick (re)exam, the office for Study Programmes and Student Affairs will inform the student. In consultation with the student, the lecturer determine the time and date of the (re)exam.
Exam complaints

The complaint
Complaints can be submitted regarding:

1. Legal issues
2. The basis for examination (questions, assignments etc.)
3. The exam process
4. The assessment

The complaint must be in writing and justified. Dissatisfaction with the grade without further justification does not suffice and does not qualify as a justified complaint. Complaints without sufficient justification will be rejected without being handled.

Complaints must include the student’s name, address, student ID number, and course number of the relevant course.

The complaint must be submitted using the student email (sxxxxxx@student.dtu.dk) to the Office for Study Programmes and Student Affairs via email to studenterklager@dtu.dk

Deadline for complaints
Exam complaints must be submitted within two weeks of the announcement of the grade on DTU Inside. For oral examinations, the deadline is two weeks after the examination is held.

If possible, students are encouraged to discuss their exam paper/performance with the course coordinator/examiner before submitting an exam complaint. The two-week submission deadline, however, still applies.

A complaint regarding a part-exam/part-grade may only be submitted after the student has been notified of the final grade/assessment of the course.

Assessment of the complaint
The Office for Study Programmes and Student Affairs forwards the complaint to the examiner and, if relevant, the co-examiner, who submit a statement on the assessment and all of the student’s objections. The assessors’ statement is then forwarded to the student, who has one week to comment on the statement.

A decision on the matter is made by the Office for Study Programmes and Student Affairs on the basis of the assessors’ statement and the student’s comments if any.

The decision
The decision on the matter may be one of the following:

1. The complaint is upheld, and the student is offered a reassessment (new assessment) by new assessors – however, this type of ruling is not possible in connection with oral exams
2. The complaint is upheld, and the student is offered a re-exam (new exam) assessed with new assessors
3. The student’s complaint is not upheld.

If the Office for Study Programmes and Student Affairs discovers a fault in the exam, the decision will mainly focus on correcting this. In this case, an assessment of the exam can be carried out by the original assessors.
If the student is offered a reassessment or re-exam, the student has two weeks to accept the offer. The student must be aware that a re-exam and a reassessment may result in a lower grade. It is not possible to complain about the assessment of a re-exam or a reassessment unless the complaint concerns legal issues.

**Appeal**

If the student’s complaint is not upheld, the student has the possibility of appealing against the decision. The appeal must be filed within two weeks of announcement of the decision. It must be justified in writing and submitted to studenterklager@dtu.dk using the student email address. The decision is made by a board of appeals of 4 members appointed specifically to make a decision on the matter, comprising two external examiners, a lecturer, and a student within the relevant subject area. The decision of the board of appeals may be:

1. The student is offered a reassessment by new assessors (however, not in connection with oral exams).
2. The student is offered a re-exam with new assessors.
3. The student’s appeal is not upheld.
4. If the Office for Study Programmes and Student Affairs discovers a fault in the exam, the decision will mainly focus on correcting this. In this case, an assessment of the exam can be carried out by the original assessors.

The board of appeals is in no position to lower or higher the student’s grade. The decision of the board of appeals cannot be further appealed with respect to academic issues.

**Exam certificate/diploma**

When a student has completed a study programme at DTU, DTU issues an exam certificate/diploma. The exam certificate/diploma lists all the exams which the student has passed within the student’s curriculum.

The exam certificate/diploma is dated with the date on which the study programme ended:

- If the final element is a BEng project, a BSc project, or an MSc thesis, the exam certificate/diploma will be dated with the date of the oral presentation.
- If the final element is a course, the exam certificate/diploma will be dated with the date on which the last course was assessed.

The exam certificate/diploma will be sent to the student’s registered address no later than two months after the end of the study programme (however, not including July).

Students who are withdrawn from a study programme at DTU without having completed it will receive documentation for any successfully completed parts of the programme stated in ECTS credits.
Credit Transfer, Studying Abroad, Exemption, Leave, etc.

Credit transfer from previously non-completed study programmes at the same level (pre-commencement credit transfer)

Credit transfer means replacing elements forming part of the student’s study programme at DTU by courses or exams passed at another Danish or foreign educational institution. DTU may grant credit transfer upon submission of an application.

Upon admission to DTU’s BEng, BSc, and MSc programmes, students are obliged to apply for credit transfer for passed programme elements (courses etc.) from all previous non-completed ordinary study programmes at the same level. This may, for example, be the case if an applicant to a BSc programme has previously been admitted to another BSc programme without having completed the programme.

If students do not submit an application for credit transfer for previously passed programme elements at the same level or submit incorrect or incomplete information thereon, DTU may retract the enrolment at the university.

If it is deemed by the Head of studies, that credit transfer for programme elements can be granted to the mandatory parts of the programme, students will be granted credit transfer.

If it is deemed that credit transfer for programme elements to a mandatory course/project can only be granted partial, it is up to the student to decide whether he/she wants the partial credit transfer. Once the student has used an exam attempt in the mandatory course/project, the decision not to have the partial credit transfer is binding. Transfer is only possible if the partial credit amounts to a minimum of 5 ECTS credits and minimum half of the ECTS scope of the course/project.

If it is deemed that credit transfer for programme elements can be granted to the elective parts of the programme, students can decide whether they want credit transfer.

A credit transfer for both mandatory and elective parts of the programme cannot be withdrawn once it has been granted.

It is possible for students who wish so, to apply for credit transfer for programme elements from previous completed study programmes at the same level.

For students admitted from the summer 2017 it applies for the BEng and BSc programmes that courses must be at professional bachelor or BEng level as a minimum. For the MSc programmes the courses must be at MSc level as a minimum.

