AALBORG UNIVERSITET

ENTREPRENEURIAL ENGINEERING 2017

MASTER OF SCIENCE (MSC) IN TECHNOLOGY
AALBORG

Link to this studyline

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§ 1: PREFACE

Pursuant to Act 261 of March 18, 2015 on Universities (the University Act) with subsequent changes, the following curriculum for the Master's programme in Entrepreneurial Engineering is stipulated. The programme also follows the Joint Programme Regulations and the Examination Policies and Procedures for the Technical Faculty of IT and Design, the Faculty of Social Sciences and Humanities and the Faculty of Medicine.

§ 2: BASIS IN MINISTERIAL ORDERS

The Master's programme is organised in accordance with the Ministry of Higher Education and Science's Order no. 1061 of June 30, 2016 on Bachelor's and Master's Programmes at Universities (the Ministerial Order of the Study Programmes) and Ministerial Order no. 1062 of June 30, 2016 on University Examinations (the Examination Order). Further reference is made to Ministerial Order no. 258 of March 18, 2015 (the Admission Order) and Ministerial Order no. 114 of February 3, 2015 (the Grading Scale Order) with subsequent changes.

§ 3: CAMPUS

The programme is offered in Aalborg.

§ 4: FACULTY AFFILIATION

The Master's programme falls under the Faculty of Social Sciences and Humanities, Aalborg University.

§ 5: STUDY BOARD AFFILIATION

The Master's programme falls under the Study Board of Economics and Business Administration.

§ 6: AFFILIATION TO CORPS OF EXTERNAL EXAMINERS

The Master's programme is associated with the external examiners corps on the Nationwide engineering examiners/Machine.

§ 7: ADMISSION REQUIREMENTS

Applicants with one of the following degrees are entitled to admission:

- Bachelor of Science in Architecture and Design
- Bachelor of Science in Civil Engineering
- Bachelor of Science in Electronics and Computer Engineering
- Bachelor of Science in Internet Technology
- Bachelor of Science in Computer Systems
- Bachelor of Science in Software
- Bachelor of Science in Machine and Manufacturing
- Bachelor of Science in Medialogy
- Bachelor of Science in City-, Energy and Envrironmental Planning
- Bachelor of Science in Health Science and Technology
- Bachelor of Science in Architectural Technology and Construction Management
- Bachelor of Science in Civil Engineering
- Bachelor of Science in Mechanical Engineering
- Bachelor of Science in Engineering in Information and Communication Technology.

Applicants without legal claim to admission:

Other professional bachelor degrees from the technical science or natural science field may be admitted upon specific academic assessment by the Board of Studies.

Students with another Bachelor degree may, upon application to the Board of Studies, be admitted upon a specific academic assessment if the applicant is considered as having comparable educational prerequisites. The University may stipulate requirements concerning conducting additional exams prior to the start of study.

The basic education as bachelor, diploma engineer or similar must contain an element of innovation/business creation/business understanding corresponding to minimum 10 ECTS (acquired through projects or courses).

Since the education is conducted in English there is a minimum requirement of English capabilities at level B or similar internationally acknowledged tests cf. § 6 in declaration number 213 dated 21/02/2012 regarding admission a.o. for bachelor´s and master´s programmes at the universities (notification of admission/adgangsbekendtgørelsen)

From September 2018 Mathematics C or documentation of equivalent qualifications is required.

§ 8: THE PROGRAMME TITLE IN DANISH AND ENGLISH

The Master's programme entitles the graduate to the Danish designation Cand.tech. i forretningsinnovation. The English designation is: Master of Science (MSc) in Technology (Entrepreneurial Engineering).

§ 9: PROGRAMME SPECIFICATIONS IN ECTS CREDITS

The Master's programme is a 2-year, research-based, full-time study programme. The programme is set to 120 ECTS credits.

§ 10: RULES CONCERNING CREDIT TRANSFER (MERIT), INCLUDING THE POSSIBILITY FOR CHOICE OF MODULES THAT ARE PART OF ANOTHER PROGRAMME AT A UNIVERSITY IN DENMARK OR ABROAD

The Study Board can approve successfully completed (passed) programme elements from other Master's programmes in lieu of programme elements in this programme (credit transfer). The Study Board can also approve successfully completed (passed) programme elements from another Danish programme or a programme outside of Denmark at the same level in lieu of programme elements within this curriculum. Decisions on credit transfer are made by the Study Board based on an academic assessment. See the Joint Programme Regulations for the rules on credit transfer.

