Master Programme in Logistics and Supply Chain Management

Programme code: TALSF
Scope: 120 credits
Cycle: Second
Approved by: Programme Board I
Validity: 2018/2019
Date of approval: 20 March 2018
In addition to the syllabus, general regulations and information for the Faculty of Engineering apply to this programme.

1 Aim and outcomes

1.1 Aim
The overall aim is to develop knowledge, skills and competence in the area of Logistics and Supply Chain Management (L&SCM).

1.2 Outcomes for a Degree of Master of Science (120 credits)
(Higher Education Ordinance 1993:100)

Knowledge and understanding
For a Degree of Master of Science (120 credits) the student shall
- demonstrate knowledge and understanding in the main field of study, including both broad knowledge of the field and a considerable degree of specialised knowledge in certain areas of the field as well as insight into current research and development work, and
- demonstrate specialised methodological knowledge in the main field of study.

Competence and skills
For a Degree of Master of Science (120 credits) the student shall
- demonstrate the ability to critically and systematically integrate knowledge and analyse, assess and deal with complex phenomena, issues and situations even with limited information
- demonstrate the ability to identify and formulate issues critically, autonomously and creatively as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames and so contribute to the formation of knowledge as well as the ability to evaluate this work
- demonstrate the ability in speech and writing both nationally and internationally to report clearly and discuss his or her conclusions and the knowledge and arguments on which they are based in dialogue with different audiences, and
- demonstrate the skills required for participation in research and development work or autonomous employment in some other qualified capacity.

Judgement and approach
For a Degree of Master of Science (120 credits) the student shall
- demonstrate the ability to critically and systematically integrate knowledge and arguments, assess and deal with complex phenomena, issues and situations within L&SCM even with limited information
- demonstrate the ability to identify and formulate issues within L&SCM critically, autonomously and creatively as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames and so contribute to the formation of knowledge as well as the ability to evaluate this work
- demonstrate the ability to identify and formulate issues within L&SCM critically, autonomously and creatively as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames and so contribute to the formation of knowledge as well as the ability to evaluate this work
- understand and apply the principles, processes, practices and tools of L&SCM
- understand the interdependencies of functional areas (both within SCM e.g. warehousing/material handling, purchasing, production and inventory control, distribution/transportation, logistics, packaging and related to other areas, e.g. product development and finance) and how performance in each area affects and is affected by integrated holistic SCM.

Competence and skills
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- demonstrate the ability in speech and writing both nationally and internationally to report clearly and discuss his or her conclusions and the knowledge and arguments on which they are based in dialogue with different audiences, and
- demonstrate the skills required for participation in research and development work or autonomous employment in some other qualified capacity, within L&SCM (e.g. skills in literature review, research problem formulation, research design/methodology, data collection/analysis techniques/simulation, dissemination strategies, change management).

Judgement and approach
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Master Programme in Logistics and Supply Chain Management: Programme syllabus

1.4 Further studies
On completion of the second-cycle degree, students have basic eligibility for third-cycle studies.

2 Programme structure
The program is a multidisciplinary approach to the design, planning and management of supply chains and logistics strategies, networks, processes and systems. It should bring a holistic perspective, as well as functional skills. The courses and master’s thesis work are planned to include relevant and contemporary issues within the field in order to fulfil the aim and learning objectives.

When designing the program, four important aspects of knowledge, skills and abilities will be used as foundation. These aspects are:
- Contextual knowledge in relation to logistics and supply chain management in a changing world, from a global to a local perspective.
- Thematic knowledge and skills, e.g. regarding concepts, theories, methods and tools, to make decisions in logistics and supply chain management.
- Process related knowledge and skills to facilitate the capacity development of others related to logistics and supply chain management.
- Systems perspective, i.e. knowledge and skills to facilitate the understanding and management of the complexity and interdependencies of factors and processes in logistics and supply chain management.

The program contains eight (8) mandatory courses and one (1) mandatory degree project. In addition, elective courses give an opportunity to either develop a breadth or focus on a selected area. The program starts with a mandatory course that assures that all students have the same fundamentals, and before the concluding degree project a mandatory course in research methods is given. Several of the courses will be delivered with active cooperation and involvement of the industry and organizations. The program is structured to address problem solving techniques with quantitative and qualitative models including case studies, project work, business games and simulations. The general philosophy is that students should get joint experiences to reflect on and discuss with their peers, and learn from those experiences and discussions and not only from lectures and literature.

2.1 Courses
The courses included in the programme are indicated in the timetable. In addition to these courses, students are entitled to accreditation of 7.5 credits of courses in Swedish (organised by Lund University for exchange students).

3 Specific admission requirements
3.1 Admission requirements
A Bachelor’s degree in industrial engineering and management, mechanical engineering, operations management, logistics or equivalent. The degree should include one course in business logistics and/or operations management (or related), one course in mathematical statistics/probability theory, one course in computer programming, and basic courses in algebra and calculus of at least 20 credits/ECTS. Students must also have documented proficiency in English corresponding to at least English 6 in Swedish upper secondary school.

4 Degree
4.1 Degree requirements
For a Degree of Master of Science (120 credits) students must successfully complete courses comprising 120 credits, including a degree project worth 30 credits. 75 credits must be second-cycle credits, including the degree project.

4.1.1 Degree project
For a Degree of Master of Science (120 credits) students must complete an independent project (degree project) of no less than 30 credits as part of the course requirements. The degree projects included in the programme are listed in the timetable.

4.2 Degree and degree certificate
When students have completed all the degree requirements, they are entitled to apply for a degree certificate for a Master of Science (120 credits). Main Field of Study: Logistics and Supply Chain Management.