Curriculum for
IT Technology
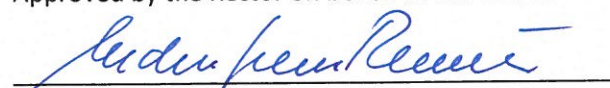
Dania Academy

Valid from 01.09.2018

Curriculum for
IT Technology at Dania Academy of Higher Education

Approved by the Rector on behalf of the Board.

Anders Graae Rasmussen

1-9-2018

Change log:

Version	Date	Performed by	Description
0.1	29-5-2018	Kurt Stæcker Jensen	Initial version – translation from danish version using the new template.
1.0	15-8-2018	Kurt Stæker Jensen	Update on basis of feedback from S. Anthony

Subject to any printing errors and changes

Table of contents

Introduction

The curriculum IT technology consist of two parts (rulebooks):

1. Part 1 - The national
2. Part 2 - The institutional

The national part of the curriculum for IT Technology is issued according to § 18, section 1 in *Bekendtgørelse om tekniske og merkantile erhvervsakademiuddannelser og professionsbacheloruddannelser* (the executive order on technical and mercantile Academy Profession programmes and professional bachelor educations). See link at the button of the document.

The national part of the curriculum is compiled by the education network for IT Technology and is approved by the board of all the providers - or by the principal by order of the board - and after a hearing of the institutions' education committees and the education's chairmanship of the external examiners.

The national part secures that the academic contents of the national part of the education is identical in all institutions.

The institutional part is provided by the education at Dania Academy and is organized taking local and regional interests into account.

The institutional part of the curriculum is approved by Dania Academy according to the rules concerning the education, including *Bekendtgørelse om tekniske og merkantile erhvervsakademiuddannelser og professionsbacheloruddannelser* (the executive order on technical and mercantile Academy Profession programmes and professional bachelor educations).

If a discrepancy should occur between this curriculum and the rules concerning the education in other respects, the other rules concerning the education takes precedence.

Time related placement of the education's subject elements

Tabel 1: Time related placement of the education's subject elements

Placement	National subject elements	Local subject elements	ECTS	Internal/ Eksternal	Name of the exam
1st semester	Network		5		
	Embedded Systems		8		
	Programming		7		
	Project management and business skills		10		
2nd semester	Network		12		
	Embedded Systems		10		
	Programmering		7	Eksternal	First year exam
3rd semester	Local element	Netværk design	10	Intern	Technology exam
	Local element	IT Projektledelse	5		
	Electives	*Electives:* • Security	15	Intern	Elective exam

		• Datacen- ter/Cloud			
4th semester	Praktik		15	Intern	Internship exam
	Afsluttende projekt		15	Eksternal	Final project exam
ECTS in total			**120**		

Part 1 - The national

1. The programme's goals for learning outcomes

Knowledge

The graduate has knowledge about:
- Communication and interface technique in general and specifically what is used in embedded and network-based solutions.
- Programming in both embedded and network-based solutions and the use of algorithms and design patterns to ensure effective interaction between hardware, network and software.
- Innovative problem-solving methods, project management of technical projects as well as general information about companies and their structure.
- Customer needs, quality and resource management as well as advisory and consultative functions for technical problem solutions
- Technologies in a broad sense, and especially concerning network, server, components and electronics.
- Security in the network as well as data management in order to understand how secure integrated solutions are designed.
- Basic parts of the technologies, including operating systems, protocols, signal handling and the use of components.
- Sustainability in IT solutions and how this can be included in IT-based solutions.

Skills

The graduate is able to:
- Evaluate technical solutions based on the needs of the company and the customer's needs.
- Communicate and document tasks and solutions.
- Use tools and equipment related to the design, development and testing of both hardware and software.
- Communicate in writing and orally concerning network technology and embedded systems
- Apply innovative approaches focusing on customer needs, in order to ensure effective solutions involving hardware, network and software.
- Use the technology and tools for the design, implementation, testing and quality assurance of secure and sustainable solutions.