BEng students who have completed a higher education programme in technical sciences prior to admission can apply for credit transfer for parts of the programme, provided that an established credit transfer agreement has been concluded. For information on current established credit transfer agreements, please send an email to merit@adm.dtu.dk.

When granted a pre-commencement credit transfer, students can still obtain a diploma from DTU even though credit transfer has been granted for more than half of the programme.
Exam attempts
Students who are admitted to DTU via quota 1 or 2, and who have used exam attempts on failed courses they have previously attended at DTU on another study programme will automatically be assigned three new exam attempts on the relevant courses if these courses may be included in the study programme.

Non-transferrable programme elements
Students cannot be granted transfer of credits from the qualifying programme/exam.

A final project from another educational programme cannot be transferred as substitution for the final project to a DTU study programme. The project or elements of the project can only be transferred to the student’s programme as substitution for other programme elements (courses), and if approved by the Head of Study.

If the last passed course on the student’s DTU study programme dates back more than five years prior to readmission, courses on the study programme cannot - as a general rule - be transferred to the new study programme to which the student has been admitted. However, an exemption may be granted from this rule in special cases following an application from the student. The relevant head of studies will assess whether an exemption may be granted from the five-year limitation period. The assessment of the exemption will be processed in connection with the assessment of the application for readmission. Courses, that dates back more than five years, will only be transferred to the applicants new study programme, if the applicant wishes to do so.

Study activity requirements and programme deadlines in relation to pre-commencement credit transfer
Students who have been granted pre-commencement credit transfer must still comply with the study activity requirement (30 ECTS credits in the first year of study and 45 ECTS credits in each of the following years of study). The number of transferred ECTS credits will not be deducted from the study activity requirement.

The maximum duration of study is reduced with one semester for each 30 ECTS credits the student has been granted in pre-commencement credit transfer.

If the student has been granted pre-commencement credit transfer on courses that is included in the first-year exam. In order to pass the first year exam the student is only required to pass the remaining elements.

Decision-making authority
The exemption committee for the BSc and MSc programmes (CMDU) and the exemption committee for the BEng programmes (DMDU) have authorized the heads of studies and the Office for Study Programmes and Student Affairs (AUS) to make decisions in cases related to credit transfer.

A decision on credit transfer is not valid until a written decision has been issued to the student by the Office for Study Programmes and Student Affairs (AUS) via email or at www.merit.dtu.dk.

Credit transfer during the study programme
Courses must be ‘passed’ in order to be transferred to the programme.
For BEng programmes, transferred courses must be at BEng level as a minimum, i.e. from an engineering college, a university college, or a university.

For BSc programmes, transferred courses must be at university level.

For MSc programmes, transferred courses must be at MSc level. As part of the MSc programme 10 ECTS credits may be on BSc level, though. BSc level courses always form part of the electives group.

BEng and BSc students must as a minimum pass courses and projects at DTU corresponding to 90 ECTS credits (BEng Arctic Technology and Fisheries Technology: 105 ECTS credits and BEng Global Business Engineering: 120 ECTS credits) to receive a diploma for a full-time study programme at DTU. This rule does not, however, apply to pre-commencement credit transfer.

MSc students must as a minimum pass courses and projects at DTU corresponding to 60 ECTS credits to receive a diploma for a full-time study programme at DTU. This rule does not apply to pre-commencement credit transfer.

As a rule, courses that will make students exceed the prescribed ECTS credit total of the DTU study programme cannot be pre-approved or transferred. In some cases, however, the amount of ECTS credits transferred are not exactly the same as the size of the courses at DTU. In these cases, students may register for a final course of up to 5 ECTS credits – even if this means exceeding the prescribed ECTS credits total of the programme in question.

Choice of courses

As regards credit transfer to BSc and MSc programmes, a distinction is made between specific engineering courses and general engineering courses. Courses that do not have technical-scientific content, but fall within the learning objectives of the study programme, are categorized as general engineering courses. Students may earn the following number of ECTS credits within the general engineering course category:

- 15 ECTS credits on the BSc programme
- 10 ECTS credits on the MSc programme

Language and culture courses can only be approved in connection with study abroad semesters and may not exceed 5 ECTS credits. Such courses are always transferred as BSc credits and are therefore included in the maximum of 10 ECTS credits at BSc level which MSc students are allowed to take as part of their programme. For BSc and MSc students, they are considered part of the general engineering courses as described above. For BEng students, they are considered part of the elective courses. Only language and culture courses related to the country in which the student is on the exchange can be transferred. English language courses cannot be transferred to the programme. Pre-commencement credit transfer for language and culture courses will not be granted.

A final project from another Danish or foreign educational institution cannot be transferred to a study programme at DTU. Further rules regarding final projects (BEng project, BSc project and Master's thesis), including the possibility to prepare the project abroad, are stated in the programme specifications for the said programme.

Pre-approval of credit transfer
Before taking a course/going abroad, students are obliged to apply for pre-approval of credit transfer for planned programme elements from another university or another institution of higher education in Denmark or abroad.

If the pre-approved courses, which the student is taking at the host university, change during the semester, the student must submit a new application for a pre-approval of credit transfer. Each application must include a complete list of courses taken at the host university.

By applying, students give their consent to DTU requesting the necessary information regarding the (pre-approved) credit transfer from the host institution if the students are unable to procure the documentation themselves.

The pre-approval of credit transfer is registered as a course registration and ensures that students are registered as studying actively during the semester in which they are not registered for courses at DTU due to study stays etc. elsewhere.

Final credit transfer
All passed courses and ECTS credits must subsequently be transferred to the study programme. Therefore, students cannot apply for credit transfer for some of the passed courses or ECTS credits only. A credit transfer cannot be withdrawn once it has been granted.

In connection with credit transfer for completed programme elements from another educational institution, the grade ‘Pass’ will appear on the student’s DTU diploma.

