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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