Competencies
- The graduate is able to:
- Manage the interaction between hardware, software and a network in integrated solutions
- Independently handle planning and quality management of their own technical tasks
- Participate in real-life development processes for academic and interdisciplinary collaboration
- Handle customer tasks in order to convert customer needs into reliable solutions
- In a structured context, acquire knowledge, skills and new competencies by understanding companies and customers' use of IT
- Handle analysis, needs identification, design, implementation and testing of secure and sustainable solutions for network-based and integrated technologies.
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2. The programme includes 4 national subject elements

2.1. Network technology

Content
This national subject element consists of network and server technologies, operating systems, network security and communication including protocols and services. The subject element also contains design and the use of networks and network-based/cloud solutions. Generally, work is done with design, development, testing and documentation as well as the dissemination of secure and sustainable solutions.

Learning objectives for Network technology
Knowledge
The student will gain knowledge and understanding about:
- Network and server technologies overall, and the difference between physical and virtual technologies.
- Operating systems as well as the difference between different systems ⸱ data management, including security.
- Network security, including different products.
- Communication protocols and their use for different architecture.

Skills
The student will get the skills to:
- Apply network technology and hardware in connection with design, planning and implementation of complex, secure and sustainable network solutions.
- Apply network technological knowledge in connection with administration, operation and monitoring of complex network solutions.
- Communicate and document tasks and solutions within networks
- Use tools and equipment related to the design, development and testing of solutions.
- Evaluate network security in concrete products.

Competencies
The student will learn to:
- Manage analysis, needs identification, design, development and testing of secure network solutions.
- Manage planning and quality management of own network and server technology-related tasks.
- Acquire new knowledge, skills and competencies within network and server technologies.
- Participate in practice-orientated development processes in teams

ECTS weight
National subject element Network technology is worth 18 ECTS credits.

2.2. Embedded systems

Content
This national subject element contains signal handling, competent technology, communication, Internet of Things-techniques, protocols, interfacing, selection and application of embedded systems as well as components for integrated solutions. The subject element generally works with design, development, testing and documentation as well as the dissemination of secure and sustainable solutions.

Learning objectives for Embedded systems
Knowledge
The student will gain knowledge and understanding about:
- Communication and interface technique in general, as well as how they are used in selected solutions.
- An overview of electronic modules, as well as how selected modules are built up
- Protocols including communication protocols, their structure as well as what differences and uses there are.
- Internet of Things-techniques, construction generally and selected solutions in more details.
- Applied technical mathematics within the subject area to understand electronics and/or communication.
- Operating systems, their distinctive features and use.
- Ageneral understanding of signal management as well an understanding of how it is used and included in solutions.

Skills
The student will get the skills to:
- Evaluate, select, adapt and use embedded systems and components in secure and sustainable solutions
- Build and use test systems
- Document and disseminate tasks and solutions with the use of embedded components and systems.

Competencies
The student will learn to:
- Manage analysis, needs identification, design, development and testing of secure embedded and sustainable solutions
- Manage the analysis, diagnostics, testing and servicing of the technology involved in working with electronic systems, taking into account financial, environmental and quality requirements
- Acquire new knowledge, skills and competencies within the subject area
- Participate in practice-orientated development processes in teams

ECTS weight
National subject element Embedded Systems is worth 18 ECTS credits.

2.3. Programming

Content
The subject area consists of the basic elements of programming, use of environments and data handling as well as design, development, testing and documentation of solutions.

Learning objectives for Programming

Knowledge
The student will gain knowledge and understanding about:
- Programming techniques in different types of language.
- Overall algorithms and design patterns and in connection with their selected programming language.

Skills
The student will get the skills to:

- Use tools and equipment related to the design, development and testing of programmes.
- Document, disseminate and support programming-related solutions in connection with internal and customer-facing relationships.
- Evaluate and select simple algorithms for solving specific problems.

Competencies
The student will learn to:
- Acquire new knowledge, skills and competencies within programming.
- Participate in practice-orientated development processes in teams.
- Manage the design, development and testing of larger solutions in multidisciplinary cooperation.

ECTS weight
National subject element Programming is worth 14 ECTS credits.

2.4. Project management and business skills

Content
This subject element includes innovation, project management, economy, quality and resource management, advisory and consultative functions, as well as documentation and dissemination

Learning objectives for Project management and business skills

Knowledge
Knowledge The student will gain knowledge and understanding about:
- What innovation is, and how to use innovative methods in problem solving
- Project management in connection with development projects within IT.
- How a company is organised, including the parts that control the company, as well as how one can describe the economic issues overall.
- Quality and resource management as part of a development project and as part of the management of maintenance of IT operations.
- Advisory and consultative functions when IT-specialists need to understand and solve the customer's needs.

