

The Faculty of Engineering and Science The Study Board of Industry and Global Business Development

Curriculum for the MSc Programme in **Operations and Management Engineering** (cand.polyt.)

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The Faculty of Engineering and Science
The Study Board of Industry and Global Business Development

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Aalborg University 2015

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 Management Engineering is stipulated. The programme also follows the Framework Provisions and the Examination Policies and Procedures for the Faculties of Engineering, Science and Medicine.

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Chapter 1: Legal Basis of the Curriculum, etc.

1.1 Basis in Ministerial Orders

The Master's programme in Operations and Management Engineering is organised in accordance with the Ministry of Science, Technology and Innovation's Ministerial Order no. 1520 of December 16, 2013 on Bachelor's and Master's Programmes at Universities (the Ministerial Order of the Study Programmes) and Ministerial Order no. 670 of June 19, 2014 on University Examinations (the Examination Order) with subsequent changes. 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.

1.2 Faculty Affiliation

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

1.3 Board of Studies Affiliation

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

1.4 Body of External Examiners

The Master's programme falls under the External Examiner Corps of higher education of engineering (mechanical engineering).

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

2.1 Admission

Admission to the Master's programme in Operations and Innovation Management requires a Bachelor degree in Manufacturing and Operations Engineering (AAU) (retskrav), Global Business Engineering (AAU) (retskrav), Diplomingeniør – Eksportteknologi (AAU), Diplomingeniør – Industri og Produktion (AAU), Diplomingeniør – Eksport (IHK), Diplomingeniør - Global Business Development (VIA), or the like.

2.2 Degree Designation in Danish and English

Students completing the Master's programme are entitled to the Danish designation civilingeniør, cand.polyt. i værdikæder og teknisk ledelse. The English designation is: Master of Science (MSc) in Engineering (Operations and Management Engineering).

2.3 The Programmes' Specification 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.

2.4 Competence Profile in the Diploma

The following competence profile will appear in the diploma:

A graduate of the Master's programme has competencies acquired through an educational programme that has taken place in a research environment. The graduate of the Master's programmes 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's 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

The graduate of the Master programme exhibits the following characteristics:

Knowledge

- Have knowledge (based on the highest level of international research) within the domain of management engineering in the global organization in selected areas such as
 - o Technology development and deployment in global supply and value chains
 - Systems and process design and engineering in global supply and value chains
 - o Use of technologies for the control and management of supply and value chains
 - o Organizational design and development
 - o Innovation, implementation and change management from an engineering perspective
- Understand the principles of the above-mentioned areas, can reflect upon their knowledge in these areas at a scientific level, and use their knowledge to identify problems and solutions using technology and an engineering approach as central means for this.

Skills

- Excel in Analysing Complex Business Problems and Designing New Innovative Business systems and solutions by applying scientific methods and tools and general skills related to problem solving and systems design using technologies and an engineering approach within the domain of Global Operations and Innovation Management
- Are able to evaluate and select among scientific theories, methods, tools and general skills used for the conception, design, implementation and operation of global value chains, supply chains and business systems and participate in the development and implementation of novel and innovative technology-based concepts, systems and solutions
- Can apply theories, methods and concepts in different organizational and empirical settings in order to solve complicated technical problems in a societal context
- Can communicate research-based knowledge and discuss professional and scientific problems within the domain of global management with both peers and non-specialists.

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 within the area of global operations and innovation management
- Can independently take responsibility for own professional development and specialisation.

Chapter 3: Content and Organisation 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. Each semester has an overall theme which serves a focal point in both modules and the project work. 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

- 1. Gain practical experience within the subject field
- 2. Analyse and reflect on educational experiences and professional practice
- 3. Clarify the Master's Thesis topic.

3.1 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).

Semester		Module	ECTS	Grading	Exam
		Supply Chain Configuration	5	7-point scale	Internal
1 st		Researching Business Systems	5	7-point scale	Internal
		Operation, Innovation and Organizational Configuration	5	7-point scale	Internal
		Operations Management and Supply Chain Configuration – an Integrative Approach	15	7-point scale	External
2 nd		Supply Chain Technologies	5	7-point scale	Internal
		Operations, Innovation and Organizational Improvement: Implementation Models and Tools	5	7-point scale	Internal
		Management Systems	5	7-point scale	Internal
		Integrating Operations Management and Supply Chain Methods	15	7-point scale	Internal
3 rd	Α	Operations and Supply Chain Management ¹	30	7-point scale	Internal
	В	Academic Internship ²	30	7-point scale	Internal
4 th		Master 's Thesis	30	7-point scale	External

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. Course activity is evaluated and tested in accordance with the curriculum in which the course module is described. See 3.4.1 ² See 3.4.1.