Submission of applications
Applications for pre-approval of credit transfer and final credit transfer are submitted electronically via www.merit.dtu.dk. Other enquiries regarding credit transfer are sent to merit@adm.dtu.dk via the student email.

Applications must include the following:

- Course description
- Documentation of level
- Documentation of workload
- An official description of the grading scale, according to which the course is assessed
- As regards final credit transfer, documentation of passed and failed courses.

Decision-making authority
The exemption committee for the BSc and MSc programmes (CMDU) and the exemption committee for the BEng programmes (DMDU) have authorized the heads of studies and the Office for Study Programmes and Student Affairs (AUS) to make decisions in cases related to credit transfer.

A decision on credit transfer is not valid until a written decision has been issued to the student by the Office for Study Programmes and Student Affairs (AUS) via www.merit.dtu.dk.

Students who have completed MSc courses on their BSc programme
MSc students who, as part of their qualifying exam, have passed a course corresponding to courses in either the general competence group or the technological specialization group for the MSc programme must take a different course that contributes to the overall learning outcomes of the programme in question. This also applies if the student otherwise has acquired academic knowledge and competences.

DTU courses
If the course belongs to the general competence group, students must choose a different course from the general competence group or the technological specialization group. In the latter case, students must contact the Study Administration at studadm@adm.dtu.dk.

If the course belongs to the technological specialization group, students must choose a different course in the technological specialization group.

Non DTU courses
If it is not possible to choose a different course in line with the above rules or if the course is not from DTU, students must obtain approval from the head of studies to take a different course that supports the academic profile of the study programme. The head of studies contacts the Study Administration. When in doubt of the programme level of the course or the conversion of the credits from abroad to ECTS credits, the head of studies or the student are welcome to contact merit@adm.dtu.dk.

Studying abroad
A thorough description of the possibilities for studying abroad and the application deadlines can be found at DTU Inside under 'Study Abroad' or at DTU’s website Studyabroad.dtu.dk and BeyondBorders.dtu.dk.

To be eligible for an exchange place, students must meet the following criteria:

- Students enrolled on a BSc or BEng programme must have completed at least two years of study (approximately 120, minimum 110, ECTS credits) prior to commencement of the exchange stay, unless the student is attending a summer school abroad.
- Students must be enrolled on an ordinary full-time DTU programme at the time of application and during the entire exchange stay. Students must have credit availability for transferring minimum 20 ECTS credits from their stay abroad.

Students are expected to be full-time students (30 ECTS credits per semester). Students must have space in their curriculum to obtain pre-approval and credit transfer of minimum 20 ECTS points from their study abroad. Students who do not comply with this requirement may be requested to repay any grants received from DTU. All pre-approved courses that has been passed must be transferred to the study programme.

Students must at all times comply with other study activity requirement and deadlines laid down by DTU, the host university, and other relevant bodies. Find information on DTU’s study activity requirements and deadlines on DTU Inside under 'Structure and Rules'/Study Activity Requirements and Deadlines'.

Students are expected to pass and transfer at least 20 ECTS credits per semester (however, not students attending summer school abroad) and comply with other study activity requirements made by DTU, the host university, and other relevant bodies. Students who do not comply with this requirement may be requested to repay any grants received from DTU.
Students are obliged to apply for pre-approved credit transfer for planned programme elements from another institution of higher education in Denmark or abroad before the course/stay is commenced. See chapter about Credit transfers under the study programme for further information.

**Transferring to MSc programme**

Students lacking 55 ECTS credits or less of their BEng/BSc programme at DTU can apply to take MSc courses worth a total of up to 30 ECTS credits, provided that they wish to apply for admission to an MSc programme at DTU and meet the admission requirements and academic prerequisites for admission into the MSc programme in question. Exemption will not be granted for additional ECTS credits. The using of this rule may not lead to a prolongation of the total time of study of the BEng/BSc programme.

The desired MSc courses can be special courses. In that case, the student in his/her application must specify the department that delivers the special course, and how many ECTS credits the individual special course constitutes.

As a general rule, students must take courses, which are part of their BEng or BSc programme concurrently with the courses forming part of the future MSc programme. Transfer to MSc programme must not cause an extension of the study period for the BSc Eng/BEng programme.

When processing the application, DTU places emphasis on whether the student is deemed to have the academic prerequisites to complete courses on the MSc programme concurrently with completing the BSc/BEng programme.

The student must still apply for admission to the MSc programme before completing the BSc/BEng programme.

A digital application form can be found at [DTU Inside under ‘Structure and rules’ / ‘Transferring to a MSc programme’](https://dtu.force.com/dtuinside#!/idProduct/01I00000002Fz13). The application must be filled in and sent from the student email to kandidatopt@adm.dtu.dk. Decision regarding the application will be sent to the student email.

Deadline for applications:

- 13-week periods: One week after the beginning of the semester at the latest
- 3-week periods June, July and August: 1 May
- 3-week period January: 15 November

Students can only apply for one semester at a time. The semester of autumn runs from September up to and including January. The semester of spring runs from February up to and including August.

In allowing the student to take MSc courses concurrently with completing the BSc/BEng programme, DTU makes no decision on whether the student has exceeded any study activity requirements or deadlines, is in need of extra examination attempts or exemption hereof etc.

Students who have taken MSc courses concurrently with completing their BSc/BEng programme must still comply with the study activity requirement following admission to the MSc programme. The number of transferred ECTS credits will not be deducted from the study activity requirement.
Applicable from the academic year 2018/2019 the maximum duration of study is reduced with one semester if students have passed 30 ECTS credits of MSc courses under the transitional procedure.

**MSc courses passed under the transitional procedure**
MSc courses passed under the transitional procedure will automatically be transferred from the BEng/BSc programme when the student is admitted to the MSc programme.

