

COURSE DETAIL

SPACE APPLICATIONS OF ROBOTICS

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Carlos III University of Madrid

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Engineering

UCEAP Course Number

123

UCEAP Course Suffix**UCEAP Official Title**

SPACE APPLICATIONS OF ROBOTICS

UCEAP Transcript Title

SPACE APPS/ROBOTICS

UCEAP Quarter Units

2.50

UCEAP Semester Units

1.70

Course Description

This course offers insight into space, both the physical and developmental sides. It discusses robot needs in space and the historical and technological evolution of space robotics. This course examines teleoperation versus autonomy, as well as teleoperation systems and technology. After covering the main applications of robots in space (rovers, manipulators), it covers two practical examples: 1) an autonomous control application and 2) a teleoperated control application. Finally, this course looks at future applications of space robotics.

Language(s) of Instruction

English

Host Institution Course Number

19130

Host Institution Course Title

APLICACIONES AEROESPACIALES DE LA ROBÓTICA

Host Institution Course Details

<https://aplicaciones.uc3m.es/cpa/generaFicha?est=381&anio=2025&plan=478&asig=19...>

Host Institution Campus

LEGANÉS

Host Institution Faculty

Escuela Politécnica Superior

Host Institution Degree

Grado en Ingeniería Robótica

Host Institution Department

Departamento de Ingeniería Aeroespacial

Course Last Reviewed

2025-2026

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