Skills
The student will get the skills to:
- Communicate in writing and orally to both professional people and customers.
- Apply innovative problem-solving methods, with a focus on customer needs.
- Evaluate the complexity of a given technical problem.

Competencies
The student will learn to:
- Handle customer tasks in order to convert customer needs into reliable solutions.
- Manage planning and control their own technical tasks as well as engage in interdisciplinary projects.
- In a structured context, acquire new knowledge, skills and competencies by understanding companies and customers' use of IT.

ECTS weight
National subject element Project management and business skills is worth 10 ECTS credits.

2.5. **The number of exams in the national subject elements**

The national subject elements in the 1st academic year are weighted 60 ECTS and are all part of the exam, which is the first-year exam. The exam has an external co-examiner, and one overall individual mark is given according to the 7-point scale.

In addition, there is an exam in the final exam project with an external co-examiner. For the number of exams in the internship, please refer to section 3.

For a comprehensive overview of all the programme's exams, please refer to the institutional part of the curriculum, as the national subject elements described in this curriculum can be examined together with the subject elements specified in the institutional part of the curriculum.

3. Internship

The internship is organised in a way that, combined with the remaining parts of the course programme, they will contribute to the student developing practical competencies. The internship aims to enable the students to use the programme methods, theories and tools in solving practical tasks in network engineering and/or integrated solutions.

Learning objectives for programme's internship

Knowledge
The student will gain knowledge and understanding about:
- The most important academic methods and technologies used in embedded systems and network solutions in a concrete company situation.

Skills
The student will get the skills to:
- Apply versatile technical and analytical methods of work related to employment within the industry.
- Evaluate practical issues and commission solutions.
- Organise and plan daily work assignments in the profession ⬚ disseminate practice-orientated issues and reasoned solutions.

Competencies
The student will learn to:
- Manage development-orientated practical and professional situations in relation to the profession and especially in relation to the internship company.
- Acquire new knowledge, skills and competencies in relation to the profession.
- Participate in disciplinary and interdisciplinary collaboration with a professional approach.

ECTS weight
The internship is worth 15 ECTS credits.

Number of exams
The internship is completed with one exam.

4. Requirements for the main exam project.

The learning objectives for the main exam project are identical to the programme's learning objectives listed above under point 1.

The main exam project must demonstrate the student's understanding of practices and centrally applied theory and methods in relation to a real-life problem, which is based upon a specific task within the programme's area. The problem statement that must be central to the programme and profession is formulated by the student, possibly in collaboration with a private or public company. The Academy must approve the problem statement.

The project, which constitutes the written part of the exam, must contain something that looks like the following:

- Front page with title
- Table of contents
- Introduction, including presentation of the problem statement, thesis statement and approaches
- Background, theory, methodology, analysis, including a description of and justification for the choice of any empirical data1, in connection with the thesis statement
- Conclusion (keep in mind that there must be coherence between the introduction and the conclusion. The two should in principle be able to be understood without reading the background and analysis sections)
- The broader perspective
- Bibliography (including all sources that have been referenced)
- Appendices (only include appendices essential to the report).

The main exam project must, as a minimum, fill 15 standard pages and as a maximum 20 standard pages. For each additional student that participates in the main exam project, the page number must be increased by a minimum of 10 standard pages and a maximum of 20 standard pages.

Group size	Minimum	Maximum
1 student	15 pages	20 pages
2 students	25 pages	40 pages
3 students	35 pages	60 pages

The front page, table of contents, bibliography and appendices do not count in the required number of pages. Appendices will not be assessed.

One standard page is 2,400 characters, which includes spaces and footnotes. This does not include front page, table of contents, bibliography and appendices. Appendices will not be assessed.

Exams for the main exam project
The main exam project completes the programme in the last semester once all the preceding exams have been passed.

ECTS weight
The main exam project is weighted 15 ECTS credits.

Examination form
The exam is an oral and written examination with an external co-examiner, a combined mark is given based on the 7-point scale for the written project and the oral presentation.

5. Rules on credit

Passed programme elements are equivalent to similar programme elements taken at other educational institutions offering this programme.

The students are obliged to inform us of any completed educational elements from another Danish or foreign higher education programme or any jobs which are likely to provide credit.

The Academy approves, in each instance, credit on the basis of completed programme elements and any jobs which meet the objectives of the subjects, the educational part and the internship parts.

