

COURSE DETAIL

ROBOTIC EXPERIMENTS

Country

Denmark

Host Institution

University of Copenhagen

Program(s)

University of Copenhagen

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

137

UCEAP Course Suffix**UCEAP Official Title**

ROBOTIC EXPERIMENTS

UCEAP Transcript Title

ROBOTIC EXPERIMENTS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces students to fundamental techniques for mobile autonomous robotics. In this course, a robot is a computer mounted on a chassis with controllable wheels. To allow the robot to perceive its surroundings, a camera and several distance sensors are attached to the computer. This course is oriented towards the practical aspects of mobile robotics and students in groups solve a set of assignments on the robots. Furthermore, the course introduces relevant robotics theory and methods including control, navigation, and localization of the robot as well as problem solving with robots including hardware/software trouble shooting. Some methods for analyzing sensor data are also covered. The course finishes with a larger assignment.

Language(s) of Instruction

English

Host Institution Course Number

NDAB24001U

Host Institution Course Title

ROBOTIC EXPERIMENTS

Host Institution Course Details

<https://kurser.ku.dk/course/ndab24001u/2025-2026>

Host Institution Campus

Host Institution Faculty

Science

Host Institution Degree

Bachelor

Host Institution Department

Computer Science

Course Last Reviewed

2025-2026

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