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

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