The decision is taken according to an academic assessment.

For prior credit approval of studies in Denmark or abroad, students are required to document each approved and completed programme element on the completion of these studies.

In connection with applying for prior credit approval, the students give permission that the Academy can obtain the necessary information after the student's completion.

On approval according to the above, the programme element is deemed to be passed if it was passed according to the rules of the programme in question.

Part 2 – The institutional part

6. The education contains 3 local subject elements, including optional subjects

In addition to the national subject elements the education includes local subject element as well amounting to 30 ECTS points. The local subject elements give the student the opportunity to qualify the study and occupational competence through optional subjects, customization and perspectivation of subjects relating broadly to the education's area of employment.

Each year the education offers a number of local subject elements as optional subjects as described in the annex to this curriculum. The institution is not obliged to complete all the optional subject courses offered, but a suitable number of courses are completed according to a professional and capacity-related estimation.

6.1. IT development

Contents

The subject will help the student gain skills in projecting IT solutions. Knowledge and skills increase within designing projects for network design with focus on security, automation and architecture. In addition, there will be focus on hardware technologies, with specific focus on designing systems.

Learning objectives for IT development

Knowledge

The student has knowledge and understanding about:
- IT process models
- Network security

Skills

The student will get the skills to:
- Assess and communicate technical network solutions to the company and client.
- Apply network technology/hardware knowledge in connection with projecting and estimation of costs for complex solutions.
- Use knowledge from network security to analysis of network or products.

Competences

The student will learn to:
- Coordinate, ensure quality and handle resource management of implementation of network and security initiations.
- Coordinate in relation to administration, operation, monitoring, maintenance and network problem solving.

Extent of ECTS points

The subject element IT development has an extent of 5 ECTS points.

6.2. Network design

Contents

The target for the student it to build new knowledge and competence within network communication. This can be the creation of various forms of network and networks and how the security within such solutions are created.

Learning objectives for Network design

Knowledge

The student has knowledge and understanding about:

- Server technologies.
- Network security.

Skills

The student will get the skills to:

- Use knowledge from network technology in connection with design, projecting, implementation of complex network solutions.
- Use knowledge of network security for analysis of network or products.

Kompetencer

The student will learn to:

- Handle and analyse, identify requirements, present suggestions, design, prepare specification of network and security solutions in all project stages.
- Handle projecting and planning of network and security solutions.

ECTS-omfang

Fagelementet Netværk design har et omfang på 10 ECTS-point.

6.3. Optional subjects

The learning objectives for the optional subjects are described in the annex to this curriculum "Optional subjects on the IT Technology year of 2018-19".

6.4. Examinations

When a student starts a subject element, semester etc. the student is at the same time signed up for the ordinary examination. The educational institution establishes, for each examination, a deadline for when a cancellation of the examination can take place. The education institution can in the curriculum establish that compulsory attendance and handing in assignments and projects etc. are a precondition for participation in an examination. The institution may establish that a cancellation cannot take place neither for entire educations or part of educations in this curriculum.

The purpose of exams during the education is to decide to which degree the student meets the professional objectives established for the education and its elements. An education must include the external examinations required according to the relevant executive order on examination regulations. The education can in addition include internal examinations. The education must <u>as a minimum</u> include the 3 following examinations:

1. **An internal or external examination** placed **before the end of the 2nd semester** which must be able to document that the student has acquired the learning objectives concerning the 1st year of study.
2. **An internal or external examination** which is placed after the student's completion of the education's amount of **internship units** and which must be able to document that the student has acquired the learning objectives concerning the internship.
3. **An external examination** in the **final examination project** which along with the post internship examination and the education's other examinations must be able to document that the learning objectives for the education have been acquired. The examination consists of a project and an oral part where a joined mark is given. The examination can first take its place after the final examination during the internship and the education's other examinations are passed.

NB: The national and the local subject elements may be tested during the same examination.

For more information, see *Bekendtgørelse om prøver i erhvervsrettede videregående uddannelser* (The executive order on examination regulations), *Bekendtgørelse om karakterskala og anden bedømmelse ved uddannelser på Uddannelses-og Forskningsministeriets område* (The executive order on marking regulations), as well as **Dania Academy's Rules of Examinations.**

6.5. **Examinations on the diploma**

The following examinations will appear on the diploma for the education.

