



FISICA GENERALE

FIS/02 - 8 CFU - 1° Semester

Teaching Staff

ALESSANDRO PLUCHINO

Email: alessandro.pluchino@ct.infn.it

Office: Dipartimento di Fisica e Astronomia, via S.Sofia 64 - 95123, Catania

Phone: +39 095 3785423

Office Hours: Lunedì 9-11

LEARNING OBJECTIVES

Understanding the mechanisms of the scientific method and the main physical laws of mechanics, thermodynamics and electromagnetism. Ability to perform simple exercises on the topics of the program.

COURSE STRUCTURE

Frontal lectures - Audiovisual material

DETAILED COURSE CONTENT

Fundamental physical quantities and units. Kinematics in one and two dimensions. Laws of Dynamics. Gravitation. Conservation of energy and momentum. Friction forces. Harmonic oscillator. Statics and dynamics of fluids. Calorimetry and Thermodynamics. Electrostatics and electrodynamics. Magnetism and electromagnetism.

TEXTBOOK INFORMATION

- 1) D.C.Giancoli, "Fisica", Ed.Ambrosiana, Milano
 - 2) D.Halliday, R.Resnick, J.Walker, "Fondamenti di Fisica" (sesta ed.), Ed.Ambrosiana, Milano
 - 3) P.J.Nolan, "Fondamenti di Fisica", Ed.Zanichelli, Bologna
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