



The Faculty of Health, Science and Technology

Programme Syllabus for Doctoral Studies in Materials Engineering

Curriculum approval

The curriculum was approved by the Faculty Board of Health, Science and

Degree of Licentiate

Knowledge and understanding

*For a **Degree of Licentiate** the third-cycle student shall demonstrate knowledge and understanding in the field of research including current specialist knowledge in a limited area of this field as well as specialised knowledge of research methodology in general and the methods of the specific field of research in particular.*

Science in Engineering with a major in Mechanical Engineering or a Degree of Master (60 or 120 ECTS credits) in the main field of Mechanical Engineering or adjacent academic fields such as Materials Engineering/Materials Science, Physics, or Chemistry. An applicant who does not meet the specific entry requirement but has acquired equivalent knowledge in some other way may be deemed eligible following a special assessment.

4. Admission

Students can primarily choose courses from the range of courses that the university currently offers.

The optional courses are chosen in consultation with the supervisor and the examiner. The doctoral student's examiner decides whether a specific course can be included in the degree or not. This must be done, at the latest, when the requirements for a degree are to be approved, but it is recommended that the choice of courses is reviewed at the start of the studies in connection with the individual study plan. The individual study plan for each doctoral student includes which cross-faculty courses and which subject-specific courses the student i2 (ec)-55fy57 -1.1t i2 ()8 (nth)7.1 r tgk TD(i)jEMC /P 4MCID 0 BD4 -0.003 Tf2-0.004

Cycle Studies at Karlstad University. The topic of the licentiate or doctoral thesis is chosen in consultation with the supervisor and the examiner. As a general rule in Materials Engineering, students write a compilation thesis in English, with 4-6 scientific articles for a Degree of Doctor and 2-4 articles for a Degree of Licentiate.

6.3 Supervision

Doctoral students are entitled to a supervisor in accordance with the current admission regulations for third cycle education at Karlstad University.

6.4 Individual Study Plan

Each doctoral student must draw up an individual study plan in consultation with their supervisors at the start of their studies. The plan should include a realistic time plan for coursework, thesis work and supervision. The plan should also include an introduction to the proposed research field and relevant ethical considerations.