

Course Descriptions CiE

Course code:

Course title: Material Science/Quality Control

Hours per week: 2h/w

Number of ECTS Credits allocated: 2 cr.

Semester: from 1st semester

Course contents:

1. Properties and Structure
2. Examples: Strength materials (Fe, Al,Ti)
3. Examples: Conductors (Cu, Al, Nobel metals)
4. Material testing
5. New materials
6. Magnetic materials
7. Superconductors
8. Quality control

Prerequisites: Basic Knowledges

Objective of the course/learning outcome: How to explain and apply materials, quality aspects and tests

Recommended Reading: Material Sciences, Engineering handbook

Teaching methods: Seminar- style, lectures with experiments (built- in practicals), visit of laboratories

Assessment methods: Examination (certificate), written, 90 min. (grade assessment)

Language of instruction: English

Name of lecturer: Prof. Dr.- Ing. Wolfram Heller

Email: sekretariat@ee.hm.edu or heller@ee.hm.edu

Link: