Curriculum for the Master's Programme in Operations and Innovation Management

(cand.tech.)

Specialisations in Media Management and Global Management

Aalborg University 2012

Copenhagen

Preface

Pursuant to Act 695 of June 22, 2011 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 Framework Provisions and the Examination Policies and Procedures for the Faculty of Engineering and Science.

Contents

Chapter 1: Legal Basis of the Curriculum, etc.

1.1 Basis in Ministerial Orders

The Master of Science and Technology programme (cand.tech.) in Operations and Innovation Management is organised in accordance with the Ministry of Science, Technology and Innovation's Ministerial Order no. 814 of June 29, 2010 on Bachelor's and Master's Programmes at Universities (the Ministerial Order of the Study Programmes) and Ministerial Order no. 857 of July 1, 2010 on University Examinations (the Examination Order) with subsequent changes. Further reference is made to Ministerial Order no. 213 of February 21, 2012 (the Admission Order) and Ministerial Order no. 250 of March 15, 2007 (the Grading Scale Order) with subsequent changes.

1.2 Faculty Affiliation

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

1.3 Board of Studies Affiliation

The Master of Science and Technology programme falls under the Board of Studies of Industry and Global Business Development under the School of Engineering and Science.

Chapter 2: Admission, Degree Designation, Programme Duration and Competence Profile

2.1 Admission

Admission to the Master of Science and Technology programme in Operations and Innovation Management requires a bachelor degree in one of the following:

- Humanistic Informatics/Human Centered Informatics
- Medialogy
- IT, Communication and New Media
- Information Technology
- Informatics
- Languages
- Communication
- Media studies
- Journalism
- Film Director and Instructor
- Public Administration

- Business Studies
- Architecture
- Building construction

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.

2.2 Degree Designation in Danish and English

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

2.3 The Programme's Specification in ECTS Credits

The Master of Science and Technology programme is a 2-year, research-based, full-time study programme. The programme is set to 120 ECTS credits.

2.4 Competence Profile in the Diploma

The following competence profile will appear in the diploma:

A graduate of the Master of Science and Technology programme has competencies acquired through an educational programme that has taken place in a research environment.

The graduate of the Master's programme can perform highly qualified functions on the labour market on basis of the educational programme. Moreover, the graduate has prerequisites for research (a PhD programme). Compared to the Bachelor's degree, the graduate of the Master of Science and Technology programme has developed her/his academic knowledge and independence, so that the graduate is able to independently apply scientific theory and method in both an academic and occupational/professional context.

2.5 Competence Profile of the Programme

2.5.1 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

    o Management of media firms
    o Creativity in media firms
    o Creation of media clusters
    o Media and technological convergence
    o Global management
    o Methods and concepts for global business creation
    o Innovation and Change Management
    o Methods and concepts for analysing and researching global business creation
    o 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.

2.5.2 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.

Chapter 3: Content and Organisation 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.

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 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.

3.1. Overview of the specialisation in Media Management

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)

Semester	Module	ECTS	Grading	Exam
1st	Media Management: Designing Global Business Systems (or Integrated Solutions) for Media Firms (Project Module – see section 3.3.1)	15	7-point scale	Internal
	Researching Business Systems (course – see section 3.3.3)	5	7-point scale	Internal
	Managing Global Business Systems and Value Chains (course - see section 3.3.4)	5	7-point scale	Internal
	Media Management, Meso (course – see section 3.3.6)	5	7-point scale	Internal
2nd	Media Management: Innovation and Technology Management in Media Firms (Project module - see section 3.4.1)	15	7-point scale	External
	Innovation and Change Management (course - see section 3.4.3)	5	7-point scale	Internal
	Strategy, Organisation and Market Creation (course - see section 3.4.4)	5	7-point scale	Internal
	Media Management, Micro (course - see section 3.4.5)	5	7-point scale	Internal
3rd	Media Management[1]	30	7-point scale[2]	Internal
	Scientific Paper[3]	30	7-point scale[4]	Internal
	Internship	30	7-point scale	Internal
4th	Master's Thesis	30	7-point scale	External

3.2. Overview of the specialisation in global management

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)

Semester	Module	ECTS	Grading	Exam
1st	Designing Global Business Systems and	15	7-point scale	Internal

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[1] The project must be equivalent to at least 15 ECTS. Course modules approved by the Study Board for the specific study must supplement to a total of 30 ECTS.
[2] By agreement with the Study Board of Industry and Global Business Development, the project may be reduced to allow for participation in course activities. However, the project must encompass at least 15 ECTS. Proposed course activity is evaluated and tested in accordance with the curriculum in which the course module is described.
[3] Scientific paper writing must be equivalent to at least 15 ECTS. Course modules approved by the Study Board for the specific study must supplement to a total of 30 ECTS.
[4] By agreement with the Study Board of Industry and Global Business Development, scientific paper writing may be reduced to allow for participation in course activities. However, the scientific paper must encompass at least 15 ECTS. Proposed course activity is evaluated and tested in accordance with the curriculum in which the course module is described.

