HÖGSKOLAN VÄST

COURSE SYLLABUS

Course code: **SLGF010**

Superalloys, 7,5 HE credits

Superlegeringar, 7,5 hp

Established: 2016-11-21
Established by: Research and Research Programme Committee
Applies from: V17

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