Placement	Examination	Subject elements	ECTS points	Evaluation	Marking scale	Weighting
2nd semester	First year exam. 1st external examination	Written assignment and oral presentation regarding first year learning objectives.	60	External	7 – point marking scale	1
3rd semester	Technology exam. 1st internal examination	Written assignment and oral presentation regarding the learning objectives for the two local subject elements.	15	Internal	7 – point marking scale	1

3rd Semester	Electives exam. 2nd internal examination	Written assignment with oral presentation regarding the learning objectives for the selected elective.	15	Internal	7 – point marking scale	1
4th Semester	Internship exam. 3rd internal examination	Written assignment taking the student's internship as a point of departure.	15	Internal	7 – point marking scale	1
	Final project exam. 2nd external examination	Written assignment with an oral presentation.	15	External	7 – point marking scale	1

6.6. Description of the examinations

First-year exam

Prerequisite requirements	All mandatory assignments must be approved.
Form	First-year exam consists of assessment activities and an individual oral exam based on a written project. The exam is an oral group exam with basis in a written group project based on the learning objectives for first and second semester. Overall these two parts are named the first-year exam. The ongoing assessment activities consists of a number of activites in the first study year. Each of these assessment activities gives a number of points that is converted to a grade that adds 80% of the 30% of the first-year grade. Attendance and participation in class is based on registration or quizzes. Attendance and quizzes gives 20% of the 30% of the ongoing activities. The student has one attempt for each test in the ongoing assessment activities. Undocumented absence or too late hand in, the student will be given the lowest score according to the table below. If the student has documented absence, maternity leave or leave a new attempt will be allowed. Concerning documented absence because of sickness, maternity leave or leave, the ongoing assessment activity part will be evaluated proportionately.

The weighting of the assessment activities follows the table below.

Grade	Percentage
12	94-100%
10	85-93%
7	75-84%
4	60-74%
02	50-59%
00	31-49%
-03	0-30%

Placement	*End of second semester.* *National part of the curriculum.*
ECTS points in total	60 ECTS points. 30% of the grade is ongoing assessment activities – This part of the first-year exam is 18 ECTS out of the total on 60 ECTS.
Contents	The exam shall demonstrate the learning objectives for the first year of study according to the national curriculum.
Description of the examination	*The test is organized in a way where the students must find a company or institution, where they can demonstrate their learning objectives through a project. This is documented with a report – that is used as foundation for the oral exam.* *There must be a maximum of 3 students in a group.*
Duration	Oral exam: There will be 15 minutes pr. student in the group. The students in the group shall make a presentation of the project where after there will be individual oral examination based on the curriculum and project. The presentation must not take more than half of the test time. It is up to the students to secure equal speaking time to each group member during the presentation.
Contents related extent (formalia)	A project report must be submitted. The project report, which constitutes the written part of the exam, must at least contain: • Front page with title, number of keystrokes, participant list • Table of Contents • Introduction, incl. presentation of problem, problem formulation and approaches • Background, theory, method, analysis • Conclusion • Bibliography • Appendix (only include attachments that are central to the report).

	Submission must be in electronic form. The project report must have a maximum of 40 standard pages for a group, regardless of group size. Group size is max 3 persons. Front page, table of contents, literature list and appendix do not count in the required number of pages. Attachment is out of review. A standard page is 2,400 characters incl. spaces and footnotes. See section 6.7 with Erhvervsakademi Dania rules.
Evaluation	One individual overall grade is given on the basis of an overall assessment of the written project report and the oral presentation. The actual exam and the ongoing assessment activities are evaluated separately. The exam and the course assessments are assessed according to the 7-point scale. A total grade is given, where the exam weights 70% and the continuous assessment activities weigh 30% of the final grade for the first year exam. In the exam, one individual overall grade is based on an overall assessment of the written and oral performance. The exam is with external examiner. In calculating the weighted average of the continuous assessment activities and the exam, the average is the minimum between two grades on the grade scale. There is no round for a total grade below 02. If the student does not pass the exam, the student must re-enroll in the project part. The criterion for the ongoing assessment activities is transferred to re-examination, whether or not the ongoing assessment activities have been passed or failed. Regardless of whether the overall rating is above or below 02.
Evaluation criteria	The assessment criteria for the exam are identical to the learning objectives for the first year of study. Learning objectives are set out in the common curriculum.
Writing and spelling skills	*If the exam project is not readable due to formulation and spelling mistakes, this may result in a lower grade.*
Language	*English*
Aids	*All aids are allowed.*
Precondition for participation in the examination	The following prerequisites apply to go to the oral part of the exam: All mandatory assignments must be approved. The written project, which forms both the assessment and the examination / test basis, shall: • Fulfill formalia • Delivered in time, cf. the Examination Plan
Deadline for cancellation	See Dania Academy's Executive order on examination regulations.