	Value Chains (or Integrated Solutions) (Project module – see section 3.3.2)			
	Researching Business Systems (course - see section 3.3.3)	5	7-point scale	Internal
	Managing Global Business Systems and Value Chains (course - see section 3.3.4)	5	7-point scale	Internal
	Operations Development and Strategy (course - see section 3.3.6)	5	7-point scale	Internal
2nd	Global Innovation and Technology Management (Project module - see section 3.4.2)	15	7-point scale	External
	Innovation and Change Management (course - see section 3.4.3)	5	7-point scale	Internal
	Strategy, Organisation and Market Creation (course - see section 3.4.4)	5	7-point scale	Internal
	Management Systems (course - see section 3.4.6)	5	7-point scale	Internal
3rd	Operations and Innovation Management[5]	30	7-point scale[6]	Internal
	Scientific Paper[7]	30	7-point scale[8]	Internal
	Internship	30	7-point scale	Internal
4th	Master's Thesis	30	7-point scale	External

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[5] The project must be equivalent to at least 15 ECTS. Course modules approved by the Study Board for the specific study must supplement to a total of 30 ECTS.

[6] By agreement with the Study Board of Industry and Global Business Development, the project may be reduced to allow for participation in course activities. However, the project must encompass at least 15 ECTS. Proposed course activity is evaluated and tested in accordance with the curriculum in which the course module is described.

[7] Scientific paper writing must be equivalent to at least 15 ECTS. Course modules approved by the Study Board for the specific study must supplement to a total of 30 ECTS.

[8] By agreement with the Study Board of Industry and Global Business Development, scientific paper writing may be reduced to allow for participation in course activities. However, the scientific paper must encompass at least 15 ECTS. Proposed course activity is evaluated and tested in accordance with the curriculum in which the course module is described.

3.3 Courses 1st semester

3.3.1 Media Management: Designing Global Business Systems (or Integrated Solutions) for Media firms (15 ECTS)

Title:

> **Media Management: Designing Global Business Systems (or Integrated Solutions) for Media Firms**
>
> (Medieledelse: Design af globale forretningssystemer eller integrerede løsninger)

Prerequisites   The student must meet the admission requirements described in chapter 2.1.

Objective: Students who complete the module are expected to:

Knowledge

- Have deepened their understanding of the theories taught on this semester by applying these theories in practice.

Skills

- Be able to analyse, and develop an integrated solution to a practical problem concerning the design of business systems or clusters within the context of the media industries or analysing home or host country effects, usually in the form of a project developed in and together with an organisation/firms. The project theme is designing Business Systems in media firms and normally requires:
  o Demarcation and analysis of the empirical background to the problem
  o Develop an operationalisation of a relevant and researchable research problem/project objective, using theory taught on this semester, but usually going beyond that.
  o Development of an adequate research/project design, including:
    - Detailed questions/objectives
    - An account of the data collection and data validation methods, data sources
    - An account of the analytical methods used and methods used to validate the findings
    - An account of the (design) methods used to develop recommendations/solutions to resolve the research problem/ achieve the project objective.
- Presentation and validation of data
- Presentation, validation and discussion of analytical findings

- Presentation and validation of recommendations/solutions
- Evaluation of the findings and recommendations/solutions, methods and, if relevant, considerations regarding the limitations and generalisability of the study.

Competencies

- Be able to work together as a team to analyse and develop integrated and feasible solution(s) to a practical organisational problem in a media firm.
- Be able to work together with an organisation in an academically yet practically adequate manner.

Type of instruction: The module is carried out as group-based, problem-oriented project work. The group work is carried out as an independent work process in which the students themselves organise and coordinate their workload in collaboration with a supervisor. The project is carried out in groups with normally no more than 6 members.

Exam format: Internal, oral examination based on a written report.

Evaluation criteria: Are stated in the Framework Provisions.