3.2 1st semester

3.2.0 Course in Problem Based Learning and Student Responsibilities at Aalborg University

Title:

Problem Based Learning and Student Responsibilities at Aalborg University

Prerequisites:

None, but the course is compulsory for students not acquainted to the Aalborg PBL model

Objective:

Students who complete the module should:

Knowledge:

- Have knowledge about the organization at Aalborg university and where to get help in different matters
- Have knowledge about how to communicate both in your project groups but also when attending courses
- Have comprehension for how a semester is structured and about the different examination forms we use at Aalborg University
- Have comprehension for how project work and laboratory work is carried out at Aalborg University including safety issues in the laboratory
- Have comprehension for issues concerning plagiarism and the consequence when doing plagiarism
- Have knowledge about the software which are used in the study
- Have knowledge about the IT systems used and how to get started
- Have knowledge about the students counselor and what they can do

Skills:

- Be able to use problem based learning and perform group work when doing projects and courses at Aalborg University
- Be able to use Moodle i. e. for finding lecture plans, time schedules etc.

Competences

- Be able to apply the concepts, theories and methods for problem based learning and group work
- Be able to account for the considerations involved in the process of formulating project reports in practice.

Type of instruction:

Lectures, discussions and group work. The course will take place on Wednesday afternoons.

Form of examination:

Internal assessment during the course/class participation according to the rules in the Examination Policies and Procedures, Addendum to the Framework Provision of Faculty of Engineering and Science, Aalborg University. In this case the assessment is primarily based on the oral performance during the course, this means that the student has to be active during the course time and participate in discussions. The course is an integrated part of the project for those not acquainted to the Aalborg PBL model, and is a precondition for participation in the project examination. In this way there will be no diploma for the course and it will not be visible on the academic transcripts.

Evaluation criteria:

Passed/not passed as stated in the Framework Provisions

3.2.1 Supply Chain Configuration

Title: Supply Chain Configuration / Konfiguration af værdikæder

Prerequisites Students holding a bachelor degree from another university than Aalborg University

must pass the course: Problem Based Learning and Student Responsibilities at

Aalborg University, prior to sitting the exam.

Justification This course will address the key choices an organization has to make when conceiving

and designing its supply and value chain. This course is focused on the external configuration of the organizations supply and value chain in order to achieve high

levels of effectiveness.

Objectives: Upon completion of the course, the student can:

Knowledge

- Understand the common and distinguishing features of manufacturing and service supply chains
- Explain how supply chain strategy helps drive competitiveness in terms of cost efficiency, quality, delivery responsiveness, and flexibility
- Describe a supply chain strategy including location choices, outsourcing/offshoring, order to delivery choices, collaboration with supply chain partners and sustainability
- Understand the use of control and coordination technologies in manufacturing and service supply chains.
- Understand the role of various supply chain drivers and metrics

Skills

- Identify the key supply chain drivers and the role of supply chain strategy in driving firm competitiveness
- Design a supply chain strategy for manufacturing and service organizations, which achieves strategic fit with business and market requirements

Competencies

Conceive and design a supply chain strategy which includes technological opportunities and technologies

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).

3.2.2 Researching Business Systems (5 ECTS)

Title: Researching Business Systems / Studier af forretningssystemer

Prerequisites -

Justification This course has focus on the methodological approaches, tools and techniques

necessary for creating and analyzing data in the semester projects which are reliable

and valid. Focus is both on quantitative and qualitative data.

Objective: Upon completion of the course, the student can:

Knowledge

- Understand methodological approaches and tools for studying organizations and supply and value chains
- Understand and explain of the key methodological trade-offs between different scientific methods when studying organisations and supply and value chains
- Understand the key approaches to increase the quality of data collection
- Describe different methods to analyse both quantitative and qualitative data
- Explain statistical methods and technologies for structuring and analyzing large datasets including analytical approaches for handling "Big-Data"

Skills

- Identify and apply appropriate research methods necessary for analyzing and improving global business processes.
- Evaluate different strategies and approaches for data collection and analysis.
- Use statistical methods for data analysis

Competencies

- Select and operationalise appropriate quantitative and qualitative approaches to data collection and analysis
- Collect reliable and valid data.