If the student chooses a different MSc study programme to that originally planned, only passed MSc courses, which are mandatory for the new study programme will be transferred. However, the student can always ask to have passed electives transferred. The same then applies as when changing study programme.

**MSc courses not passed under the transitional procedure**
For a MSc course, which the student does not pass under the transitional procedure, the rule on binding courses applies. Find more information on DTU Inside under 'Structure and Rules'/Teaching'/ 'Binding Courses'.

If the student applies to do a different MSc study programme to that originally planned, his or her binding registration for a failed course will be cancelled unless the course is mandatory on the new study programme.

**SU on completion of BEng/BSc programme**
The BEng/BSc programme has been completed when the grade in the last course/project on the study programme has been registered. This also applies even if the final grade is registered in the middle of the semester and even if the courses in the semester that the transfer of courses concerns are not yet concluded.

When the BEng/BSc programme is completed, the student will no longer be entitled to receive SU or a completion loan. This means that when the student completes his BEng/BSc programme, he or she is no longer enrolled on a study programme and is therefore not entitled to SU even though the student in question is still following courses in the semester that the transfer of courses concerns.

**Exemption**

Students who fail to comply with DTU’s rules governing their study programme may only continue their studies if granted an exemption. DTU’s exemption committee may grant an exemption from rules contained in curricula, course descriptions, and DTU’s rules and regulations, provided that the exemption does not conflict with any acts or ministerial orders in the field of education.

The decision of the exemption committee on an application for exemption is always discretionary and based upon an individual assessment of the students reasons combined with the circumstances concerning the situation..

**The application**
Applications for exemptions must be submitted electronically via the exemption application system www.dispensation.dtu.dk. You can read more about submitting exemption applications in the Student Counselling Office’s guide ‘I want to apply for exemption’, Meeting dates for the exemption committees and application deadlines can be found at DTU Inside under ‘Deadlines and meeting dates’ under ‘Exemption’. 
Students who submit their application for exemption within the given deadlines, can expect to receive a decision no later than 8-10 weeks after the exemption committee has processed the application. Questions regarding exemption can be directed to the Study Guidance or to the exemption team on studiedispensation@adm.dtu.dk.

Application requirements
Applications for exemption must be justified and accompanied by the necessary documentation. Applications for exemption regarding illness must always be accompanied by medical documentation. The student in question must bear the expenses for the medical certificate. An application must also always be accompanied by a realistic study plan (prepared in the study planner) as well as a transcript of records including all exam attempts.

Circumstances where exemption may be granted
Applications for exemptions can be justified by the following:

1. Special circumstances, where the student is without fault. These circumstances can be such as personal illness, serious illness/death of a close relative, civic duties to serve as a lay judge or juror, compulsory military service, or other unusual, external circumstances in the life of the individual student and for which the student is not usually responsible.
   A medical certificate for both physical and mental illness should include the doctor’s assessment of how the illness affects the ability of the student to study, including a prognosis of the duration of the disease if possible.

2. The student has a functional impairment, where any special educational support (SPS) does not compensate sufficiently for the impairment. Documentation must be provided for the impairment, including any compensation the student receives in the form of special educational support.

3. The student is an elite athlete. The applicant must attach a statement from the relevant sports association which documents that the student is an elite athlete.

4. The student is an entrepreneur. Students must provide documentation on having their own business which has revenue and income-generating activities (company registration no. (SE no., annual accounts, and a description of the company should be supplied). The student’s business must have a relevant engineering profile. Alternatively, the student can be a part of an entrepreneurial environment, for example an incubator or entrepreneurial environment at DTU or regional growth environments.

5. The student is chairman of a voluntary organization under the Danish Youth Council (DUF), a member of the board of Polyteknisk Forening (PF student association), or similar organizations. It must be documented that the activities are so time-consuming that being a full-time student is not possible.

Exemption in connection with maternity/paternity leave
Upon submission of an application, the study activity requirement will be reduced by 45 ECTS credits for the birth giving parent. At the same time, the maximum period of study is extended by one year. Any first-year exams will be postponed correspondingly.

Upon submission of an application, the study activity requirement will be reduced by 22.5 ECTS credits for the non birth giving parent. At the same time, the maximum period of study is extended by six months. Any first-year exams will be postponed correspondingly.
Upon submission of an application, the study activity requirement will be reduced by 25 ECTS credits for a birth giving parent enrolled at a Corporate MSc Eng Programmes, and the maximum period of study is extended by one year. For the non birth giving parent enrolled at a Corporate MSc Eng Programme the study activity requirement will be reduced by 12.5 ECTS credits, and the maximum period of study is extended by six months.

Applications to reduce the study activity requirement on grounds of maternity/paternity leave must be made by filling out a form on ‘Application to extend deadlines due to parenthood’ and sending it via email from the student email address accompanied by the required documentation to studadm@adm.dtu.dk. The application must be submitted by the student no later than a year after the birth of the child.

_Circumstances which do not generally entitle students to exemptions_
As a general rule, the exemption committees do not grant exemptions based on the following circumstances:

- Regular or voluntary work
- Participation in committee and board work, including department boards of studies and the advisory committees for the MSc programmes (CUU) and BEng programmes (DUU), respectively
- Lack of knowledge of the rules governing the study programme
- Personal circumstances, such as housing or financial problems, etc.

_Appeal_
Students who are not granted an exemption can appeal against the decision to the Dean of Undergraduate Studies and Student Affairs, who has been authorized by DTU’s President to deal with appeals regarding exemption decisions. The deadline for submitting an appeal is two weeks from the day on which the committee’s decision is announced to the student. Appeals must be made in writing and reasoned, and must be submitted via the exemption application system [www.dispensation.dtu.dk](http://www.dispensation.dtu.dk). The assessment of the appeal to the Dean is approximately 3 months.

