

Industrial applications

COMPUTER ENGINEERING - Multi Tasks and Real Time

IDENTIFICATION

CODE : GE-5-S1-EC-IF4
ECTS : 2.0

HOURS

Lectures : 14.0 h
Seminars : 18.0 h
Laboratory : 12.0 h
Project : 0.0 h
Teacher-student
contact : 44.0 h
Personal work : 2.0 h
Total : 46.0 h

ASSESSMENT METHOD

1 x 2h

TEACHING AIDS

lecture notes

TEACHING LANGUAGE

French

CONTACT

M. LELEVE Arnaud
arnaud.leleve@insa-lyon.fr
Phone : 0472438780

AIMS

Understand the functioning of multitask embarked systems.
Multitask programming.
Model and design real-time applications.

CONTENT

Multitask programming [POSIX] : organization, multitask management, communications between tasks, events and ressource management. Analyzing the real time programming, through an industrial application

BIBLIOGRAPHY

J. M. RIFFLET - La programmation sous UNIX EDISCIENCE [1998]
J. P. PEREZ - Systèmes temps réel - DUNOD [1990]
C. BONNET, I. DEMEURE - Introduction aux systèmes temps réel. HERMES [1999]

PRE-REQUISITE

GE-3-IF1, GE4-IF3, bases of C programming.