



UNIVERSITÀ
degli STUDI
di CATANIA

DEPARTMENT OF ELECTRICAL, ELECTRONIC AND
COMPUTER ENGINEERING
Bachelor's Degree in Industrial Engineering
Academic Year 2016/2017 - 1° Year

PHYSICS I P - Z

FIS/01 - 9 CFU - 2° Semester

Teaching Staff

GIULIO MANICO'

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Office Hours: Lunedì dalle ore 15:00 alle 17:00 e Martedì dalle ore 15:00 alle 17:00. E' gradita una email di prenotazione al fine di ottimizzare il servizio per gli studenti.

LEARNING OBJECTIVES

The course aims to introduce the physical investigation methods and provide the fundamentals of mechanics, of both the material point and the extended bodies, and thermodynamics.

DETAILED COURSE CONTENT

MECHANICS

Physics and measurement. Vectors. Kinematics. Dynamics. Applications of the principles of dynamics. Work and Energy. Oscillations. System Dynamics. Rigid bodies.

TERMODYNAMICS

Thermodynamic systems. First law of thermodynamics. Second law of thermodynamics.

TEXTBOOK INFORMATION

Young, Freedman - University Physics. 13th Edition. (Pearson)
