MASTER OF SCIENCE IN TECHNOLOGY (OPERATIONS AND INNOVATION MANAGEMENT WITH SPECIALISATIONS IN GLOBAL MANAGEMENT AND MEDIA MANAGEMENT) 2017

MASTER OF SCIENCE (MSC) IN TECHNOLOGY COPENHAGEN

Master of Science in Technology (Operations and Innovation Management with specialisations in Global Management and Media Management) 2017

Link to this studyline

Link(s) to other versions of the same line:

Master of Science (MSc) in Technology (Operations and Innovation Management)

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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 Operations and Innovation Management is stipulated. The programme also follows the Joint programme regulations and the Examination Policies and Procedures for the The Faculty of Engineering and Science.

§ 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 Copenhagen.

§ 4: FACULTY AFFILIATION

The Master's programme falls under the The Faculty of Engineering and Science, Aalborg University.

§ 5: STUDY BOARD AFFILIATION

The Master's programme falls under the Study Board of Production.

§ 6: AFFILIATION TO CORPS OF EXTERNAL EXAMINERS

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

§ 7: ADMISSION REQUIREMENTS

Applicants with a legal claim to admission (retskrav):

- None

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

- Bachelor of Science in Business Administration - CBS

- Bachelor of Engineering in Chemistry and Business Economy - DTU

- Bachelor of Engineering in Manufacturing and Management - DTU

- Bachelor of Engineering in Process and Innovation - DTU

- Bachelor of Engineering in IT - AU

- Bachelor of Engineering in Interaction Design - SDU

- Bachelor of Engineering in Global Management and Manufacturing - SDU

- Bachelor of Engineering in Business Development Engineer - AU

- Bachelor of Science in Product Development and Innovation - SDU

- Bachelor of Science in Innovation and Business - SDU

- Bachelor of Science in Global Business Informatics - ITU

- Bachelor of Science in Global Business Engineering - AAU

- Bachelor of Science in Design and Innovation - DTU

Applicants without a legal claim to admission:

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.

§ 8: THE PROGRAMME TITLE IN DANISH AND ENGLISH

Students completing the specialisation in Media Management entitle the graduate to the Danish designation Cand.tech. i værdikæder og innovationsledelse med specialisering i medieledelse. The English designation is: Master of Science (MSc) in Technology (Operations and Innovation Management) with specialisation in Media Management.

Students completing the specialisation in Global Management entitle the graduate to the Danish designation Cand.tech. i værdikæder og innovationsledelse med specialisering i global ledelse. The English designation is: Master of Science (MSc) in Technology (Operations and Innovation Management) with specialisation in Global Management.

§ 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 by the faculty on their website.

§ 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

Competence Profile of Media Management

The graduate of the Master of Science and Technology programme with a specialisation in Media Management exhibits the following characteristics:

Knowledge

- Has knowledge in the following subject areas that, in selected areas, is based on the highest international research in a subject area
- Management of media firms
- Creativity in media firms
- Creation of media clusters
- Media and technological convergence
- Global management
- Methods and concepts for global business creation
- Innovation and Change Management
- Methods and concepts for analysing and researching global business creation
- Key management systems in the global company
- Can understand, apply and, on a scientific basis, reflect over the subject area's(s') knowledge and identify scientific problems.

Skills

- Excels in Analysing Complex Business Problems and Designing New Innovative Business Solutions for Media firms using scientific methods and tools and general skills related to employment within management of media firms.
- Can evaluate and select among the subject area's(s') scientific theories, methods, tools and general skills and, on a scientific basis, advance new analyses and solutions
- Can communicate research-based knowledge and discuss professional and scientific problems with both peers and non-specialists.
- Can apply theories, methods and concepts in different empirical settings.

Competencies

- Can manage work and development in complex and unpredictable situations requiring new solutions

- Can independently initiate and implement discipline-specific and interdisciplinary cooperation and assume professional responsibility
- Can independently take responsibility for own professional development and specialisation

- Will become skilled in managing media firms, project within media firms and/or leading media projects within other industries.