3.3.2 Designing Global Business Systems and Value Chains (or Integrated Solutions) (15 ECTS)

Title:

Designing Global Business Systems and Value Chains (or Integrated Solutions)

(Design af globale forretningssystemer og værdikæder eller integrerede løsninger)

Prerequisites   The student must meet the admission requirements described in chapter 2.1.

Objective: Students who complete the module are expected to:

Knowledge

- Have deepened their understanding of the theories taught on this semester by applying these theories in practice.
- Have developed an understanding of the role of technology in global organisation.

Skills

- Be able to analyse, and develop an integrated solution to a practical problem concerning the design of a global value chain and/or business system, usually in the form of a project developed in and together with an organisation. The project theme is designing Global Value Chains and Business Systems and normally requires:
  - Demarcation and analysis of the empirical background to the problem
  - Develop an operationalisation of a relevant and researchable research problem/project objective, using theory taught on this semester, but usually going beyond that.
  - Development of an adequate research/project design, including:
    - Detailed questions/objectives
    - An account of the data collection and data validation methods, data sources
    - An account of the analytical methods used and methods used to validate the findings
    - An account of the (design) methods used to develop recommendations/solutions to resolve the research problem/ achieve the project objective.
- Presentation and validation of data
- Presentation, validation and discussion of analytical findings
- Presentation and validation of recommendations/solutions
- Evaluation of the findings and recommendations/solutions, methods and, if relevant, considerations regarding the limitations and generalisability of the study.

- Be able to integrate technological considerations in to the design of global business systems and value chains.

Competencies

- Be able to work together as a team to analyse and develop integrated and feasible solution(s) to a practical organisational problem
- Be able to work together with an organisation in an academically yet practically adequate manner.

Type of instruction: The module is carried out as group-based, problem-oriented project work. The group work is carried out as an independent work process in which the students themselves organise and coordinate their workload in collaboration with a supervisor. The project is carried out in groups with normally no more than 6 members.

Exam format: Internal, oral examination based on a written report.

Evaluation criteria: Are stated in the Framework Provisions.

3.3.3 Researching Business Systems (5 ECTS)

Title: **Researching Business Systems**

(Studier af forretningssystemer)

Prerequisites   The student must meet the admission requirements described in chapter 2.1.

Objective: Students who complete the module are expected to have:

Knowledge

- A coherent and profound understanding methodological approaches and tools for studying global value chains and business systems
- Understanding of the key methodological trade-offs between different methods when studying global value chains and business systems.
- Understanding the key approaches to increase the quality of data collection
- Knowledge of different methods to describe, analyse and improve global value chains.
- Knowledge of how to describe and understand business processes in the global organisation.

Skills

- Developed skills that enable the student to apply different research methods necessary for analysing and improving global business processes.
- Developed skills in evaluating different strategies and approaches for data collection and analysis.
- Developed skills in analysing and understanding global and processes.

Competencies

- Be able to select and operationalise appropriate approaches to data collection and analysis
- Be able to collect reliable and valid data.
- Be able to model and analyse value chains and processes in the globalized organisation.

Type of instruction: The learning objectives are realised via lectures, discussions and case work (see chapter 3).

Exam format: Internal oral/written examination (for further information, please see the programme's study guide).

Evaluation criteria: Are stated in the Framework Provisions.

3.3.4 Managing Global Business Systems and Value Chains (5 ECTS)

Title: **Managing Global Business Systems and Value Chains**

                              (Ledelse af globale forretningssystemer og værdikæder)

Prerequisites   The student must meet the admission requirements described in chapter 2.1.

Objective: Students who complete the module are expected to have:

Knowledge

- A coherent and profound understanding of how and why organizations globalise, including an in-depth knowledge of the associated theories and strategies
- A profound understanding of the different theoretical perspectives on management in the global organization and how these different perspectives can be operationalised when analysing management in the global organization.
- Knowledge of different strategic configuration of organizations, including network structures, as well as an understanding of the key management challenges and issues associated with managing the global organization.
- Knowledge about strategic innovation in a global context.

Skills

- Developed skills in applying the different theoretical perspectives
- Developed skills to evaluate different options and argue for specific choices for strategic design of global value chains and business systems, the development of appropriate strategies, including recognising competitive opportunities, configuring global capabilities as well as organisational value chains and designs
- Developed relevant skills to apply theories and methods to the improvement and reorganisation of global value chains and business systems
- Developed skills to identify and implement options for reorganisation and improvements in the context of global value chain and business systems.

