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General syllabus for doctoral (third-cycle) studies in Entrepreneurship and Innovation at Luleå University of Technology

Decided by the Chair of FFN 24 March 2020

1. Subject description

English name: Entrepreneurship and Innovation

Entrepreneurship and Innovation comprises organizational development with a specific focus on firm development based on innovative products, services, production solutions or management modes.

2. Programme aim and intended learning outcome

The aim of the doctoral (third-cycle) studies in Entrepreneurship and Innovation at the University is to give the doctoral student specialised knowledge in Entrepreneurship and Innovation, in-depth knowledge of different research methods and a good understanding of the challenges related to research and its practical application. The overall objective of the programme is that the doctoral student develops into a critical and autonomous researcher in Entrepreneurship and Innovation, able to plan and carry out research projects. The doctoral student shall fulfil all the qualitative targets specified in the Higher Education Ordinance as well as in the locally decided qualitative targets, if any (see attached Annex A).

3. Admission requirements and selection

3.1 General entry requirements

An applicant meets the general entry requirements for doctoral (third-cycle) studies if he or she has been awarded a Master's (second-cycle) qualification, has satisfied the requirements for courses comprising at least 240 credits, of which at least 60 second-cycle credits, or has acquired substantially equivalent knowledge in another way, in Sweden or elsewhere (Higher Education Ordinance (2010:1064) Chapter 7 Section 39).

3.2 Specific entry requirements

A person is qualified for admission to doctoral (third-cycle) studies in Entrepreneurship and Innovation if he or she meets the general entry requirements and has been awarded a Master of Science- or Master's (second-cycle) degree in either Business Administration, Industrial and Management Engineering, or an adjacent subject. An applicant also meets the specific entry requirements if he or she has acquired substantially equivalent knowledge in another way, in Sweden or elsewhere.

3.3 Selection

In selecting among applicants who meet the requirements, their ability to benefit from the course or the study programme shall be taken into account. However, the fact that an applicant may be credited for previous courses and study programmes or for professional or vocational experience may not alone give the applicant priority over other applicants (Higher Education Ordinance

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(2010:1064) Chapter 7 Section 41). The University's local guidelines in the Admissions procedure for doctoral (third-cycle) studies must also be applied.

The following criteria will be used in the selection of applicants for doctoral (third-cycle) studies in Entrepreneurship and Innovation.

- Good knowledge in verbal and written communication in English
- Relevant knowledge for the intended project
- Previous academic achievements
- Quality of the MSc- or Master's thesis
- Personal qualities that are relevant for doctoral (third-cycle) studies

4. The degree

The doctoral (third-cycle) studies lead to a Degree of Doctor. In Entrepreneurship and Innovation, a student admitted to doctoral studies has the right to be awarded a licentiate degree after having completed at least 120 credits of the programme leading to a Degree of Doctor.

4.1 Degree requirements

For a Degree of Doctor, the doctoral student shall

- have been awarded a pass grade for courses of at least 80 credits.
- have been awarded a pass grade for a research thesis (doctoral thesis) of at least 145 credits.

The thesis and the courses shall together amount to 240 credits for a Degree of Doctor.

For a Degree of Licentiate, the doctoral student shall

- have been awarded a pass grade for courses of at least 40 credits.
- have been awarded a pass grade for a licentiate thesis of at least at least 72.5 credits.

The thesis and the courses shall together amount to 120 credits for a Degree of Licentiate.

4.2 Titles of degree

- After the completion of the Degree of Doctor in Entrepreneurship and Innovation the doctoral student is awarded the title Doctor of Philosophy.
- After the completion of the Degree of Licentiate in Entrepreneurship and Innovation, the doctoral student is awarded the title Licentiate of Philosophy.

A request of a title of degree other than the stipulated may be submitted in accordance with laid down guidelines.

5. Programme structure and implementation

5.1 Programme scope and structure

The doctoral (third-cycle) programme includes two blocs; courses and thesis work. The programme comprises four years (two years for the licentiate degree). In case the doctoral student has a doctoral studentship and carries out departmental duties to a certain extent (no more than 20% of the whole programme), a corresponding prolonged period may be approved.