Technology exam

Prerequisite requirements	*All mandatory assignments must be approved.*
Form	*Written project*
Placement	*Third semester.*
ECTS points in total	15 ECTS points.
Contents	Learning objectives are the same as the two local course elements. • IT development • Network design
Description of the examination	Through work with a self-chosen problem related to the course objectives, a report is prepared on the subject.
Duration	*The assignment start is at least 14 days before submission.*
Contents related extent (formalia)	Formals are the same as for first year examinations.
Evaluation	*Evaluation uses the 7-point marking scale.*
Evaluation criteria	An overall assessment is made based upon the report. The assessment is based on learning objectives from the curriculum.
Writing and spelling skills	*If the project is not readable due to formulation and spelling mistakes, this may result in a lower grade.*
Language	*English*
Aids	*All aids are allowed.*
Precondition for participation in the examination	All mandatory assignments must be approved and first-year exam must be passed.
Deadline for cancellation	See Dania Academy's Executive order on examination regulations.

Elective exam

Prerequisite requirements	*All mandatory assignments must be approved.*
Form	*Written project.*
Placement	*Third semester.*
ECTS points in total	15 ECTS points.
Contents	Learning objectives for the exam are similar to the learning objectives in the elective course. See the learning objectives described in the annex to this curriculum "Optional subjects on the IT Technology year of 2018-19".
Description of the examination	Through work with a self-chosen problem related to the course objectives, a report is prepared on the subject.
Duration	*The assignment start is at least 14 days before submission.*
Contents related extent (formalia)	Formals are the same as for first year examinations.
Evaluation	*Evaluation uses the 7-point marking scale.*
Evaluation criteria	An overall assessment is made based upon the report. The assessment is based on learning objectives for the elective.
Writing and spelling skills	*If the exam project is not readable due to formulation and spelling mistakes, this may result in a lower grade.*
Language	*English*
Aids	*All aids are allowed.*
Precondition for participation in the examination	All mandatory assignments must be approved and first-year exam must be passed.
Deadline for cancellation	See Dania Academy's Executive order on examination regulations.

Internship examination

The table below concerns the concerned local provision's formal local guidelines on the completion of the internship

Prerequisite requirements	*All mandatory assignments must be approved.*
Form	The exam is arranged as a combination of a poster (A3 or larger) and an oral presentation. The poster serves as a basis for a presentation of what has been made and learned in practice. If the student is abroad (outside Denmark) – the exam can be taken as a Skype presentation for the examiner.
Placement	*At the end of 4'th semester.*
ECTS points in total	15 ECTS points.
Contents	*Learning objectives according to the national curriculum.*
Description of the examination	The student will use the poster to make an oral presentation of the learning from the internship, thereby proving the learning goals for the internship..
Duration	10 minutes are allocated for the oral presentation of the internship for each student.
Contents related extent (formalia)	*Contents related extent of any written assignments (for instance keystrokes and number of pages) or other products such as video spots etc. that may be included in the evaluation.* There must be a description of which company and project has been worked with. The student must select a product / project that has been worked on in practice. There must be information about: - Business - Project / Product - Learning & Reflection
Evaluation	*7-point scale*
Evaluation criteria	Poster and oral presentation are considered as a whole.
Writing and spelling skills	If the poster is not readable due to formulation and spelling, this may result in lower grades.
Language	*English*
Aids	*All aids are allowed.*

Precondition for participation in the examination	A thank you note has been sent to the internship host company.
	The student are to record their experiences through the internship in a diary form. This must be approved before the examination.
	The internship has been approved according to rules for internship.
Deadline for cancellation	See Dania Academy's Executive order on examination regulations.

Exam for the final exam project

The table below concerns the formal requirements in paragraph 4.