Competencies

- Be able to discuss the complex of problems associated with globalisation of organisations to outline the different paths and strategies an organization may choose to globalize value chains and business systems

- Develop abilities to craft and implement relevant organizational set-ups in the global organisation.

Type of instruction: The learning objectives are realised via lectures, discussions and case work (see chapter 3).

Exam format: Internal oral/written examination (for further information, please see the programme's study guide).

Evaluation criteria: Are stated in the Framework Provisions.

3.3.5 Media Management, Meso (5 ECTS)

Title:	**Media Management, Meso**
	(Medieledelse)
Prerequisites	The student must meet the admission requirements described in chapter 2.1
Objective:	Students who complete the module are expected to:

Knowledge

- Have gained knowledge and understanding how media industries are organised spatially and what their social effects are – Including knowledge about
    - Media and globalisation including globalisation of media conglomerates
    - Outsourcing/offshoring and media production
    - Outsourcing/offshoring and spillover-effects
    - Media economics (e.g. Hollywood economics)
    - Construction of media clusters
    - Media in society and related policy issues

Skills

- Be able to understand why media firms globalise in particular ways and what the implication of their globalization is for the home and host societies.
- Be able to understand the principles behind media economics
- Understand the role of policy in constructing media clusters
- Be able to grasp controversies related to media's role in society

Competencies

- Design and create analytical frameworks for assessment the drivers behind media firms' globalisation strategies and their local implications using multiple perspectives
- Reflect on the how to create media clusters
- Navigate in discussions related to media's role in society.

Type of instruction: The module is carried out via lectures, discussions and cases (see chapter 3).

Exam format: Internal, oral/written examination (for further information, please see the programme's study guide).

Evaluation criteria: Are stated in the Framework Provisions.

3.3.6 Operations Development and Strategy (5 ECTS)

Title: **Operations Development and Strategy**

(Global produktionsudvikling og -strategi)

Prerequisites   The student must meet the admission requirements described in chapter 2.1.

Objective: Students who complete the module are expected to have:

Knowledge

- A coherent and profound understanding of how and why operations globalise, including an in-depth knowledge of the associated theories and strategies
- Insight into the strategic analysis and synthesis of global operations footprints including the understanding of; the strategic situation; the process of globalisation; and the theory-based conceptualisation of operations strategy
- Knowledge of strategic configuration of operations, including structures and infrastructures, the extended operations system and strategic capabilities
- Knowledge about strategic innovation in an operations system context.

Skills

- Developed skills to evaluate different options and argue for specific choices for strategic design of global operations systems and operations development strategies, including recognising of competitive opportunities, configuring operations capabilities, organisational processes and organisational designs
- Developed relevant skills to apply theories and methods to the improvement and reorganisation of global operations
- Developed skills to identify and implement options for reorganisation and improvements in the context of global operations.

Competencies

- Be able to discuss the complex of problems associated with globalisation of operations to outline the different paths and strategies a company may choose
- Develop abilities to craft and implement relevant operations strategies.

Type of instruction: The learning objectives are realised via lectures, discussions and case work (see chapter 3).

Exam format: Internal oral/written examination (for further information, please see the programme's study guide).

Evaluation criteria: Are stated in the Framework Provisions.

3.4 Courses, 2nd semester

3.4.1 Media Management: Innovation and Technology Management (15 ECTS)

Title: Media Management: Innovation and Technology Management

(Medieledelse: Innovations- og teknologiledelse)

Prerequisites The student must meet the admission requirements described in chapter 2.1.

Objective: Students who complete the module are expected to:

Knowledge

- Have deepened their understanding of the theories taught on this semester by applying these theories in practice.

Skills

- Be able to analyse, and develop an integrated solution to a practical problem concerning technology and innovation leadership/management within the media industries, usually in the form of a project developed in and together with an organisation. The project theme is Media Management and Innovation and Technology management and normally requires:
  o Demarcation and analysis of the empirical background to the problem
  o Develop an operationalisation of a relevant and researchable research problem/project objective, using theory taught on this semester, but usually going beyond that.
  o Development of an adequate research/project design, including:
    ▪ Detailed questions/objectives
    ▪ An account of the data collection and data validation methods, data sources
    ▪ An account of the analytical methods used and methods used to validate the findings
    ▪ An account of the (design) methods used to develop recommendations/solutions to resolve the research problem/ achieve the project objective.
- Presentation and validation of data
- Presentation, validation and discussion of analytical findings
- Presentation and validation of recommendations/solutions

- Evaluation of the findings and recommendations/solutions, methods and, if relevant, considerations regarding the limitations and generalisability of the study.

