

Lecture announcement WS 2015/16

MATERIALS PROCESSING

-FOR MSS-

Prof. Dr. Easo P. George

The lecture **Materials Processing (Module code: 2b N2)** is for students of MSS with a bachelor of physics, chemistry or related disciplines.

Learning outcomes

The students will learn about engineering materials and their key properties; processing of metals all the way from raw ores to finished goods and products, including mining and extraction of metals from ores, alloying to obtain specific properties, shaping and joining to obtain different forms, and finishing to obtain desired look; effects of different processing steps on the evolution of internal microstructure and external surfaces; relationships between microstructure and properties. As a result, students will understand which materials and processing steps to select for different applications keeping in mind cost constraints.

Subject aims

- Introduction to engineering metallic materials
- Basics of processing, microstructure and properties
- Important manufacturing, heat- and surface-treatment processes

Schedule

- Lectures on Tuesdays 08:00-13:00. First lecture on October 27th
- Room: ICAMS IC 02/722.