_Leave of absence_

Students are able to apply for justified leave of absence from their study programme for up to one year. Leave of absence on special grounds may, for example, be due to, adoption, military service, or illness.

Students will not receive monthly grants (SU) during their leave of absence. Deadlines relating to the study programme, e.g. the first-year exam and maximum duration of study, will be extended by the period of leave (calculated in entire semesters).

_Personal illness_
The student can apply for leave of absence due to any illness, which leaves the student incapable of active study, this includes mental illness. It is a requirement, that the student submits medical certificate as documentation, which must state that the student is unable to study as a result of the illness, and the medical certificate must also state how long the student will be or is expected to be ill.
Illness of a close relative

The student can be granted leave of absence to care for a close relative who is seriously ill or dying. Parents, grandparents, children, and spouse/cohabiting partner are considered as close relatives. However, other persons may also be regarded as being close. It must be documented that the person in question is close, and that he or she is seriously ill.

Other special circumstances

The student can be granted leave of absence due to other special circumstances that may justify this. Special circumstances are factors which make or will make it impossible for the student to engage in active study. In other words, factors which are beyond the control of the student and which must be documented.

The student must submit applications for leave of absence as well as documentation to the Office for Study Programmes and Student Affairs at studadm@adm.dtu.dk from the student’s student email address. The application must be submitted no later than three weeks into the required period of leave. The application form can be found at DTU Inside under ‘Leave of Absence’.

Students who have failed to comply with DTU’s rules regarding study programmes cannot apply for leave of absence until they have been granted an exemption to continue their studies.

All study activity must stop during the period of leave. This includes participation in courses and the submission of projects. However, students may continue to register for and sit exams in the exam period during their leave of absence.

Students may only exercise their voting rights and retain their eligibility during a leave of absence period exceeding six months if the period of leave expires at the beginning of the term of office at the latest.

During the period of leave, students must stay up to date on study announcements posted by DTU.

Students who want to return to their studies before the end of their leave of absence must send an email to studadm@adm.dtu.dk to that effect.

If a student wishes to extend his/her leave of absence in excess of one year on the same grounds, the student must apply for an exemption for extended leave at www.dispensation.dtu.dk. More information can be found at DTU Inside under ‘Structure and rules’ / ‘Exemption’.

SU (State Educational Grant and Loan Scheme)

Students should note the differences between DTU’s study-related rules and the legislation governing the State Educational Grant and Loan Scheme. Exemptions from DTU’s study-related rules will therefore not take account of SU issues. Likewise, SU-related decisions will not have an impact on DTU’s study-related rules.

This means that students who are granted an exemption from DTU’s study-related rules do not necessarily comply with the terms of the Danish Act on the State Educational Grant and Loan Scheme for continuing to receive SU. Therefore, students may risk losing their SU in spite of any decisions made by DTU.

Rules on SU can be found on the website of the Danish Agency for Science and Higher Education: www.su.dk. All rules governing SU can be found in the Danish Act on the State Educational Grant and Loan Scheme (SU-loven) and the Ministerial Order on the Danish State Educational Grant and
Loan Scheme (SU-bekendtgørelsen), (see ‘Love og bekendtgørelser’). These rules constitute the basis for decisions made by the SU office at DTU.

Further information about SU can be found at DTU Inside under ‘State Educational Grant and Loan Scheme (SU)’.

Withdrawal from study programmes

Students who wish to withdraw from their study programme at DTU are obligated to fill out a withdrawal form at DTU Inside under 'Structure and rules' / 'Withdrawal from study programmes'. The filled out form must be sent from the DTU student mail to studadm@adm.dtu.dk.

Please note a withdrawal cannot be cancelled.

Students cannot be enrolled on more that one full-time study programme at the time.

There are several things a student has to be aware of when considering withdrawing from the study programme. Therefore it is always recommended to contact the Study Guidance office (Danish students) or International Study Guidance Office (non-Danish students) for guidance on the issue prior to withdrawal.

Readmission into BSc Eng and BENG programmes

If previously enrolled students want to study at DTU again, they can apply for readmission.

Rules regarding readmission only applies, if a student applies for the same study degree. All BSc Eng are considered as the same type of degree, and all BEng are considered as the same type of degree. If the student previously studied one type of programme and now wish to apply for a new type of programme, the student must apply for admission or change of study programme.

If applicants have themselves withdrawn from their study programme, they may be readmitted to the same study programme within the same type of degree (BSc, BEng or MSc) at the earliest five months after their enrolment was terminated.

Applicants who have been disenrolled from their study programme by DTU for study-related reasons or who are in violation of DTU's rules at the time of application for readmission will need to apply for an exemption. Such an application is only to be submitted once the applicant has been notified by DTU that he or she must apply for an exemption. An exemption must be applied for regardless of whether the student is applying for a place on a different study programme than the one in which the student was previously enrolled. If the application for an exemption is accepted, it will be assessed whether the applicant can be readmitted. If the application for an exemption cannot be accepted, the student's application for readmission will be rejected.

If applicants apply for readmission and have already completed a higher education programme, they will be covered by the Danish Act on Barring of Second Degrees (Lov om begrænsning af dobbeltuddannelse).

Courses/educational elements passed more than five years prior to readmission to DTU, cannot - as a general rule - be transferred to the student's new enrollment. However, the relevant head of study may, in special cases, make an exemption from this rule on the basis of a specific academic
assessment. Whether an exemption can be granted is assessed by the head of study in connection with the assessment of the readmission application. Courses, that dates back more than five years, will only be transferred to the applicants new study programme, is the applicant wishes to do so.