Competencies

- Be able to work together as a team to analyse and develop integrated and feasible solution(s) to a practical organisational problem in media firms.
- Be able to work together with an organisation in an academically yet practically adequate manner.

Type of instruction: The module is carried out as group-based, problem-oriented project work. The group work is carried out as an independent work process in which the students themselves organise and coordinate their workload in collaboration with a supervisor. The project is carried out in groups with normally no more than 6 members.

Exam format: External, oral examination based on a written report.

Evaluation criteria: Are stated in the Framework Provisions.

3.4.2 Global Innovation and Technology Management (15 ECTS)

Title: **Global Innovation and Technology Management**

                        (Global innovations- og teknologiledelse)

Prerequisites   The student must meet the admission requirements described in chapter 2.1.

Objective: Students who complete the module are expected to:

Knowledge

- Have deepened their understanding of the theories taught on this semester by applying these theories in practice.
- Have developed and understanding of the role of technology in global organisation.

Skills

- Be able to analyse, and develop an integrated solution to a practical problem concerning the design of a global value chain and/or business system, usually in the form of a project developed in and together with an organisation. The project theme is global innovation and technology management and normally requires:
  - Demarcation and analysis of the empirical background to the problem
  - Develop an operationalisation of a relevant and researchable research problem/project objective, using theory taught on this semester, but usually going beyond that.
  - Development of an adequate research/project design, including:
    - Detailed questions/objectives
    - An account of the data collection and data validation methods, data sources
    - An account of the analytical methods used and methods used to validate the findings
    - An account of the (design) methods used to develop recommendations/solutions to resolve the research problem/ achieve the project objective.
- Presentation and validation of data
- Presentation, validation and discussion of analytical findings
- Presentation and validation of recommendations/solutions
- Evaluation of the findings and recommendations/solutions, methods and, if relevant, considerations regarding the limitations and generalisability of the study.
- Be able to integrate technological considerations in to the design of global business systems and value chains.

Competencies

- Be able to work together as a team to analyse and develop integrated and feasible solution(s) to a practical organisational problem
- Be able to work together with an organisation in an academically yet practically adequate manner.

Type of instruction: The module is carried out as group-based, problem-oriented project work. The group work is carried out as an independent work process in which the students themselves organise and coordinate their workload in collaboration with a supervisor. The project is carried out in groups with normally no more than 6 members.

Exam format: External, oral examination based on a written report.

Evaluation criteria: Are stated in the Framework Provisions.

3.4.3 Innovation and Change Management (5 ECTS)

Title: **Innovation and Change Management**

(Innovations- og forandringsledelse)

Prerequisites   The student must meet the admission requirements described in chapter 2.1

Objective: Students who complete the module are expected to:

Knowledge

- Have gained knowledge and understanding of the role of technology, innovation, and change in businesses
- Have gained knowledge about innovation and technology management in established businesses
- Have gained knowledge about incremental innovation and continuous improvement
- Have gained insight into disruptive and radical innovation
- Have gained knowledge about entrepreneurship, including corporate entrepreneurship, corporate venturing, the pitching of a new idea and business planning
- Have gained knowledge about organisational change strategies and process models
- Have gained insight into organising for change (including aspects for culture, power and politics)
- Have gained knowledge about leading change
- Have gained knowledge about enablers and disablers of change.

Skills

- Be able to understand the characteristics and drivers of innovation and change, as well as the practical means of handling them in an engineering business context
- Be able to understand the range, scope and complexity of challenges related to the management of technology, innovation and change
- Be able to describe, analyse and redesign innovation- and change management processes
- Be able to identify and analyse the field of innovation and change management including the value position of stakeholders; customers, suppliers and other network partners
- Be able to analyse and identify a variety of business models and models for innovation of business models
- Be able to design, evaluate and audit the innovative capabilities and change management of a business organisation
- Be able to apply principles of business model innovation and risk management to suggest redesign and improvement of business models.

Competencies

- Be able to design and evaluate innovation- and change management
- Be able to realise and implement innovation- and change management initiatives, including the implementation and design innovation- and change management processes in projects, companies and networks of companies, as well as relating practical innovation- and change management experiences to conceptual understanding of innovation leadership and change management.

Type of instruction: The module is carried out via lectures, discussions and cases (see chapter 3).

Exam format: Internal, oral/written examination (for further information, please see the programme's study guide).

