

## **Superalloys, 7,5 HE credits**

*Superlegeringar, 7,5 hp*

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Established: 2016-11-21

Established by: Research and Research Programme Committee

Applies from: V17

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### **Learning outcomes**

The PhD student should after completion of the course show knowledge and understanding to:

- why knowledge about superalloys and its corresponding metallurgy is important
- properties and advantages with superalloys
- differences in between various types of superalloys
- primary manufacturing and fabrication of superalloys
- testing methods for mechanical properties and fabrication

The PhD student should after the course show the skill and ability in:

- suggest appropriate superalloy and explain the reason why in relation to load and temperature
- evaluate both mechanical and fabrication properties

The PhD student should after completion of the course:

- be able to explain and value differences and similarities for various superalloys
- be able to relate and explain selection of superalloys and evaluate its properties

### **Entry requirements**

Accepted for research school in manufacturing engineering or equivalent.

### **The forms of assessment of student performance**

Written examination, individually written reports of all laboratory experiments as well as a presentation and a report of a relevant subject covered in the course.

### **Other regulations**

Course grading: Failed or Passed

Course language: The teaching is conducted in English.

### **Cycle**

Third cycle