§ 11: EXEMPTIONS

In exceptional circumstances, the Study Board study can grant exemption from those parts of the curriculum that are not stipulated by law or ministerial order. Exemption regarding an examination applies to the immediate examination.

§ 12: RULES FOR EXAMINATIONS

The rules for examinations are stated in the Examination Policies and Procedures - published at this website: https://www.studieservice.aau.dk/Studielegalitet/

§ 13: RULES CONCERNING WRITTEN WORK, INCLUDING THE MASTER'S THESIS

In the assessment of all written work, regardless of the language it is written in, weight is also given to the student's formulation and spelling ability, in addition to the academic content. Orthographic and grammatical correctness as well as stylistic proficiency are taken as a basis for the evaluation of language performance. Language performance must always be included as an independent dimension of the total evaluation. However, no examination can be assessed as 'Pass' on the basis of good language performance alone; similarly, an examination normally cannot be assessed as 'Fail' on the basis of poor language performance alone.

The Study Board can grant exemption from this in special cases (e.g., dyslexia or a native language other than Danish).

The Master's Thesis must include an English summary (or another foreign language: French, Spanish or German upon approval by the Study Board). If the project is written in English, the summary must be in Danish (The Study Board can grant exemption from this). The summary must be at least 1 page and not more than 2 pages (this is not included in any fixed minimum and maximum number of pages per student). The summary is included in the evaluation of the project as a whole.

§ 14: REQUIREMENTS REGARDING THE READING OF TEXTS IN A FOREIGN LANGUAGE

At programmes taught in Danish, it is assumed that the student can read academic texts in modern Danish, Norwegian, Swedish and English and use reference works, etc., in other European languages. At programmes taught in English, it is assumed that the student can read academic text and use reference works, etc., in English.

§ 15: COMPETENCE PROFILE ON THE DIPLOMA

The following competence profile will appear on the diploma:

A Candidatus graduate has the following competency profile:

A Candidatus graduate has competencies that have been acquired via a course of study that has taken place in a research environment.

A Candidatus graduate is qualified for employment on the labour market based on his or her academic discipline as well as for further research (PhD programmes). A Candidatus graduate has, compared to a Bachelor, developed his or her academic knowledge and independence so as to be able to apply scientific theory and method on an independent basis within both an academic and a professional context.

§ 16: COMPETENCE PROFILE OF THE PROGRAMME

The graduate of the Master's programme:

Knowledge

- The graduate will have acquired knowledge about theories, methods and tools within the fields of business development, innovation, entrepreneurship, agile processes, prototyping, design thinking and creativity, based on research at the highest international level
- The graduate can understand and scientifically reflect on knowledge associated with the above-mentioned areas, and the graduate will be able to idenfiy research questions related to these areas.

Skills

- The graduate has learned to master the scientific methods, tools and general skills related to business development, innovation, entrepreneurship, agile processes, prototyping, design thinking and creativity.
- The graduate will be able to choose between the different scientific theories, methods, tools and general skills and – based on a scientific foundation – generate models of analysis and solutions.
- The graduate will be able to disseminate research-based knowledge and discuss professional and scientific topics with both peers and non-specialists.

Competencies

- The graduate can use creative and lateral thinking for the creation of new and innovative solutions and methods.
- The graduate can identify and create new technology- and knowledge based opportunities for value creation and business.
- The graduate can organize the process of qualifying, quantifying and pursuing opportunities in both new and existing organizations.
- The graduate will be able to strengthen the potential for creativity and innovation in existing organizations through implementation of new processes and methods.
- The graduate will be able to independently take responsibility for his/her own professional development and specialisation.
- The graduate will have developed professional competencies within developing new business and the transformation of organisational settings with a special attention to:
    - Commercialisation of new knowledge
    - Value creation through innovative solutions
    - Development and implementation of processes that enable creative and innovative solutions in organisations.

