



Requirements for attendance

Aug. 4th to Aug. 22nd 2026
Odense - Denmark

Application deadline:

March 15th, 2026 (12:00 noon CET)

Requirements must be met at the time of participation, not at the time of registration.

The formal requirements for attendance are:

- At least 4 years (equivalent to 240 ECTS) passed on a university education within robotics or nearby scientific fields and current enrollment in a master's degree or graduate program (PhD)
- Proficiency in English

→ You can find the formal course description [here](#)

By the time of participation, students are expected to have sufficient knowledge about the following academic concepts to work proficiently during the course.

Mathematics for Robotics and Computer Vision:

- Homogeneous coordinates and transformation matrices
- Distance metrics in N-dimensional vector spaces
- Covariance matrices for distributions
- Singular Value Decomposition
- Linear and Cubic Interpolation
- Optimization using iterative numerical methods
- Some knowledge of Neural Networks and how they are trained

Kinematics for Robotic Manipulators:

- Cartesian Space and Configuration Space for manipulators
- Direct/Forward kinematics for Manipulators
- Manipulator Jacobians

Image Representations and Processing:

- An image described as an intensity function $f(x,y)$.
- Tesselation by pixels
- 2D Convolution
- 3D Point Clouds with or without colours and surface normals

Modeling and Control of Robots:

- Basic understanding of dynamical systems described by ODEs
- Feedback control
- Stability Analysis for Dynamical Systems (linear case)

Programming:

- General programming capabilities in Python, C++ or Matlab
- Knowledge of how to turn a mathematical description into a program