Chim/02 fundamental didactic activity

Academic year: 2016-2017 Faculty: Department of Pharmacy and Drug Sciences Study courses: **CHIMICA FISICA** Study plans/Curricula:5-year Degree in Chemistry and Pharmaceutical Technology Type: fundamental didactic activity with integrated final examination Total Credits: 8 Didactic Methods: frontal lessons Didactic Period: Third Semester (October-January) Exam type: Written and oral examination Professor in charge: Catucci Lucia

Training objectives

Acquisition of the principles of thermodynamics, spettroscopy and kinetics

Prerequisites

knowledges of mathematics, physics and general chemistry

Course programme

PROGRAMME:

Lectures: (64 h)

- 1. Properties of gases
- 2. Thermodynamics
- 3. Properties of solutions
- 4. Phase equilibria
- 5. Dispersed systems: colloids and surfactants
- 6. Chemical kinetics
- 7. Hints of quantum mechanics
- 8. Atomic and Molecular Structure
- 9. Molecular spectroscopy

Reference Texts

P.W. Atkins, J.De Paula. "Elementi di Chimica Fisica" (terza edizione italiana), Zanichelli, Bologna

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