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).

3.2.3 Operations, Innovation and Organizational Configuration (5 ECTS)

Title: Operations, Innovation and Organizational Configuration / Konfigurering af produktion, innovation og organisation

Prerequisites

Justification This course has an internal focus and is thus looking inward in the organization. This

course addresses the key strategic choices an organization has to make in order to conceive and design an effective internal configuration with regard to operation and

innovation. The course also acknowledges that this takes place within and organizational context which must be understood and taken into account.

Objective: Upon completion of the course, the student can:

Knowledge

- Understand key structural and infrastructural choices within the design of manufacturing and service systems
- Explain of the role of technology in design of an operations strategy
- Describe key organizational design options in connection with creating an effective organization
- Understand key strategic choices and trade-offs within operations and innovation strategy design.

Skills

- Evaluate the strategic role of operations and innovation for the value creation and competitiveness of the firm.
- Analyze the role of technologies in the operations and innovation processes within the firm and conceive ways in which technologies can be applied in these processes.
- Analyze an organizational context focusing on the alignment between the organizational configuration and key operations or innovation choices.

Competencies

- Conceive and design an operations and innovation strategy aligned with the organizational context for manufacturing and service organizations, which achieves strategic fit with business and market requirements
- Conceive and design an operations and innovation strategy which makes use of technological opportunities and technologies

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

chapter 3).

Exam format: Oral/written examination (for further information, please see the programme's study

guide).

3.2.4 Operations Management and Supply Chain Configuration – an integrative approach (15 ECTS)

Title: Operations Management and Supply Chain Configuration – an integrative approach /

Konfigurering af produktionssystemer og værdikæder – en integrativ tilgang

Prerequisites

Justification This project module attempt to integrate the external perspective from the course

"supply chain configuration" with the internal perspective from the course "operations, innovation and organizational configuration" – in order to create consistent and coherent configuration of the supply and value chain of a

manufacturing or service organization.

Objective: Upon completion of the project module, the student can:

Knowledge

- Account for how to link selected parts of operations, innovations and supply chain strategies with the aim of developing an integrated approach to the (re)configuration of the supply chain of an manufacturing or service organization in practice.
- Understand the role for and the deployment of technologies in the organization's supply chain
- Explain how to overcome real life challenges connected to the (re)configuration of the organization's supply chain.
- Show how to operationalize theoretical contributions to practical settings.

Skills

- Combine insights from the literature on operations, innovation and supply chain strategy for designing a company's supply chain.
- Use insights from the literature to support supply chains management choices such as network configuration, degrees of integration and location methods
- Analyse the role of technologies in the organizations supply chain
- Write a well-structured project report, written with clear arguments including the following elements:
 - o Develop and delimit an original formulation of the problem being investigated,
 - Critically explore and apply relevant theories and analytical approaches to the problem under investigation,
 - Assemble and process valid and reliable data, relevant to the problem and sub-problems under scrutiny,
 - Make a thorough, systematic, and comprehensive analysis of the problem under investigation
- Evaluate of the findings and recommendations/solutions, methods and, if relevant, considerations regarding the limitations and generalisability of the study.

Competencies

Operationalize theoretical contributions in a practical setting

- Work together as a team to analyse and collect data in connection to problems that require an integration of operations, innovation and supply chain strategy in a real life setting
- Work together with an organisation in connection to identifying operations and/or supply chain strategies and identify different strategic scenarios.
- Integrate considerations on the deployment of technologies into the supply chain strategy of the organization

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: Oral examination based on a written report.

3.3 2nd semester

3.3.1 Supply Chain Technologies (5 ECTS)

Title: Supply Chain Technologies / Teknologier i værdikæden

Prerequisites Supply Chain Configuration

Justification This course focuses on the technological opportunities and solutions which is

necessary to implement and operate an efficient supply or value chain for a

manufacturing or service organization.

Objective: Upon completion of the module, the student can:

Knowledge

- Account for key analytical techniques and methodologies used for developing decision support systems for supply chain (for example. econometric methods, optimization, simulation and heuristics)
- Explain the role of technology enabled decision support in demand forecasting, sourcing planning, supply chain network design, capacity planning, network master planning, production planning and scheduling, inventory management, logistics planning and distribution planning
- Understand the significance of analytical techniques in supply chain planning
- Understand how to analyze supply chain processes and identify opportunities for improvement
- Understand technology requirements and evaluate possible technology and analytical options for supply chain planning

Skills

- Map supply chain processes and identify areas for improvement.
- Evaluate possible technology and analytical options for supply chain planning
- Design effective technology enabled decision support systems for efficient supply chains

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

Exam format: Oral/written examination (for further information, please see the programme's study

guide).