**Application and application deadlines**

*Readmission with study start on 1 September*
Applicants who apply for readmission must comply with the same deadlines as other applicants for DTU’s BSc and BEng programmes. Application deadlines are found at [DTU.dk under ‘Admission to BSc and BEng programmes’](https://www.dtu.dk/en). However, it should be noted that applicants who have already passed 60 ECTS credits or more on higher education programmes must apply for readmission no later than on 1 May.

Applications for readmission are submitted via [www.optagelse.dk](https://www.optagelse.dk).

*Readmission with study start on 1 February*
Applicants who apply for readmission must comply with the same deadlines as other applicants for DTU’s BSc and BEng programmes. Application deadlines are found at [DTU.dk under ‘Admission to BSc and BEng programmes’](https://www.dtu.dk/en). However, it should be noted that applicants who have already passed 60 ECTS credits or more on higher education programmes must apply for readmission no later than on 1 November.

Readmission is applied for via an application form, which is available during the application period at [DTU’s website under ‘Special information about winter admissions’](https://www.dtu.dk/en).

**Processing of the application**
Applicant may be readmitted either outside the ordinary admission or through the ordinary admission.

Applicants will be readmitted **outside** the ordinary admission (quotas 1 and 2) if all the following conditions are met:

- The applicants meet the applicable admission requirements for the study programme.
- The applicants are granted an exemption following any application for this.
- The applicants have passed courses corresponding to the first academic year of the study programme for which they are applying for readmission. On a BEng programme, the first year of study has been passed if minimum the first and second semesters of the study programme in question have been passed. On a BSc programme, the first year of study has been passed if minimum 60 ECTS credits from the three mandatory blocks of courses (basic natural science courses, technological specialization courses, and projects and professional skills courses) have been passed.
- There are vacant places at the level of study on the study programme for which the applicants are applying. If the number of students applying for readmission exceeds the number of vacant study places, the places will be distributed in a decreasing order of grade point average from the qualifying upper secondary school exam.

Applicants will be readmitted **through** the ordinary admission (quotas 1 and 2) if all the criteria mentioned below are met:

- The applicants meet the applicable admission requirements for the study programme.
- The applicants are granted an exemption following any application for this.
- The applicants have passed courses corresponding to the first academic year of the study programme for which they are applying for readmission. On a BEng programme, the first year of study has been passed if minimum the first and second semesters of the study programme in question have been passed. On a BSc programme, the first year of study has been passed if minimum 60 ECTS credits from the three mandatory blocks of courses (basic natural science courses, technological specialization courses, and projects and professional skills courses) have been passed.
- There are vacant places at the level of study on the study programme for which the applicants are applying. If the number of students applying for readmission exceeds the number of vacant study places, the places will be distributed in a decreasing order of grade point average from the qualifying upper secondary school exam.
The applicants meet the applicable admission requirements for the study programme.

The applicants are granted an exemption following any application for this.

The applicants have not passed courses corresponding to the first academic year of the study programme for which they are applying for readmission.

- On a BEng programme, the first year of study has been passed if minimum the first and second semesters of the study programme in question have been passed.
- On a BSc programme, the first year of study has been passed if minimum 60 ECTS credits from the three mandatory blocks of courses (basic natural science courses, technological specialization courses, and projects and professional skills courses) have been passed.

The applicants’ grade point average is high enough for admission through quota 1, or if the applicants are prioritized high enough to be admitted through quota 2.

**Deadlines and exam attempts for students who are readmitted to BSc and BEng programmes**

**Deadlines**
The study activity requirement for students readmitted through the ordinary admission is a minimum of 30 ECTS credits in the first academic year and subsequently a minimum of 45 ECTS credits per academic year. The academic year is calculated from the date of readmission.

The study activity requirement for students readmitted outside the ordinary admission is a minimum of 45 ECTS credits per academic year accumulated. The academic year is calculated from the date of readmission.

The maximum period of study for readmitted students is the prescribed period of study + one year from the readmission date. The maximum period of study will be reduced by one semester for every 30 ECTS credits which the student has already passed.

**Exam attempts**

- **Readmission to the same study programme**
  The students are granted a new exam attempt on courses for which all exam attempts have been used if the course forms part of the study programme.

- **Readmission to new study programme through the ordinary admission (quotas 1 and 2)**
  For students who are readmitted to DTU on a new study programme, the number of used exam attempts on failed courses they have previously attended at DTU is zeroed. The students are allocated three new exam attempts on the courses in question if these courses can be included in the study programme to which the students are now readmitted.

- **Readmission to new study programme outside the ordinary admission (quotas 1 and 2)**
  The students are granted a new exam attempt on courses for which all exam attempts have been used if the course forms part of the study programme.

**Readmission into the MSc Eng programme**

If previously enrolled students want to study at DTU again, they can apply for readmission.
If applicants have themselves withdrawn from their study programme, they may be readmitted to the same study programme within the same type of degree (BSc, BEng or MSc) at the earliest five months after their enrolment was terminated.

Applicants who have been disenrolled from their study programme by DTU for study-related reasons or who are in violation of DTU’s rules at the time of application for readmission will need to apply for an exemption. Such an application is only to be submitted once the applicant has been notified by DTU that he or she must apply for an exemption. An exemption must be applied for regardless of whether the student is applying for a place on a different study programme than the one in which the student was previously enrolled. If the application for an exemption is accepted, it will be assessed whether the applicant can be readmitted. If the application for an exemption cannot be accepted, the student’s application for readmission will be rejected.

If applicants apply for readmission and have already completed a higher education programme, they will be covered by the Danish Act on Barring of Second Degrees (Lov om begrænsning af dobbeltuddannelse).

If the student is readmitted to the same master's programme, all courses, both compulsory and optional which the student has previously passed or failed in this programme, will automatically be transferred to the new enrollment and will therefore still be part of the student's new study plan.