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5.2 Individual study plan and supervision

An individual study plan outlining the implementation of the studies is drawn up for each doctoral student. The plan is established in consultation with the supervisor and is decided by the Head of Department by delegation of the Vice-Chancellor. The plan is reviewed and revised at least once a year.

The Head of Department shall appoint at least two supervisors, one of whom is appointed principal supervisor, for each doctoral student. The person appointed principal supervisor shall have at least qualifications required for appointment as a docent and be employed by the University. A principal supervisor who no longer meets the job requirements may continue as supervisor until the doctoral student completes his or her studies, by an individual agreement with the relevant department. The doctoral student is entitled to supervision during the studies, unless the Vice-Chancellor has decided otherwise in accordance with the Higher Education Ordinance (2010:1064) Chapter 6 Section 30. A doctoral student who so requests may have another supervisor (Higher Education Ordinance (2010:1064) Chapter 6 Section 28). The request does not need a justification.

5.3 Courses

The individual study plan shall specify the courses to be included in the doctoral student's education. The goal attainment is examined according to the examination procedure specified in the course syllabus. Credits may be transferred in accordance with the local guidelines in the Admissions procedure for doctoral (third-cycle) studies.

The courses for the Degree of Licentiate comprise:

- At least 15 credits of courses in the research field
- At least 15 credits of courses in research methods, consisting of both quantitative and qualitative research methods
- Course in research ethics

The courses for the Degree of Doctor comprise:

- At least 30 credits of courses in the research field. These courses must partly provide in-depth knowledge in the student's own thesis area, and partly broaden the student's knowledge in the research field outside of the own thesis topic.
- At least 22,5 credits of courses in research methods, consisting of both quantitative and qualitative research methods
- Course in research ethics
- Course in academic publishing

For the Degree of Licentiate as well as for the Degree of Doctor, at least one of the courses must include knowledge in gender equality.

5.4 Thesis

The thesis may take the form of either a single coherent work (a monographic thesis) or a compilation comprising a number of scientific articles interrelated by an introductory summary chapter (a compilation thesis). Quality and scope requirements for the research activities do not differ between the two alternatives. The scientific articles or, as appropriate, the monograph must

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be of such quality that they meet reasonable requirements for publication in a peer-reviewed scientific forum.

In Entrepreneurship and Innovation the norm is a compilation thesis written in English. In exceptional cases, a monograph may be presented. A compilation thesis for the Degree of Licentiate must contain an introductory summary chapter, and scientific manuscripts (normally two). A compilation thesis for the Degree of Doctor must contain an introductory summary chapter, and scientific manuscripts (normally four).

Thesis manuscripts must be presented at one or several research seminars, or be subjected to equivalent review through the agency of the department. A doctoral student with the goal of achieving a Degree of Doctor should normally present his or her research at three internal seminars during the doctoral studies: planning seminar, mid-seminar, and final seminar.

The introductory summary chapter shall include a separate section describing the doctoral student's contribution to the articles.

The doctoral thesis shall be defended at a public defence seminar. The grades for the thesis are either 'pass' or 'failed'. When grading the thesis, the content and the defence of thesis shall be taken into account. The grade of a doctoral thesis is decided by an examining committee, appointed anew for each thesis.

A doctoral student wanting to be awarded a Degree of Licentiate shall, after consultation with his or her supervisor, request approval from the responsible Head of Department. The doctoral student defends his or her licentiate thesis at a licentiate seminar after which the thesis is graded 'pass' or 'failed'. When grading the thesis, the content and the defence of the thesis is taken into account. An examiner, appointed by the Head of Department, grades the licentiate thesis.

6. Entry into effect and interim regulations

The previous general syllabus will cease to apply for third-cycle students who are admitted to studies at third-cycle level after 2020-06-18.

If agreed between the third-cycle student and the supervisor, the new general syllabus (LTU-1977-2020) may be used as a steering document for a previously admitted third-cycle student. It must be documented in the third-cycle student's individual study plan which general syllabus that applies.