COURSE DETAIL

EMBEDDED SYSTEMS ON MICROCONTROLLERS

Country
France

Host Institution
University of Bordeaux

Program(s)
University of Bordeaux

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Electrical Engineering Computer Science

UCEAP Course Number
107

UCEAP Course Suffix

UCEAP Official Title
EMBEDDED SYSTEMS ON MICROCONTROLLERS

UCEAP Transcript Title
MICROCONTROLLERS

UCEAP Quarter Units
8.00

UCEAP Semester Units
5.30

Course Description

This course introduces the fundamental principles of microcontroller systems and their peripherals. It combines theoretical foundations with practical training in the design and implementation of application software using the C programming language. Emphasis is placed on developing control-oriented applications and understanding the interaction between microcontrollers and their peripheral modules. The course builds skills to design, program, and manage microcontroller-based applications, and apply knowledge across a range of typical use cases. The course concludes with two integrative mini-projects that serve as capstone exercises, synthesizing the concepts acquired and demonstrating abilities to implement effective microcontroller solutions.

Language(s) of Instruction
French

Host Institution Course Number
4TEA503U

Host Institution Course Title
INFORMATIQUE EMBARQUÉE SUR MICROCONTRÔLEUR

Host Institution Course Details
https://formations.u-bordeaux.fr/details-formation?type=enseignement&id=30352

Host Institution Campus
Universite de Bordeaux

Host Institution Faculty
Unité de formation des sciences de l'ingénieur

Host Institution Degree

Host Institution Department
Engineering

Course Last Reviewed

2025-2026