3.3.2 Operations, Innovation and Organizational Improvement: implementation models and tools

Title: Operations, Innovation and Organizational Improvement: implementation models

and tools / Forbedring af produktion, innovation og organisation:

Implementeringsmodeller og –værktøjer

Prerequisites Operations, Innovation and Organizational Configuration

Justification The course focuses on how process improvement can be carried out in practice.

Furthermore, in continuation of this, the course also focuses on how an organization can implement new processes and systems with success and in a way which creates

value for the organization and key stakeholders.

Objective: Upon completion of the course, the student can:

Knowledge:

- Account for different process improvement methodologies and techniques in order to create efficient processes in the organization
- Explain how an organization can deploy technologies in the improvement and innovation processes of the organization
- Explain how to create, manage and implement technological and organizational changes within
 an organization including knowledge about how to manage technological change projects
 within an organization.
- Understand the challenges involved in implementing technological changes in an organization taking the organizational context into consideration

Skills:

- Evaluate and assess the need for improvement in key business processes in the organization
- Design or and re-design organizational and business processes in a manufacturing or service organization.
- Analyze the multifaceted challenges in connection with implementing technological innovations and process changes in an organization
- Design and plan efficient implementation processes of technological change in manufacturing or service organisations

Competences:

• Improve existing organizational and business processes using technologies and engineering methods in an manufacturing or service organization

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

Exam format: Oral/written examination (for further information, please see the programme's study

guide).

3.3.3 Management Systems (5 ECTS)

Title: Management Systems / Ledelsessystemer

Prerequisites Operations, Innovation and Organizational Configuration, Supply chain Configuration

Justification The core idea in this course is to allow the students to work core business functions,

processes and systems. Furthermore, the students should be able to improve these core business functions, processes and systems in a structured and systematic

manner.

Objective: Upon completion of the module, the student can:

Knowledge

 Understand inter-relationships between business functions like R&D, internal operations and logistics and supply chain management

- Describe methods to assess the financial implications of decisions within core business functions
- Explain the possibilities to conduct risk management at functional and organizational level
- Understand the differences between functional and organizational performance management systems
- Account for cross-functional linkages between business functions for the efficient management in the global organization

Skills

- Identify improvement opportunities involving multiple functions in an organization and partners across the supply and value chain
- Evaluate suggestions for improvements across core business functions and across the supply and value chain in a structured and systematic manner
- Analyze the sources of risks across functions
- Configure functional and organizational performance management systems

Competencies

- Design efficient processes in logistics, supply chain, and new product development systems ensuring cross-functional integration, risk management.
- Develop a holistic performance management systems for individual functions and overall organization by understanding the impact of functional performance measures on overall corporate performance

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

Exam format: Oral/written examination (for further information, please see the programme's study

guide).

3.3.4 Integrating Operations Management and Supply Chain Methods (15 ECTS)

Title: Integrating Operations Management and Supply Chain Methods / Integration af

produktions og værdikæde metoder

Prerequisites The student must have followed the 1st semester of the Operations and

ManagementEngineering.

Justification The idea in this project module is for the students to work with problems related to

establishing the link between operations management technologies, techniques and tools with an internal focus with external supply chain methods with the aim of developing data driven, efficiency and technology oriented solutions for a

manufacturing or service organization

Objective: Upon completion of the module, the student can:

Knowledge

• Describe how different methods and techniques can be applied in combination to increase the efficiency of the organization and its processes.

- Understand to role of technology as a key element in making organisations more efficient
- Explain how a manufacturing or service organization operations, innovation and supply chain strategy affects which tools are most applicable and/or relevant.

Skills

- Combine operations management and supply chain methods and demonstrate the solutions
 contribution to enhancing the efficiency of the company by applying practical tools from operations
 management and from the supply chain literature.
- Write a well-structured project report, written with clear arguments including the following elements:
 - o Develop and delimit an original formulation of the problem being investigated,
 - Critically explore and apply relevant theories and analytical approaches to the problem under investigation,
 - Assemble and process valid and reliable data, relevant to the problem and sub-problems under scrutiny,
 - Make a thorough, systematic, and comprehensive analysis of the problem under investigation
- Evaluate the findings and recommendations/solutions, methods and, if relevant, considerations regarding the limitations and generalisability of the study.

