

DTU – TUM 1:1 MSc programs

1. General Information

Duration and workload

Each MSc program:

- is a two-years MSc program, consisting of four semesters
- represents a workload equivalent to 120 ECTS credit points
- the students spend one year at each university

Degree obtained and diploma

The graduates are entitled *Master of Science in Environmental Engineering*. The graduates obtain a diploma from either TUM or DTU depending their university of enrolment.

Master thesis

The students complete a master thesis of at least 30 ECTS credit points. The thesis work is supervised by two researchers one from each university. The presentation of the thesis will be evaluated by both supervisors. For the presentation the following possibilities are possible:

- Presentation at the university in which the thesis was elaborated with the presence of both supervisors
- Presentation at the university in which the thesis was elaborated with the remote supervisor attending via videoconference
- Two separate presentations at both universities

Individual study plan

Based on a recommended study track each student admitted to the 1:1 MSc program work out an individual study plan together with the responsible supervisors at the partner universities. The final study plan has to be approved by the respective DTU-TUM 1:1 Program Committee.

Who can apply?

- Selected students from TUM and DTU
- Selected national and international students

Admission criteria

Either of the following:

- a relevant above-average Bachelor of Science in Engineering degree obtained at TUM or DTU
- a relevant above-average Bachelor of Science in Engineering degree obtained at a Danish, German or an internationally recognized foreign university
- a relevant excellent Bachelor in engineering degree obtained at a German Fachhochschule
- a degree obtained from a foreign institution of higher education which is equivalent to any of those specified above

Enrolment

- The students are enrolled either at TUM or DTU.
- When staying at the partner university the students have status as exchange students through a specified bilateral agreement

Tuition fee

Tuition fees have to be paid according to the existing regulations at the university of enrolment.

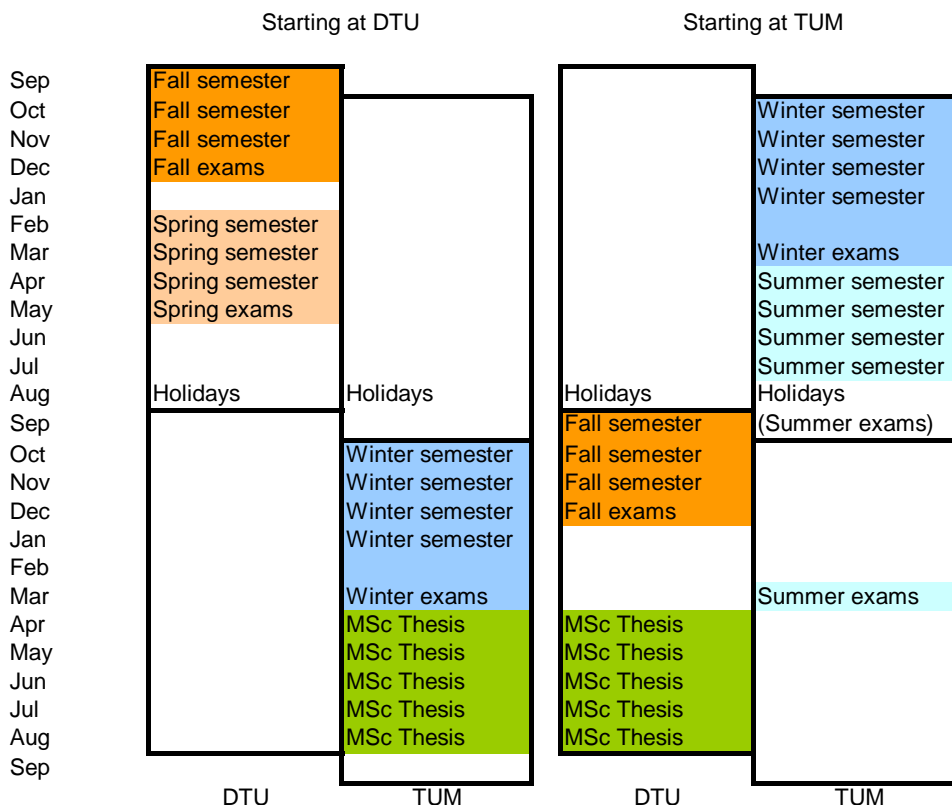
Application procedure for students enrolling at TUM

For a start at DTU in the winter semester students must apply one year in advance. The application procedure includes the following steps:

1. Interested students must appear personally in the student service centre (room 1701) and have a consultation with the Environmental Engineering Programme Coordinator (Dr. Tsakarestos). The consultation can be carried out via telephone if the applicant is abroad.
2. The application for the programme consists of a study plan for both master's years and a letter of motivation for the participation in the 1:1 programme. The documents must be submitted electronically or handed in as hard copy to the Environmental Engineering Programme Coordinator (Dr. Tsakarestos). **Deadline: November 15th**.
3. For admitted students it is recommended to submit an application as **Erasmus exchange** students to the International Exchange Coordinator (Ms. Klomke). **Deadline: January 15th**.

2. Semester plan of the programme

Students can start the program at either TUM or DTU. Depending on the start university two separate overall study plans are proposed:



3. Requirements on the Study Plan

First year at DTU

Students starting at DTU must

- Take 20 ECTS among the General Competence Courses at DTU
- Take at least 35 ECTS among the Technology Specialization Courses at DTU
- Take up to 5 ECTS among the Elective Courses at DTU
- Complete a Study Project of 15 ECTS points and a Master Thesis of 30 ECTS points at TUM.
- Take 15 ECTS from the Elective Courses or Cross Cutting Courses at TUM (suggested 10 Cross Cutting, 5 Elective)

First year at TUM

Students starting at TUM must

- enrol to a specific field of study (1-4)
- take courses at TUM totalling 60 ECTS points
 - 24 ECTS in Required Electives from the chosen Field of Study
 - 12 ECTS in Electives from the chosen Field of Study
 - 12 ECTS in Electives from Crosscutting Methods, technologies and Fundamentals
 - 12 ECTS in Electives from the entire TUM (free elective credits)
- take 10 ECTS points among the General Competence Courses at DTU
- complete a Master Thesis of at least 30 ECTS points at DTU
- take Technical Specialisation Courses at DTU to bring the total number of ECTS points of the entire study up to at least 120 ECTS points
- the study project will not be carried out

Students of TUM who must shift their summer exams due to the early lecture-start at DTU can do so without penalty.

University	DTU	TUM
Year 1	General Competence Courses 20 ECTS	Courses from a chosen Field of Study Required Electives: ≥ 24 ECTS Electives: ≤ 12 ECTS
	Technological Specialisation Courses ≥ 35 ECTS	Free Elective Courses from the entire TUM 12 ECTS
	Elective Courses ≤ 5 ECTS	Elective Courses Crosscutting Methods, Technologies and Fundamentals 12 ECTS
University	TUM	DTU
Year 2	Elective or Crosscutting Courses 15 ECTS	General Competence Courses ≥ 10 ECTS
	Study Project 15 ECTS	Master's Thesis 30 ECTS
	Master's Thesis 30 ECTS	Technical Specialisation Courses ≤ 20 ECTS
Total	120 ECTS	120 ECTS

Note: The final study plan for the 1:1 program will be an individual study plan worked out by the student and the supervisors at DTU and TUM

4. Coordination and Committee

MSc in Environmental Engineering

Program coordinator	Associate Professor Philip Binning (DTU)
Program Committee members	Professor Gerhard Müller (TUM) Professor Peter Kjeldsen (DTU)
Coordinator for the application of TUM students:	Dr. Antonios Tsakarestos (TUM)