

FACULTY OF **ENGINEERING**

DEGREE COURSE: **INDUSTRIAL ENGINEERING BS**

SUBJECT: PHYSICS

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OBJECTIVES

The course is aimed at providing students with a solid background about methods and laws of the classical physics.

CONTENTS

Laws of motion, forces, work and energy, rigid body mechanics, fluid mechanics, thermodynamics, electrical charge and field, electric circuits, magnetic field, electromagnetic waves, optics.

LEARNING OUTCOMES

At the end of the course students:

- will have a sound knowledge of the basic methods and concepts of classical mechanics, thermodynamics and electromagnetism
- will be able address the different problems proposed and solve them.

ASSESSMENT

Written exam: multiple choice and open questions

RECOMMENDED TEXTBOOKS

Halliday, Resnick, Walker, *Principles of Physics, International Student Version*, Wiley
