

MSc in Computer Science and Engineering – Program Outline

The infrastructure of modern society is based on information technology. IT forms an integral part of our everyday lives and today no enterprise is possible without computers and communication equipment.

Computer Science and Engineering considers the design and use of computing components, software or hardware, to solve technical problems in an efficient and competitive way. The focus is on understanding and making the right choice of abstractions thus making it possible to implement IT solutions from existing and future components.

As a professional designer you will model, analyze, design, implement, and validate complex IT systems, based on theoretically and technologically well-founded methods, tools and techniques. The MSc in Computer Science and Engineering program will educate you to become a highly qualified engineer capable of developing complex IT systems consisting of hardware and/or software, using these methods, tools and techniques.

DTU has a strong and growing IT environment with competences in areas of great importance for the value-growth and productivity of industry, academia and society. This covers areas such as safe and secure systems, system integration, distributed and embedded systems, networks, software engineering, algorithms and logic, system-on-chip and digital systems. As a student in Computer Science and Engineering you will take part in this active IT environment.

ECTS

The anticipated workload entailed by a course of study is measured in ECTS (European Credit Transfer System). One year of full-time studies is worth 60 ECTS points and 1 ECTS point equals approximately 28 hours and includes time spend on preparations and exams.

The Flag Model

The MSc in Computer Science and Engineering program is a 2-year program (120 ECTS).

The program is structured such that the students can start in the autumn as well as in the spring (international students normally start in the autumn).

The program provisions are formulated with respect to DTU's "Flag Model" for MSc programs:

General Competences 30 ECTS	Thesis 30 ECTS
Technological Specialization 30 ECTS	Electives 30 ECTS

The study handbook describes the program structure in further details.