

FACULTY OF **ENGINEERING**

DEGREE COURSE: **COMPUTER AND CONTROL ENGINEERING
BS**

SUBJECT: INDUSTRIAL AUTOMATION

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OBJECTIVES

The course is aimed at providing students with knowledge of:

- 1) industrial automation control system architectures
- 2) technologies, modelling and programming languages.

CONTENTS

- Examples of Industrial Automation
- Analysis of the Industrial Automation problematic
- Hierarchical structure of an Industrial Automation system
- PID controller
- Logic circuits and programmable logic controller
- Sequential Functional Charts
- Petri Nets

LEARNING OUTCOMES

At the end of the course, students will be able to:

- understand, analyze and control complex industrial automation processes, components and technologies.

ASSESSMENT

Written exam: multiple choice and open questions

RECOMMENDED TEXTBOOKS

The teaching is self-contained. Studying the provided slides is sufficient to pass successfully the oral exam. The exams consists of an oral interrogation.
