

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Physics III

2122-2-E3001Q043

Aims

Illustrations of phenomena that show the inadequacy of classical physics theories for their description and formulation of new models that introduce the students to the first concept leading to quantum physics.

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Detailed program

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Prerequisites
The contents of the maths and physics courses of the first three semesters of the Bachelor degree in Physics and Mathematics.
Teaching form
Lectures.
Textbook and teaching resource
Selected chapters in the following texts and lecturer's notes.
TIPLER "Modern Physics"
DADDOW #OLiving fisher
BARROW "Chimica fisica"
ENGE-WEHR-RICHARDS "Introduction to Atomic Physics"

DEKKER – "Solid State Physics"
SERWAY-MOSES-MOYER "Modern Physics"
RICHTMYER-KENNARD-COOPER "Modern Physics"
EISBERG-RESNICK "Quantum Physics"
ALONSO – FINN "III-Quantum and statistical physics"
Semester
II semester.
Assessment method
The assessment is reached through a written exam that last three hours, with open questions (4/5) in which the student is requested to expose a topic of the program with small derivations, graphs and, if needed some numerical

The student succeeded in a positive written exam (>=18/30) can perform an optional oral exam or keep the rating obtained in the written one.

estimates. The use of a scientific calculator is requested. Access to textbooks during the exam is strictly forbidden.

Those students that have been rated 16/30 and 17/30 in the written exam access the oral exam in order to obtain a final score >=18/30.

Office hours

The exam score is expressed in 30 points units.