Prerequisite requirements	All exams and compulsory assignments must be passed or approved.
Form	Written assignment with oral defense.
Placement	End of 4'th semester.
ECTS points in total	15 ECTS points.
Contents	As described in the national curriculum.
Description of the examination	As described in the national curriculum.
Duration	There are 45 minutes for oral exam for each student.
Contents related extent (formalia)	As described in the national curriculum.
Evaluation	7-point scale
Evaluation criteria	As described in the national curriculum.
Writing and spelling skills	If the written assignment is not readable due to formulation and spelling, this may result in a lower grade.
Language	English
Aids	All aids are allowed.

Precondition for participation in the examination	*All assignments must be approved and completed.*
Deadline for cancellation	See Dania Academy's Executive order on examination regulations.

6.7. Make-up examination, dispensation, cheating, complaints and special examination conditions

Dania Academy has established rules and procedures regarding special conditions concerning the completion of examinations. The rules and procedures will appear from **Dania's examination regulations which the student is expected to have read at the beginning of the 1st semester.**

The exam regulations include, among other things, rules and procedures in the following areas:

- When a student may attend a make-up examination
- When the student must pass the examination
- How the student should relate to physical or psychological disability
- Examinations taken abroad
- Complaints
- Cheating, plagiarism and disruptive behaviour during examinations etc.

6.8. Compulsory attendance

At Dania Academy we regularly follow up on the study activity of our students and the fulfillment of the prerequisite requirements of the examinations.

By study activity, it is understood that participation in the teaching (K1 teaching) has been registered and that this is over 90% overall, and if this is not met, the student will be called for a conversation to clarify the reasons for this. Subsequent, the student will be called back again if the absence still exceeds 10%. If the study activity is deemed not to be acceptable, the student may be deemed not to be study active and thus excluded from participating in future examinations.

6.9. Criteria for an evaluation of study activity

Study activity is prerequisite for being entitled to the State Educational Grant and Loan Scheme (SU).

Study activity implies the student turning up for the obligatory examinations and handing in the obligatory assignments, projects etc. affiliated with the education. Furthermore, the study activity does imply that the student observes the compulsory attendance.

Mandatory assignments, projects, etc.

Mandatory assignments, projects etc. at the education must be handed in and approved so that the student can be study active and qualify for exams.

For each subject, a number of mandatory assignments or projects are to be solved in groups or individually and handed in. The scope of this must be kept within the already established workload of student activities in group work, lecture norms and structured assignment (in the K2 hours).

The content of these tasks must be adapted to the teaching and support of the learning objectives in the individual subjects. One assignment is sought per ETCS-point teaching, but this can be put together for major assignments depending on the teacher's preferences.

The teacher must professionally assess whether the assignments are resolved at a level that shows that the student has obtained an understanding of the subject to a minimum grade of 02. An assignment that will be able to obtain a grade of 02 or above is termed as approved. Mandatory assignments must be approved before the student can be admitted to the examinations.

6.10. 1st semester examination

1st semester students must participate and pass a 1st semester examination to continue on the education. The purpose of the 1st semester examination is to clarify, whether the student has actually started the education.

The 1st semester examination must be held 2 months after the beginning of the semester at the latest, and the result will be communicated to the student as passed/not passed respectively "approved" or "not approved" 2 weeks after the examination at the latest.

Has the examination not been passed, the student has the opportunity to participate in a re-examination, which will be held 3 months after the beginning of the 1st semester at the latest. The student will be given two attempts to pass the 1st semester examination. The examination is not subject to the rules in the executive order on examination regulations regarding complaints about examinations.

Should the student fail to pass the 1st semester examination the student will be expelled from the education.

Prerequisite requirements	*Accepted as a student at the education.*
Form	*Written assignmenet with internal evaluation.*