Evaluation criteria: Are stated in the Framework Provisions.

3.4.4 Strategy, Organisation and Market Creation (5 ECTS)

Title: **Strategy, Organisation and Market Creation**

(Strategi, organisation og markedsskabelse)

Prerequisites The student must meet the admission requirements described in chapter 2.1

Objective: Students who complete the module are expected to:

Knowledge

- Have gained insights into different concepts for strategy and their significance for the firm's ability to seize opportunities and create new markets.
- Have knowledge about possible strategies in the global organisation
- Have knowledge about possible organizational designs in the global organisation
- Have knowledge about the possible configuration of innovative business models and understanding their importance for businesses
- Have knowledge about the challenges in the development of global markets and their possible solutions.
- Have knowledge about current trends influencing the contemporary organisation.

Skills

- Be able to understand the characteristics and drivers of market creation and development, as well as the practical means of handling them in an engineering business context
- Be able to understand the range, scope and complexity of challenges related to the management in creating and realizing global markets
- Be able to work with different organizational set-ups and configurations in the global organization and be able to understand their importance for market and business creation.
- Be able to configure and design global networks and value chains for market creation and realization.
- Be able to understand the complexities involved in creating global markets.

Competencies

- Be able to design and evaluate the strengths and weaknesses of different organisational configurations (including network structures) and their possible contributions for the creation of global markets.
- Be able to craft strategies for market creation in the global firm

Type of instruction: The module is carried out via lectures, discussions and cases (see chapter 3).

Exam format: Internal, oral/written examination (for further information, please see the programme's study guide).

Evaluation criteria: Are stated in the Framework Provisions.

3.4.5 Media Management, Micro (5 ECTS)

Title: **Media Management, Micro**

                     (Medieledelse, mikro)

Prerequisites   The student must meet the admission requirements described in chapter 2.1.

Objective: Students who complete the module are expected to have:

Knowledge

- A coherent and profound knowledge of how and why media firms organise their creative processes in particular ways and how they can be improved including how users might be integrated
- Insight into project management in media firms including their industry specific differences
- Knowledge of IP and contractual issues of relevance for media firms including Creative Commons.
- Knowledge about technological convergence and the related managerial challenges media firms face
- Insights in strategic accounting management

Skills

- Developed skills to evaluate the organization of creative practises in media firms and argue for specific choices in connection to improvement of and changes in the organization of the creative processes
- Developed relevant skills to apply theories and methods to assess implications of IP rights and contracts incentive structures for the firms' choice of strategy.
- Developed skills to identify and implement options for reorganisation and improvements in the context of global operations.

Competencies

- Be able to discuss the complex of problems associated with organization and improvement of creativity in media firms and suggest alternatives
- Develop abilities to account for IP rights and their implications for media firms
- Be able to read and use financial accounts for strategic choices in media firms.

Type of instruction: The learning objectives are realised via lectures, discussions and case work (see chapter 3).

Exam format: Internal oral/written examination (for further information, please see the programme's study guide).

Evaluation criteria: Are stated in the Framework Provisions.

3.4.6 Management Systems (5 ECTS)

Title: **Management Systems**

                      (Ledelsessystemer)

Prerequisites   The student must meet the admission requirements described in chapter 2.1

Objective: Students who complete the module are expected to:

Knowledge

- Have gained knowledge and understanding different management systems and processes in the global organization – Including
  - Knowledge management systems
  - Financial systems with a special emphasis on the evaluation of new innovative ideas
  - Different perspectives for analysing the business system (for example the balanced scorecard)
  - Business Intelligence systems
  - Project management systems
  - Market intelligence systems
- Have knowledge about the key components of management systems such as decision support systems, information systems and databases.
- Have knowledge about the role of IT-systems in the global organization
- Have knowledge about technology as a key enabler in the global organisation.

Skills

- Be able to understand the significance of management systems for the effective and efficient management in the global organisation
- Be able to evaluate a business system or idea in a structured and systematic manner
- Be able to access the role and significance of IT-systems in the global organisation.

Competencies

- Design and create analytical frameworks for the assessment of business ideas and systems using multiple perspectives
- Reflect on the appropriate design of management systems in the global organisation.
- Integrate technological considerations into the design of management systems.

Type of instruction: The module is carried out via lectures, discussions and cases (see chapter 3).

Exam format: Internal, oral/written examination (for further information, please see the programme's study guide).

Evaluation criteria: Are stated in the Framework Provisions.

