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

Decided by the Chair of the Board of the Faculty of Humanities and Social Sciences on 14 January 2021.

1. Subject description

English name: Economics

Economics concerns the study of how society can be organized to make efficient use of scarce resources. Research focuses on the economics of natural resources, energy and the environment. It applies microeconomic theories to study the behaviour of energy and raw materials markets as well as how these markets are influenced by public policy.

2. Programme aim and intended learning outcome

The aim of the doctoral (third-cycle) studies in economics at the University is to give the doctoral student specialised knowledge in economics, 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 economics, 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

In addition to the general entry requirements, a Degree of Master with Economics at advanced level as main subject/main area, or similar subject/area, is required for admission to doctoral (third-cycle) studies in Economics.

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 economics.

- Good skills in oral and written communication in English.
- Knowledge that is relevant for the project in question.
- The quality of the master's thesis.

4. The degree

The doctoral (third-cycle) studies lead to a Degree of Doctor. Within economics, 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 105 credits.
- have been awarded a pass grade for a research thesis (doctoral thesis) of at least 120 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 52.5 credits.
- have been awarded a pass grade for a licentiate thesis of at least at least 60 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 economics the doctoral student is awarded a Degree of Doctor of Philosophy.
- After the completion of the Degree of Licentiate in economics, the doctoral student is awarded the title Licentiate of Arts.

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.

Students are often given individual tuition in those courses that are specialised within the framework of the thesis subject while the more general courses in economics and those that have a more methodological and theoretical thrust are normally taught in groups and often in cooperation with other universities in Sweden and in other countries. At least 30 higher education credits for the licentiate degree and at least 60 higher education credits for the doctorate must be so-called core courses, i.e. courses in microeconomics, macroeconomics, mathematics and econometrics. Knowledge of equal opportunities must be ensured in the doctoral (third-cycle) studies, and may be acquired through coursework or in other ways.

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

In economics the norm is a compilation thesis written in English. In both the licentiate thesis and the doctoral thesis, the post-graduate student must have written at least one of the scientific articles alone. A compilation thesis for the Degree of Licentiate must contain an introductory

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summary chapter and scientific manuscripts, normally the equivalent of at least 1.5 single-authored articles. A compilation thesis for the Degree of Doctor must contain an introductory summary chapter and scientific manuscripts, normally the equivalent of at least 3 single-authored articles. A co-authored article is normally considered equivalent to half of a single-authored article.

The economics research program has an international advisory board, consisting of three professors of economics from institutions of higher education outside Sweden who review the post-graduate students' ongoing projects annually. As part of this review, the post-graduate student's draft thesis manuscripts are normally discussed in a seminar. Moreover, prior to the defence of the licentiate or doctoral thesis, thesis manuscripts shall be presented at one or more final research seminars or be subjected to equivalent review through the agency of the department.

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 2021-01-14.

If agreed between the third-cycle student and the supervisors, the new general syllabus (LTU-4742-2020) 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.

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ANNEX: QUALITATIVE TARGETS

Qualitative target in accordance with the Higher Education Ordinance (HF)

Degree of Doctor

Knowledge and understanding

For the Degree of Doctor, the doctoral student shall

- demonstrate broad knowledge and systematic understanding of the research domain as well as advanced and up-to-date specialised knowledge in a limited area of the research domain, and

- demonstrate familiarity with research methodology in general and the methods of the specific research domain in particular.

Competence and skills

For the Degree of Doctor, the doctoral student shall

- demonstrate the capacity for scholarly analysis and synthesis as well as to review and assess new and complex phenomena, issues and situations autonomously and critically

- demonstrate the ability to identify and formulate issues with scholarly precision critically, autonomously and creatively, and to plan and use appropriate methods to undertake research and other qualified tasks within predetermined time frames and to review and evaluate such work

- demonstrate through a dissertation the ability to make a significant contribution to the formation of knowledge through his or her own research

- demonstrate the ability in both national and international contexts to present and discuss research and research findings authoritatively in speech and writing and in dialogue with the academic community and society in general

- demonstrate the ability to identify the need for further knowledge, and
- demonstrate the capacity to contribute to social development and support the learning of others both through research and education and in some other qualified professional capacity.

Judgement and approach

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For the Degree of Doctor, the doctoral student shall

- demonstrate intellectual autonomy and disciplinary rectitude as well as the ability to make assessments of research ethics, and
- demonstrate specialised insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used.

Research thesis (doctoral thesis)

For the Degree of Doctor, the doctoral student shall have been awarded a pass grade for a research thesis (doctoral thesis) of at least 120 credits.

Degree of Licentiate

Knowledge and understanding

For a Degree of Licentiate, the doctoral student shall

- demonstrate knowledge and understanding in the research domain 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.

Competence and skills

For a Degree of Licentiate, the doctoral student shall

- demonstrate the ability to identify and formulate issues with scholarly precision critically, autonomously and creatively, and to plan and use appropriate methods to undertake a limited piece of research and other qualified tasks within predetermined time frames in order to contribute to the formation of knowledge as well as to evaluate this work,
- demonstrate the ability in both national and international contexts to present and discuss research and research findings in speech and writing and in dialogue with the academic community and society in general, and
- demonstrate the skills required to participate autonomously in research and development work and to work autonomously in another qualified capacity.

Judgement and approach

For a Degree of Licentiate, the doctoral student shall



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- demonstrate the ability to make assessments of ethical aspects of his or her own research,
- demonstrate specialised insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used, and
- demonstrate the ability to identify the need for further knowledge, and take responsibility for his or her ongoing learning.

Thesis

For a Degree of Licentiate, the doctoral student shall have been awarded a pass grade for a research thesis of at least 60 credits.