

FACULTY OF **ENGINEERING**

DEGREE COURSE: **INDUSTRIAL ENGINEERING**

MASTER DEGREE: **INDUSTRIAL ENGINEERING / ENERGY**

SUBJECT: INDUSTRIAL SYSTEMS DESIGN

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OBJECTIVES

The course objective is to provide students with the analytical and methodological tools to solve problems of industrial systems design and process services design.

CONTENTS

The course aims to provide and implement models and analytical methods for the choice, design and optimization of industrial plants and service facilities for process plant. Specifically: compressed air systems; Superheated water systems; refrigeration systems; concentration plants; plants drying; installations for production of electricity and thermal installations including biomass; pipeline transport of gas-liquid two-phase mixtures, liquid-solid, gas-solid; systems advanced dust suppression; system example of the production process relating to the paper industry

ASSESSMENT

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

RECOMMENDED TEXTBOOKS

Standards: ISO 14000; ISO 9000; ISO 50001