3.5 3rd semester

3.5.1 Media Management (30 ECTS)

Title: **Media Management**

             (Medieledelse)

Prerequisites: 2nd semester of the Master of Science and Technology programme in Operations and Innovation Management with specialisation in Media Management.

Goal: Students who complete the module are expected to:

Knowledge

- Have gained knowledge and understanding of theoretical reflective work in the context of media firms/industries
- Have gained insight into management and/or growth of media firms/industries as well as insights into the practical organization of content production.

Skills

- Be able to describe the problem solved and the criteria applied for its solution
- Be able to evaluate the concepts, theories and methodologies applied in the solution of the problem
- Be able to account for the choices made during the solution of the problem, and to substantiate that these are made on a high professional level
- Be able to assess the limitations of the concepts, theories and methodologies applied in the solution of the problem.

Competences

- Be able to analyse and solve an actual problem of relevance for media firms/industries through application of systematic research and development processes.

Organisation: Dependent on the student's choice of content and organisation of the semester, the student may choose between project work at Aalborg University and voluntary internship at a company (projektorienteret forløb) in Denmark or abroad. The total work load of the semester must be equivalent to 30 ECTS. If carried out at Aalborg University, the project may be finalised with a project report or in the form of a scientific paper (Videnskabelig Artikel). If continued on the 4th semester, the project is evaluated with a midterm evaluation. For further information about the

organisation of the module, please see the Framework Provisions, chapter 9.4.1., and the programme's study guide. The internship or course portfolio should contain hands on experience with media content production or organising content production. If this is not the case and the student does not have prior approved study activities concerned with content production the student is responsible for taking a course in content production or submitting an extra report on managing content production. Alternative courses or the report should equate a work load of 5 ECTS (included in the total work load of 30 ECTS).

Teaching Method: Dependent on student's choice of content and organisation of the semester;

- If the semester is carried out as an internship, the student is included in the company's daily work. Concurrent to the work in the company, the student makes a report which is evaluated after ending the internship
- The project work is carried out as an independent work process in which the students themselves organise and coordinate their workload in collaboration with a supervisor. The project may be carried out individually or in groups.

Form of examination: internal, oral examination based on a written report (for further information, please see the programme's study guide).

Evaluation criteria: As stated in the Framework Provisions.

3.5.2 Operations and Innovation Management (30 ECTS)

Title:	**Operations and Innovation Management**
	(Værdikæder og innovationsledelse)
Prerequisites:	2nd semester of the Master's programme in Operations and Innovation Management with specialisation in Global Management or the like.
Goal:	Students who complete the module are expected to:

Knowledge

- Have gained knowledge and understanding of theoretical reflective work
- Have developed an understanding of the role of technology in global organisation.

Skills

- Be able to describe the problem solved and the criteria applied for its solution
- Be able to evaluate the concepts, theories and methodologies applied in the solution of the problem
- Be able to account for the choices made during the solution of the problem, and to substantiate that these are made on a high professional level
- Be able to assess the limitations of the concepts, theories and methodologies applied in the solution of the problem.
- Can combine technological insights with market and business related considerations in the design of innovative business systems and value chains.

Competences

- Be able to analyse and solve an actual problem of industrial relevance through application of systematic research and development processes, including advanced analytical, experimental, and/or numerical methods and models.
- Can give emphasis to the creative deployment and importance of technologies in the creation of global business systems and value chains.

Organisation:	Dependent on the student's choice of content and organisation of the semester, the student may choose between project work at Aalborg University and voluntary internship at a company (projektorienteret forløb) in Denmark or abroad. The total work load of the semester must be equivalent to 30 ECTS. If carried out at Aalborg

University, the project may be finalised with a project report or in the form of a scientific paper (Videnskabelig artikel). If continued on the 4th semester, the project is evaluated with a midterm evaluation. For further information about the organisation of the module, please see the Framework Provisions, chapter 9.4.1., and the programme's study guide.

Teaching Method: Dependent on student's choice of content and organisation of the semester;
- If the semester is carried out as an internship, the student is included in the company's daily work. Concurrent to the work in the company, the student makes a report which is evaluated after ending the internship;
- The project work is carried out as an independent work process in which the students themselves organise and coordinate their workload in collaboration with a supervisor. The project may be carried out individually or in groups.

Form of examination: internal, oral examination based on a written report (for further information, please see the programme's study guide).

Evaluation criteria: As stated in the Framework Provisions.