Courses/educational elements passed more than five years prior to readmission to DTU, cannot - as a general rule - be transferred to the student's new enrollment. However, the relevant head of study may, in special cases, make an exemption from this rule on the basis of a specific academic assessment. Whether an exemption can be granted is assessed by the head of study in connection with the assessment of the readmission application. Courses, that dates back more than five years, will only be transferred to the applicants new study programme, is the applicant wishes to do so.

**Application and application deadlines**
Applications for readmission to the MSc programme are submitted via DTU’s ordinary admission to the MSc programme in accordance with the applicable deadlines and admission requirements.

See more at DTU’s website under ‘How to apply for MSc in Engineering programmes’.

**Processing of the application**
Applicants will be readmitted if all the following conditions are met:

- The applicants meet the applicable admission requirements for the study programme on the date of admission.
- The applicants are granted an exemption following any application for this.

**Deadlines for students readmitted to MSc programmes**
The study activity requirement for students readmitted to an MSc programme is a minimum of 30 ECTS credits in the first academic year and subsequently a minimum of 45 ECTS credits per academic year accumulated. The academic year is calculated from the date of readmission.

The maximum period of study for readmitted students is the prescribed period of study + one year from the readmission date. The maximum period of study will be reduced by one semester for every 30 ECTS credits which the student has already passed.
Change of study programme and field of study on the B Eng and BSc Eng programmes

If a student wishes to change study programme or field of study, and the student has passed 60 ECTS credits or more from a higher education programme, DTU has to assess if the student can change study programme or field of study. This also applies if the student wishes to change from a technical or natural science programme at another university to a programme at DTU.

If DTU assesses that the student can change study programme or field of study, the student will be enrolled in the second year of study or later, bypassing quotas 1 and 2.

If the student cannot change study programme or field of study, it will be assessed whether the student can be admitted to the study programme via the ordinary admission system (quotas 1 and 2). Application deadlines are found at DTU.dk under ‘Admission to BSc and BEng programmes’.

What is a change of field of study
A change of field of study means that a student changes field of study within the same study programme, i.e. from one BEng field of study to another BEng field of study or from a BSc field of study to another BSc field of study.

What is a change of study programme

- Internal change of study programme at DTU from a BSc programme to a BEng programme or vice versa
- External change of study programme from a study programme at another university to a BSc programme or a BEng programme at DTU
- A change of study programme where the applicant has passed 60 ECTS credits on the basis of courses passed both at DTU and at another university

Regardless of whether the student wants to apply for a change of study programme or field of study, they must follow the same procedure and comply with the same deadlines.

Application and application deadlines for change of study programme and field of study

Study start on 1 September
Please note that applicants who have passed 60 ECTS credits or more from a technical or natural science higher education programme must apply for a change of study programme or field of study no later than 1 May. If this deadline is not met, the applicant will neither be entitled to change field of study nor to be assessed in quotas 1 and 2.

If the applicant’s upper secondary exam only qualifies for quota 2, or if the applicant wishes to be assessed in quota 2, the deadline is 15 March at 12:00.

Applicants who apply for a change of study programme or field of study must comply with the same application deadlines as other applicants for DTU’s BSc and BEng programmes. Application deadlines are found at DTU.dk under ‘Application and admission / Deadlines and dates’ [HGM2]

Applications for change of study programme and field of study must be submitted via www.optagelse.dk. Applicants have a duty to state that they are already enrolled in a study programme at DTU.

Study start on 1 February
Please note that applicants who have passed 60 ECTS credits or more from a technical or natural science higher education programme must apply for a change of study programme or field of study no later than 1 November. If this deadline is not met, the applicant will neither be entitled to change study programme or field of study nor to be assessed in quotas 1 and 2.

If the applicant’s upper secondary exam only qualifies for quota 2, or if the applicant wishes to be assessed in quota 2, the deadline is 15 October.

Applicants who apply for a change of study programme or field of study must comply with the same application deadlines as other applicants for DTU’s BSc and BEng programmes. Application deadlines are found at DTU.dk under ‘Application and admission / Deadlines and dates’.

A change of study programme or field of study is applied for via an application form, which is available during the application period at DTU’s website under ‘Special information about winter admissions’. Applicants have a duty to state that they are already enrolled on a study programme at DTU.

**Processing of the application**

For an applicant to change field of study the following requirements must be met:

- The applicant must meet the applicable admission requirements for the desired study programme.
- The applicant must not have completed a higher education programme at the same or higher level within the past six years (see the Danish Act on Barring of Second Degrees (Lov om begrænsning af dobbeltuddannelse)).
- The applicant must have passed courses corresponding to the first year of study of the desired study programme by the application deadline (1 May/1 November).
  - **On a BEng programme**, the first year of study has been passed if, as a minimum, the first and second semesters of the study programme in question have been passed.
  - **On a BSc programme**, the first year of study has been passed if, as a minimum, 60 ECTS credits from the three mandatory blocks of courses (basic natural science courses, technological specialization courses, and projects and professional skills courses) have been passed.
- There must be vacant places at the level of study applied for and on the desired study programme. If the number of students applying for a change of field of study exceeds the number of vacant student places, study places will be distributed in a decreasing order of grade point average from the qualifying high school exam.

The 60 ECTS credits - equivalent to the first year of study on the desired study programme - will be transferred to the new study programme upon admission. In addition, DTU’s rules on pre-commencement credit transfer apply.

Please note that the assessment only includes courses which have been passed by the application deadline (1 May/1 November).

