

# COURSE DETAIL

## ROBOTICS AND BIOMEDICAL SYSTEMS CONTROL

**Country**

Spain

**Host Institution**

University of Barcelona

**Program(s)**

University of Barcelona

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Electrical Engineering Computer Science Bioengineering

**UCEAP Course Number**

170

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

ROBOTICS AND BIOMEDICAL SYSTEMS CONTROL

**UCEAP Transcript Title**

ROBOTICS&BIOMED SYS

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course provides an introduction to medical robotics and its applications. It covers recent developments in robotics for medical applications, position and orientation (POSE) of a robotic system, the kinematics of arm-type and vehicle-type robots, the trajectory of an arm-type robot end effector, and the different biomedical system controls.

## Language(s) of Instruction

English

## Host Institution Course Number

363758

## Host Institution Course Title

ROBOTICS AND BIOMEDICAL SYSTEMS CONTROL

## Host Institution Campus

Campus Universitat

## Host Institution Faculty

Facultat de Matemàtiques i Informàtica

## Host Institution Degree

Enginyeria electrònica

## Host Institution Department

Departament d'Enginyeria Electrònica i Biomèdica

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