Competencies

- Work together as a team to analyse and collect data in connection to problems that require an
 integration of operations management and supply chain management in practice
- Work together with a manufacturing or service organisation and to identify operations and/or supply chain management problems and finally develop data driven and robust solutions using technologies.
- Operationalize theoretical contributions in a practical setting

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: Oral examination based on a written report.

3.4 3rd semester

3.4.1 Operations and Supply Chain Management (30 ECTS)

Title: Operations and Supply Chain Management / Produktions- og værdikædeledelse

Prerequisites: 1st and 2nd semester of the MSc in Operations and Innovation.

Justification: The 3rd semester can take different forms:

A traditional semester, that is, a combination of courses and a project. Course
activity is evaluated and tested in accordance with the curriculum in which the
course module is described.

• Academic Internship. Concurrent to the work in the company, the student makes a report which is evaluated after ending the internship.

Objective: Upon completion of the module, the student can:

Knowledge

• Deep knowledge of the subject matter in the specific area of the project

Skills

- Evaluate the concepts, theories and methodologies applied in the solution of the problem
- Account for the choices made during the solution of the problem and substantiate that these are made on a high professional level
- Assess and evaluate the limitations of the concepts, theories and methodologies applied in the solution of the problem.
- Plan, execute and report an extensive individual research project within an agreed time frame
- Write a well-structured project report, written with clear arguments including the following elements:
 - o Develop and delimit an original formulation of the problem being investigated,
 - Critically explore and apply relevant theories and analytical approaches to the problem under investigation,
 - Assemble and process valid and reliable data, relevant to the problem and sub-problems under scrutiny,
- Make a thorough, systematic, and comprehensive analysis of the problem under investigation
- Conduct technological development and research, and solve complicated technical problems using scientific methods

Competences

- 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.
- Work together with a manufacturing or service organisation and to identify operations and/or supply chain management problems and finally develop data driven and robust solutions using technologies.
- Operationalize theoretical contributions in a practical setting
- Compare and critically evaluate the results of the project in relation to existing knowledge and accepted theories within the subject area
- Consider economic and other consequences of the proposed solutions
- Communicate a balanced view of the results and conclusions of the project in well-organized written and oral presentation

Form of examination: Oral examination based on a written report (for further information, please see

the programme's study guide).

3.5 4th semester

3.5.1 Master's Thesis (30 ECTS)

Title: Master's Thesis / Kandidatspeciale

Prerequisites: Successful conclusion of the first three semesters of the Operations and Innovation

Management programme. Exemptions to this rule may be given, but only by decision

of the Study Board of Industry and Global Business Development.

Goal: Upon completion of the project the student can:

Knowledge

• Deep knowledge of the subject matter in the specific area of the project

Skills

- Plan, execute and report an extensive individual research project within an agreed time frame
- Apply scientific methodology in solving a wide variety of problems within the field of specialisation
- Perform scientific work in relevant topics of the field of the specialisation
- Apply a wide range of technologies and engineering methods in research and development projects in the field of specialization
- Write a well-structured project report, written with clear arguments including the following elements:
 - o Develop and delimit an original formulation of the problem being investigated,
 - Critically explore and apply relevant theories and analytical approaches to the problem under investigation,
 - Assemble and process valid and reliable data, relevant to the problem and sub-problems under scrutiny,
 - Make a thorough, systematic, and comprehensive analysis of the problem under investigation
- Participate in or lead projects within the fields of the specialisation.

Competences

- Plan, execute and report an extensive individual research project within an agreed time frame
- Conduct technological development and research, and solve complicated technical problems using scientific methods
- Work independently with a project on a complex problem within their field of interest on the highest possible level within their specialisation
- Take part in both discipline-specific and interdisciplinary cooperation to solved complex problems

- Compare and critically evaluate the results of the project in relation to existing knowledge and accepted theories within the subject area
- Consider economic consequences and impact on society, environmental and safety issues related to the project
- Communicate a balanced view of the results and conclusions of the project in well-organized written and oral presentation

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.

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 2015.

Students who wish to complete their studies under the previous curriculum from 2014 must conclude their education by the summer examination period 2016 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.³ If it is written in English, the summary must be in Danish.⁴ 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.

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

³ Or another foreign language (upon approval from the Board of Studies).

⁴ The Board of Studies can grant exemption from this.

transfer). 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 English and use reference works, etc., in other European languages.