

FACULTY OF **ENGINEERING**

DEGREE COURSE: **CIVIL AND ENVIRONMENTAL
ENGINEERING BS**

SUBJECT: PHYSICS

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OBJECTIVES

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

CONTENTS

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

LEARNING OUTCOMES

- A sound knowledge of the basic methods and concepts of classical mechanics, thermodynamics and electromagnetism.
- They will be able to assess and solve various problems and exercises given to them.

ASSESSMENT

Written exam: multiple choice and open questions

RECOMMENDED TEXTBOOKS

Suggested reading:

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