FACULTY OF **ENGINEERING**

DEGREE COURSE: **COMPUTER AND CONTROL ENGINEERING**

MASTER DEGREE: **COMPUTER AND CONTROL ENGINEERING**

SUBJECT: DISTRIBUTED CONTROL SYSTEMS

LECTURER: VINCENZO SURACI

Email address: vincenzo.suraci@uniecampus.it

OBJECTIVES
1. Control of a distributed system
2. Task scheduling in a distributed system
2. Elements of a distributed system
3. SCADA system

CONTENTS
• Recalls of Automatic Control
• Recalls of Process Automation
• Real time control of a distributed system
• Task scheduling in a distributed system
• Embedded systems
• Programmable logic controller
• Sequential Functional Charts
• Petri nets
• Telecommunication networks
• SCADA systems

LEARNING OUTCOMES
Understanding the theoretical solutions and the available technologies to control distributed systems.

ASSESSMENT
Written exam: multiple-choice tests and open-ended questions

RECOMMENDED TEXTBOOKS
Even if the provided material is sufficient for a complete comprehension of the course, the following reading is suggested:
• "Modern Control Systems", 12° Edition, Dorf R. C. and Bishop R. H.,
• Supervisory Control and Data Acquisition, 4° Edition, Stuart A. Boyer