§ 17: STRUCTURE AND CONTENTS OF THE PROGRAMME

The programme is structured in modules and organised as a problem-based study. A module is a programme element or a group of programme elements aiming to give students a set of professional skills within a fixed time frame specified in ECTS credits, and concluding with one or more examinations within specific exam periods that are defined in the curriculum.

The programme is based on a combination of academic, problem-oriented and interdisciplinary approaches and organised based on the following work and evaluation methods that combine skills and reflection:

- Lectures
- Classroom instruction
- Project work
- Workshops
- Collaboration with external partners
- Exercises (individually and in groups)
- Teacher feedback
- Reflection
- Portfolio work

§ 18: OVERVIEW OF THE PROGRAMME

The table below gives an overview of the project modules and course modules that need to be completed during the four Semesters of the master´s programme.

All modules are assessed through individual grading according to the 7-point scale *or* Pass/Fail. All modules are assessed by external examination (external grading) or internal examination (internal grading or by assessment by the supervisor only).

Offered as:					
Module name	Course type	ECTS	Applied grading scale	Evaluation method	Assessment method
1 SEMESTER					
Entrepreneurial Practice	Project	15	7-point grading scale	Internal examination	Oral exam based on a project
Agile Business Navigation	Course	5	Passed/Not Passed	Internal examination	Written or oral exam
Design Based Innovation	Course	5	7-point grading scale	Internal examination	Written or oral exam
Understanding Entrepreneurship	Course	5	7-point grading scale	Internal examination	Written or oral exam
2 SEMESTER					
Entrepreneurial Tactics	Project	15	7-point grading scale	External examination	Oral exam based on a project
Corporate Entrepreneurship	Course	5	7-point grading scale	Internal examination	Written or oral exam
Applied Business Modelling	Course	5	7-point grading scale	Internal examination	Written or oral exam
Markets, Resources and Entrepreneurship	Course	5	7-point grading scale	Internal examination	Written or oral exam
3 SEMESTER Elective track A					
Entrepreneurial Strategy	Project	30	7-point grading scale	Internal examination	Written or oral exam

3 SEMESTER Elective track B					
Traineeship	Project	30	7-point grading scale	Internal examination	Written or oral exam
3-4 SEMESTER					
Long Master's Thesis	Project	60	7-point grading scale	External examination	Master's thesis/final project
4 SEMESTER					
Master's Thesis	Project	30	7-point grading scale	External examination	Master's thesis/final project

The 3rd Semester offers different ways of organisation – depending on the student's choice of content; traditional project work at Aalborg University, study visit at an educational institution in Denmark or abroad, voluntary academic internship with project work at a company in Denmark or abroad, or a Semester programme that comprises cross-disciplinary programme elements composed by the student. The total work load of the Semester must be equivalent to 30 ECTS. The project may be finalised with a project report or in the form of a scientific paper, or, if the project is continued on the 4 th Semester, with a midterm evaluation.The academic traineeship has to be approved by the study board before the beginning of the Semester.

The master thesis can be conducted as a long master thesis using both the 3rd and 4th Semester. If choosing to do a long master thesis, it has to include experimental work and has to be approved by the study board.

§ 19: ADDITIONAL INFORMATION

The current version of the curriculum is published on the Board of Studies' website, including more detailed information about the programme, including exams.

All students who have not participated in Aalborg University's PBL introductory course during their Bachelor's degree must attend the introductory course "Problem-based Learning and Project Management". The introductory course must be approved before the student can participate in the project exam.

§ 20: COMMENCEMENT AND TRANSITIONAL RULES

The curriculum is approved by the Dean of the Faculty of Engineering and Science and enters into force as of September 2017.

Students who wish to complete their studies under the previous curriculum from 2013 must conclude their education by the summer examination period 2018 at the latest, since examinations under the previous curriculum are not offered after this time.

In accordance with the Joint Programme Regulations for the Faculty of Social Sciences and Humanities, the curriculum must be revised no later than five years after its entry into force.

§ 21: AMENDMENTS TO THE CURRICULUM AND REGULATIONS

Minor editorial changes have been made in connection with digitisation of the study curriculum.

April 9, 2019: Starting from September 2018 Mathematics C or documentation of equivalent qualifications is required.