As a general rule, courses/programme elements which have been passed more than five years prior to the admission to DTU are not included in the assessment of a change of field of study. However, in special cases the relevant Head of Studies may grant an exemption from this rule on the basis of a specific academic assessment. Whether an exemption may be granted is assessed by the Head of Studies in connection with the general processing of the application for a change of field of study.
Courses that have exceeded the five-year limitation period will only be included in the assessment of a change of study programme or field of study if the student so wishes.

**Consequences of changes of study programme and field of study for BEng and BSc students**

**Deadlines for change of study programme and field of study**

- The first-year exam has been passed when the student has passed 30 ECTS credits corresponding to the first year of study in the new field of study/on the new study programme.
- The study activity requirement is 45 ECTS credits per year of study. The year of study is calculated from the date of the change of field of study/study programme. The number of transferred ECTS credits will not be deducted from the study activity requirement.
- The maximum period of study is the prescribed period of study + one year from study start in the new field of study/on the new study programme; however, reduced by one semester for every 30 ECTS credits transferred for the student to the new field of study/study programme.

*Note that special deadlines and exam attempts apply to students who have passed ECTS credits which are not equivalent to the first year of study*

As this is a new ordinary admission (quotas 1 and 2), DTU’s rules on pre-commencement credit transfer apply.

*Note that special deadlines apply to students who have changed field of study before 2017*

For students who have changed field of study before the winter admission 2017, the original admission date will apply to the calculation of deadlines for the study programme—for example regarding the maximum period of study, unless this puts them at a disadvantage compared to students who have changed their field of study at a later time. In that case, the general rules for change of study programme and field of study apply.

**Courses and exam attempts**

Exam attempts on failed courses in the previous field of study will only be transferred if such courses are mandatory in the new field of study or overlap with a course in the new field of study. Failed electives which can only be transferred as electives will not be transferred unless the student wishes to take these courses as part of the new field of study.

If students are admitted through a change of study programme/field of study, they will be granted a new exam attempt on the failed courses on which all attempts have been used.

Students who change study programme/field of study must also themselves register for the courses they wish to take on the new study programme/in the new field of study.

**Change of study programme and field of study on MSc Eng programmes**

If a student wishes to change study programme or field of study at DTU or to switch from a study programme at another university to a study programme at DTU, DTU has to assess if the student can change study programme or field of study.

If the student cannot change study programme or field of study, it will be assessed whether the student can be admitted to the study programme.

**Change of field of study on MSc programmes**
A change of field of study means that a student changes field of study within the same study programme, i.e. from one MSc programme to another MSc programme.

**Application and application deadlines**

Students who want to change field of study on an MSc programme at DTU must apply for admission to the new field of study in accordance with the applicable deadlines for admission. Students must meet all admission requirements for the new MSc field of study before the semester starts.

The rules for admission to DTU’s MSc programmes are described on [DTU’s website](https://www.dtu.dk/en). A change of field of study with study start on 1 September

Applicants who apply for a change of field of study must comply with the same application deadlines as other applicants for DTU’s MSc programmes. Application deadlines are found at [DTU.dk under ‘Admission to MSc programmes’](https://www.dtu.dk/en).

Applications for a change of field of study must be submitted via [www.dans.stads.dk](https://www.dans.stads.dk). Applicants have a duty to state that they are already enrolled in a study programme at DTU.

A change of field of study with study start on 1 February

Applicants who apply for a change of field of study must comply with the same application deadlines as other applicants for DTU’s MSc programmes. Application deadlines are found at [DTU.dk under ‘Admission to MSc programmes’](https://www.dtu.dk/en).

Applications for a change of field of study must be submitted via [www.dans.stads.dk](https://www.dans.stads.dk). Applicants have a duty to state that they are already enrolled in a study programme at DTU.

**Processing of the application**

For an applicant to change field of study the following requirements must be met:

- The applicant must meet the applicable admission requirements for the desired study programme
- The applicant must not have completed a higher education programme at the same or higher level within the past six years (see [the Danish Act on Barring of Second Degrees (Lov om begrænsning af dobbeltuddannelse)](https://www.danske-lovgivning.dk/lov/1995-05-30/lov-om-begrænsning-af-dobbeltuddannelse))

**Change of study programme on MSc programmes**

A change of study programme includes the following types:

- External change of study programme from a study programme at another university to an MSc programme at DTU

In connection with a change of study programme from another university to DTU, the applicant must comply with the same deadlines as other applicants for MSc programmes at DTU. Application deadlines are found at [DTU.dk under ‘Admission to MSc programmes’](https://www.dtu.dk/en).

**Consequences of a change of field of study and study programme for MSc students**

**Deadlines for change of field of study and study programme on MSc programmes**

- The study activity requirement is 30 ECTS credits in the first year of study and 45 ECTS credits in each of the following years of study. The year of study is calculated from the date of
the change of field of study. The number of transferred ECTS credits will not be deducted from the study activity requirement.

- The maximum period of study is the prescribed period of study + one year from study start on the new field of study/study programme; however, reduced by one semester for every 30 ECTS credits transferred for the student to the new field of study.

Courses and exam attempts
Exam attempts on failed courses on the previous field of study will be transferred to the student’s new field of study if these exam attempts are on courses which are mandatory on the new field of study or overlap with a course in the new field of study.
Failed electives which can only be transferred as electives will not be transferred unless the student wishes to take these courses as part of the new field of study. If the student wishes to include previously failed courses on the new MSc field of study, the number of used exam attempts for the course will be transferred to the student’s new MSc field of study.

Students who have used all their exam attempts on one or more courses that are included in the new field of study must apply for an exemption for additional exam attempts. Such an exemption can only be applied for after the change of field of study. The students are themselves responsible for checking whether they need to apply for an exemption.
DTU does not provide information to students who change field of study on their MSc programme about whether they need to apply for an exemption for exhausted exam attempts.

Students who change field of study must also themselves register for the courses they wish to take in the new field of study.

Head of study

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