FACULTY OF **ENGINEERING**

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

SUBJECT: PHYSICS

LECTURER: LUCA TERENZI

E-mail: luca.terenzi@uniecampus.it

OBJECTIVES

The course is aimed at providing students with a solid background about the 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

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

ASSESSMENT

Written exam: multiple choice and open questions

RECOMMENDED TEXTBOOKS

Students are suggested to use the following textbook to support their studies:
- Halliday, Resnick, Walker, *Principles of Physics, International Student Version*, Wiley