Competence Profile of Global Management

The graduate of the Master of Science and Technology programme with a specialisation in Global Management exhibits the following characteristics:

Knowledge

- Has knowledge in the following subject areas that, in selected areas, is based on the highest international research in a subject area
  - Global engineering management
  - Operations Development and Strategy
  - Organisational Analysis and Design
  - Methods and concepts for global business creation
  - Innovation and Change Management
  - Methods and concepts for analysing and researching global business creation
  - Key management systems in the global company
- Can understand, apply and, on a scientific basis, reflect over the subject area's(s') knowledge and identify scientific problems.
- Has knowledge about how to integrate technological considerations and issues into the design and implementation of global business systems and value chains.

Skills

- Excels in Analysing Complex Business Problems and Designing New Innovative Business Solutions using scientific methods and tools and general skills related to employment within Global Operations and Innovation Management
- Can evaluate and select among the subject area's(s') scientific theories, methods, tools and general skills and, on a scientific basis, advance new analyses and solutions
- Can communicate research-based knowledge and discuss professional and scientific problems with both peers and non-specialists.
- Can apply theories, methods and concepts in different empirical settings.

- Can combine technological insights with market and business related considerations in the design of innovative business systems and value chains.

Competencies

- Can manage work and development in complex and unpredictable situations requiring new solutions

- Can independently initiate and implement discipline-specific and interdisciplinary cooperation and assume professional responsibility
- Can independently take responsibility for own professional development and specialisation

- Will become a Leader of Managing Technological Change and Innovation in a Global Business Context.

- Can give emphasis to the creative deployment and importance of technologies in the creation of global business systems and value chains.

§ 17: STRUCTURE AND CONTENTS OF THE PROGRAMME

The study programme in Operations and Innovation Management with specialisation in Media Management is intended to prepare students for the micro and meso management of media firms and industries including creating growth strategies for especially media firms in a global business context; the programme's main focal points are media management, media and creativity, media clusters, integration and innovation processes, and management and implementation of international organisational and technological change and convergence projects.

The aim of the specialisation is to provide the students with a foundation for designing and implementing integrated business solutions to challenges in a global media organisation and to provide them with a theoretical framework for

managing innovation, integration and implementation of change in international media businesses. This will enable the students to manage complicated technological and organisational changes at micro and meso level in a global business context.

The specialisation in Media Management aims at educating media managers with an in-depth professional knowledge and high-level practical skills within the area of media management and media cluster design. To obtain these goals, the programme is organised into modules and laid out as a problem-based, project-organised course of study. Each semester has an overall theme which serves a focal point in both modules and the project work.

The study programme in Operations and Innovation Management with specialisation in Global Management is intended to prepare students for the management of technological changes in a global business context; the programme's main focal points are integration and innovation processes, and management and implementation of international organisational and technological change projects.

The aim of the specialisation in global management is to provide the students with a foundation for designing and engineering integrated business solutions to challenges in a global organisation and to provide them with a theoretical framework for managing innovation, integration and implementation of change in international businesses. This will enable the students to manage complicated technological and organisational change in a global business context.

The specialisation in Global Management aims at educating business engineers with an in-depth professional knowledge and high-level practical skills within the area of business engineering. To obtain these goals, the Master of Science and Technology programme is organised into modules and laid out as a problem-based, project-organised course of study. Each semester has an overall theme which serves a focal point in both modules and the project work.

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

- Exercises (individually and in groups)

- Teacher feedback

- Reflection

- Portfolio work.

