

COURSE DETAIL

MOBILE ROBOTICS

Country

Singapore

Host Institution

Singapore University of Technology and Design

Program(s)

Singapore University of Technology and Design

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

140

UCEAP Course Suffix**UCEAP Official Title**

MOBILE ROBOTICS

UCEAP Transcript Title

MOBILE ROBOTICS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This introductory course on intelligent robots and systems is at the intersection of machine learning, artificial intelligence, computer vision and control theory. Students learn the fundamentals of developing systems which can sense, plan and act in the world based on various topics from the domains. Emphasis is on algorithm design, probabilistic reasoning, decision making under uncertainty and learning to improve behaviors using data. The course requires students to take prerequisites.

Language(s) of Instruction

English

Host Institution Course Number

50.047

Host Institution Course Title

MOBILE ROBOTICS

Host Institution Course Details

<https://www.sutd.edu.sg/course/50-047-mobile-robotics/>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Information Systems and Technology Design

Course Last Reviewed

2025-2026

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