

## COURSE DETAIL

### INTELLIGENT AUTONOMOUS SYSTEMS

**Country**

Sweden

**Host Institution**

Lund University

**Program(s)**

Lund University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mechanical Engineering Computer Science

**UCEAP Course Number**

167

**UCEAP Course Suffix****UCEAP Official Title**

INTELLIGENT AUTONOMOUS SYSTEMS

**UCEAP Transcript Title**

INTEL AUTO SYSTEMS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course gives an introduction to several subdomains of intelligent autonomous systems and robotics, and an orientation about fundamental methods and algorithms within these domains. Content covered includes three-layer architecture, Perception-Action Cycle, Robotic architectures, world models, Robot Perception, SLAM, reasoning under uncertainty, MAP-Slam, actuation, picking, placing, and reasoning and planning.

## Language(s) of Instruction

English

## Host Institution Course Number

EDAP20

## Host Institution Course Title

INTELLIGENT AUTONOMOUS SYSTEMS

## Host Institution Course Details

<https://kurser.lth.se/lot/course/EDAP20>

## Host Institution Campus

Lund

## Host Institution Faculty

Engineering

## Host Institution Degree

## Host Institution Department

## Course Last Reviewed

2023-2024

[Print](#)