§ 18: OVERVIEW OF THE PROGRAMME

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

Offered as:					
Specialisation: Media Management					
Module name	Course type	ECTS	Applied grading scale	Evaluation method	Assessment method
1 SEMESTER					
Media Management: Designing Global Business Systems (or Integrated Solutions) for Media Firms	Project	15	7-point grading scale	External examination	Oral exam based on a project
Methods and Tools for Business Systems Studies	Course	5	7-point grading scale	Internal examination	Written or oral exam
Managing Global Business Systems and Value Chains	Course	5	7-point grading scale	Internal examination	Written or oral exam

Media Management, Meso	Course	5	7-point grading scale	Internal examination	Written or oral exam
2 SEMESTER					
Media Management: Innovation and Technology Management in Media Firms	Project	15	7-point grading scale	External examination	Oral exam based on a project
Innovation and Change Management	Course	5	7-point grading scale	Internal examination	Written or oral exam
Strategy, Organisation and Market Creation	Course	5	7-point grading scale	Internal examination	Written or oral exam
Media Management, Micro	Course	5	7-point grading scale	Internal examination	Written or oral exam
3 SEMESTER					
Media Management	Project	30	7-point grading scale	Internal examination	Oral exam based on a project
Academic Internship - Media Management	Project	30	7-point grading scale	Internal examination	Oral exam based on a project
3-4 SEMESTER					
Long Master's Thesis (Media Management)	Project	60	7-point grading scale	External examination	Master's thesis/final project
4 SEMESTER					
Master's Thesis (Media Management)	Project	30	7-point grading scale	External examination	Master's thesis/final project

Offered as:

Specialisation: Global Management

Module name	Course type	ECTS	Applied grading scale	Evaluation method	Assessment method
1 SEMESTER					
Designing Global Business Systems and Value Chains (or Integrated Solutions)	Project	15	7-point grading scale	External examination	Oral exam based on a project
Methods and Tools for Business Systems Studies	Course	5	7-point grading scale	Internal examination	Written or oral exam
Managing Global Business Systems and Value Chains	Course	5	7-point grading scale	Internal examination	Written or oral exam
Operations Development and Strategy	Course	5	7-point grading scale	Internal examination	Written or oral exam
2 SEMESTER					
Global Innovation and Technology Management	Project	15	7-point grading scale	External examination	Oral exam based on a project
Innovation and Change Management	Course	5	7-point grading scale	Internal examination	Written or oral exam
Strategy, Organisation and Market Creation	Course	5	7-point grading scale	Internal examination	Written or oral exam
Engineering Key Processes	Course	5	7-point grading scale	Internal examination	Written or oral exam

3 SEMESTER					
Operations and Innovation Management	Project	30	7-point grading scale	Internal examination	Oral exam based on a project
Academic Internship - Operations and Innovation Management	Project	30	7-point grading scale	Internal examination	Oral exam based on a project
3-4 SEMESTER					
Long Master's Thesis (Global Management)	Project	60	7-point grading scale	External examination	Master's thesis/final project
4 SEMESTER					
Master's Thesis (Global Management)	Project	30	7-point grading scale	External examination	Master's thesis/final project

The 3rd semester is allocated to gaining practical international experience. The semester will enable students to appreciate theoretical reflective work practice and cultural challenges. The aim of the semester is to

- Gain practical experience within the subject field

- Analyse and reflect on educational experiences and professional practice

- Clarify the Master's Thesis topic.

The 3rd semester project is carried out in collaboration with a company while the student is affiliated to the firm. The purpose of this semester is to design and execute an individual thesis study within the topics of the programme. This will enable student to demonstrate proficiency in innovation and integration processes as well as management and implementation of technological and organisational change projects in global firms.

During the 3rd semester the students may also do a study visit at an educational institution in Denmark or abroad

During the 4th semester, the Master's Thesis is completed. The Master's Thesis may be combined with the 3rd semester in an extended Master's Thesis.

§ 19: ADDITIONAL INFORMATION

The current version of the curriculum is published on the Board of Studies' website, including more detailed information about the programme and 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 2012 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.

§ 21: AMENDMENTS TO THE CURRICULUM AND REGULATIONS

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