COURSE DETAIL

ELECTRONIC FUNCTIONS
Country France
Host Institution University of Bordeaux
Program(s) University of Bordeaux
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Electrical Engineering
UCEAP Course Number 105
UCEAP Course Suffix
UCEAP Official Title ELECTRONIC FUNCTIONS
UCEAP Transcript Title ELECTRONC FUNCTIONS
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course provides a comprehensive introduction to the fundamental functions of analog, digital, and mixed-signal electronics. It emphasizes the modular design of electronic systems and the role of basic functional blocks in modern applications. Topics include digital functions such as counters, registers, and multiplexers; analog functions such as integration, addition, subtraction, and modulation; and mixed functions including multiplexing, analog-to-digital conversion, and digital-to-analog conversion. It also studies functional and timing diagrams, as well as spectral concepts such as sampling and frequency multiplexing. Practical applications are explored in the context of measurement systems and sound transmission technologies, with a particular focus on telecommunications and mobile devices.

Language(s) of Instruction
French

Host Institution Course Number
4TSI307U

Host Institution Course Title
FONCTIONS ELECTRONIQUES

Host Institution Course Details
https://formations.u-bordeaux.fr/details-formation?type=enseignement&id=73906

Host Institution Campus
Université de Bordeaux

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

Host Institution Degree

Host Institution Department
Engineering

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