

Chim/02

Academic year: 2016/2017

Faculty: Department of Chemistry

Study courses: Chemical

Study plans/Curricula:

Type:

Total Credits: 6

Didactic Methods: lessons+laboratory

Didactic Period: I semester,

Exam type: Oral

Professor in charge: Pinalysa Cosma

Training objectives: The course completes and supports the theoretical course of Chemical Physics 1, developing and practically applying the fundamental concepts.

Prerequisites: Basic concepts of General Chemistry, Mathematics and Physics

Didactic Methods: Power point Presentations

Course programme

PROGRAMME:

Lectures: (32 h)

1. Fundamentals of Error Theory

2. Calorimetry

3. Clausius-Clapeyron Law and Enthalpy of Vaporization of Water

4. Colligative Properties

5. Electromotive force and Gibbs-Helmholtz Equation

6. Solution Conductivity

Practical applications (30h/student)

Reference Texts

P.W. Atkins-Chemical-Physics-Zanichelli (Bologna)

John R. Taylor-Introduction to the error analysis-Zanichelli (Bologna)