# COURSE DETAIL

| INTELLIGENT AUTONOMOUS SYSTEMS |
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| **Country**<br>Sweden |
| **Host Institution**<br>Lund University |
| **Program(s)**<br>Lund University |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Mechanical Engineering Computer Science |
| **UCEAP Course Number**<br>167 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>INTELLIGENT AUTONOMOUS SYSTEMS |
| **UCEAP Transcript Title**<br>INTEL AUTO SYSTEMS |
| **UCEAP Quarter Units**<br>6.00 |
| **UCEAP Semester Units**<br>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

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