3.6 4th Semester - Thesis

3.6.1 Master's Thesis in Media Management (30 ECTS)

Title: **Master's Thesis**

(Kandidatspeciale)

Prerequisites: Successful conclusion of the first three semesters of the Operations and Innovation Management with specialisation in Media Management programme. Exemptions to this rule may be given, but only by decision of the Study Board of Industry and Global Business Development.

Goal: Students who complete the module are expected to:

Knowledge

- Have attained thorough understanding of the specialisation's subject areas.

Skills

- Be able to apply scientific methodology to solving a wide variety of problems within the field of specialisation
- Be able to perform scientific work in relevant topics of the field of the specialisation
- Be able to apply a wide range of engineering methods in research and development projects in the field of specialisation
- Be able to participate in or lead projects within the fields of the specialisation.

Competences

- Be able to work independently with a project on a specific problem within their field of interest on the highest possible level within their specialization in media management.
- Be able to take part in both discipline-specific and interdisciplinary cooperation.

Teaching Method: In this module, the Master's Thesis is carried out. The module constitutes independent project work and concludes the programme. Within the approved topic,

the Master's Thesis must document that the level of the programme has been attained.

Form of examination: Oral examination with participation of an external examiner.

Evaluation criteria: As stated in the Framework Provisions.

3.6.2 Master's Thesis in Global Management (30 ECTS)

Title: **Master's Thesis**

                (Kandidatspeciale)

Prerequisites: Successful conclusion of the first three semesters of the Operations and Innovation
                Management with specialisation in Global Management programme. Exemptions to
                this rule may be given, but only by decision of the Study Board of Industry and Global
                Business Development.

Goal: Students who complete the module are expected to:

Knowledge

- Have attained thorough understanding of the specialisation's subject areas.

Skills

- Be able to apply scientific methodology to solving a wide variety of problems
  within the field of specialisation
- Be able to perform scientific work in relevant topics of the field of the
  specialisation
- Be able to apply a wide range of engineering methods in research and
  development projects in the field of specialisation
- Be able to participate in or lead projects within the fields of the specialisation.

Competences

- Be able to work independently with a project on a specific problem within their
  field of interest on the highest possible level within their specialisation
- Be able to take part in both discipline-specific and interdisciplinary cooperation.

Teaching Method: In this module, the Master's Thesis is carried out. The module constitutes
                independent project work and concludes the programme. Within the approved topic,
                the Master's Thesis must document that the level of the programme has been
                attained.

Form of examination: Oral examination with participation of an external examiner.

Evaluation criteria: As stated in the Framework Provisions.

Chapter 4: Entry into Force, Interim Provisions and Revision

The curriculum is approved by the Dean of the Faculty of Engineering and Science and enters into force as of September 2012.

Students who wish to complete their studies under the previous curriculum from 2011 must conclude their education by the summer examination period 2015 at the latest, since examinations under the previous curriculum are not offered after this time.

In accordance with the Framework Provisions and the Handbook on Quality Management for the Faculty of Engineering and Science at Aalborg University, the curriculum must be revised no later than five years after its entry into force.

Chapter 5: Other Provisions

5.1 Rules concerning Written Work, including the Master's Thesis

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

The Board of Studies 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.[9] If it is written in English, the summary must be in Danish.[10] The summary must be at least one page and maximum two pages. The summary is included in the evaluation of the project as a whole.

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[9] Or another foreign language (upon approval from the Board of Studies).
[10] The Board of Studies can grant exemption from this.

5.2 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

In the individual case, the Board of Studies can approve successfully completed (passed) programme elements from other Master programmes in lieu of programme elements in this programme (credit transfer). The Board of Studies 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 Board of Studies based on an academic assessment. See the Framework Provisions for the rules on credit transfer.

5.3 Rules for Examinations

The rules for examinations are stated in the Examination Policies and Procedures published by the Faculty of Engineering and Science on their website.

5.4 Exemption

In exceptional circumstances, the Board of Studies 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.

5.5 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.

5. 6 Completion of the Master Programme

The Master's programme must be completed no later than four years after it was begun.

5. 7 Rules and Requirements concerning the Reading of Texts in Foreign Languages and a Statement of the Foreign Language Knowledge this Assumes

It is assumed that the student is able to read academic texts in modern Danish, Norwegian, Swedish and English and use reference works, etc., in other European languages.

5.8 Revision of the curriculum

The curriculum has been revised in November 2014. The Danish designation cand.scient.techn. i værdikæder og innovationsledelse has changed to cand.tech. i værdikæder og innovationsledelse.