

Introduction to Materials Science. Part 2

Course Workload		Assessment form (examination/ graded test/ ungraded test)
ECTS	Hours	
6	216	Exam

Materials science is a course that studies the patterns that determine the structure and properties of materials depending on their composition and processing conditions. The purpose of the course is to give the basics of materials science, the principles of choosing structural materials, the technology of their production and processing; to instill skills of practical determination of physical an.

Course structure:

1. Diffraction

1.1. Diffraction

2. From Gibbs curves to Phase diagrams

2.1. Notion of stability, metastability and instability

3. Reading and interpreting phase diagrams

3.1. Reading and interpreting phase diagrams

4. Use the right tool for the right purpose

4.1. Electron microscopy

4.2. Diffraction techniques

4.3. Near-field techniques

5. Interpretations and artefacts

5.1. Interpretations and artefacts