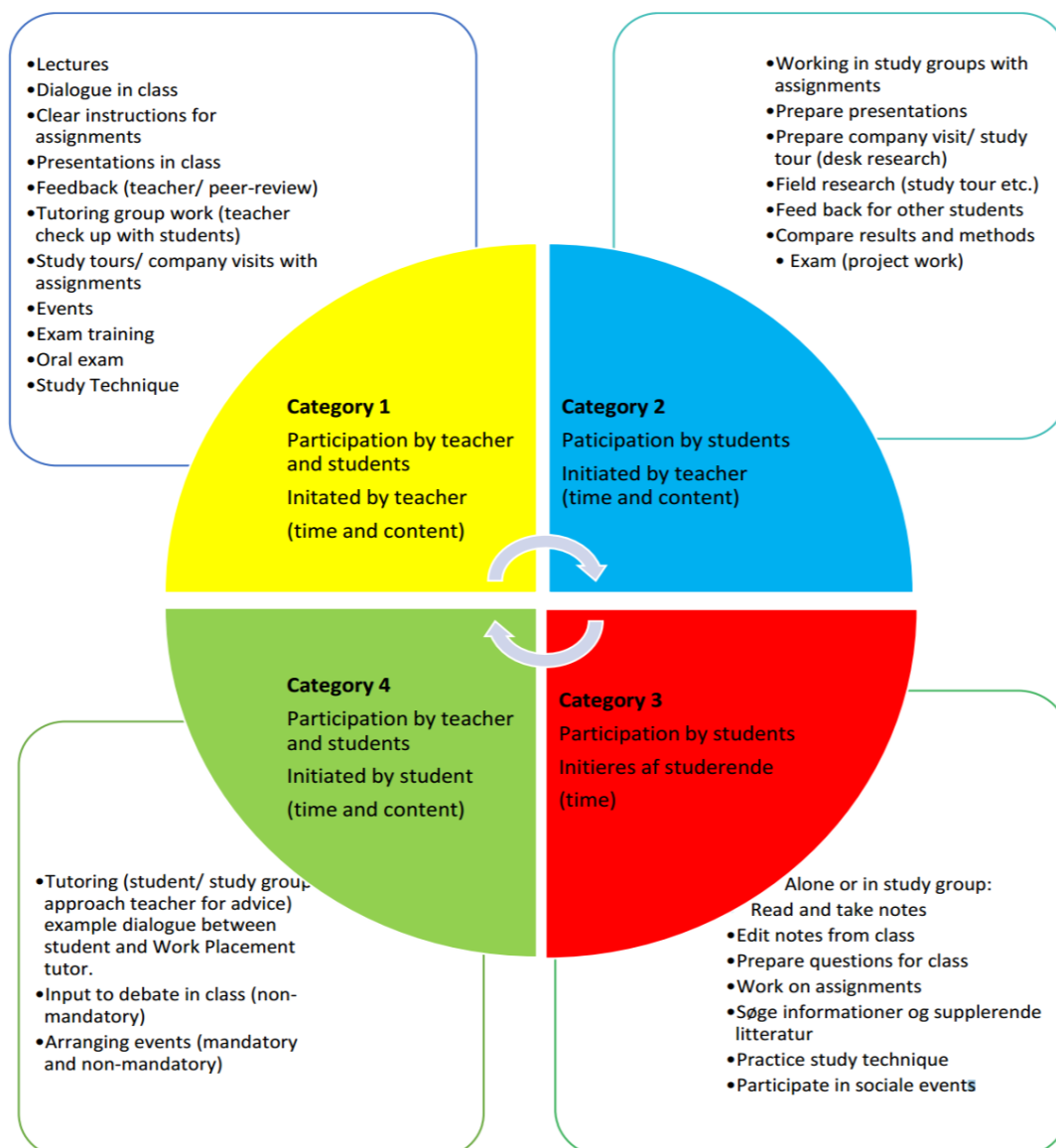| Placement	*First semester – within two months from the start.*
Contents	*The assigmnet is based upon the allready tought material.*
Description of the examination	It is a test of knowledge level within the framework of the learning objectives studied since the start of the studies.
Duration	*1 hour*
Contents related extent (formalia)	The assignment is structures as a number of questions that should be answered as best as possible. No limits on content.
Evaluation	Internal assessment - Passed / Not Passed or "Approved" or Not Approved "
Evaluation criteria	Emphasis is placed on the correct answers to the questions, and some credit is given for attempts on correct answer.
Writing and spelling skills	If the written assignment is not readable due to formulation and spelling, this may result in a lower grade.
Language	*English*
Aids	No permitted aids. Either in the form of a closed electronic environment or problem solving on paper.
Precondition for participation in the examination	*None.*
Deadline for cancellation	See Dania Academy's Executive order on examination regulations.

6.11. The study activity model

When a student starts at Dania Academy, he or she will be introduced to activities and a study programme, which may differ from what he or she has previously been introduced to elsewhere. It is expected that the effort contributed by the student is consistent with that of a fulltime occupation. The education is practice-

based, which means that besides the internship course there will continuously be held meetings with the business/profession during the education.

Many different types of activities are included in a study. Some of these will be on the student's own initiative, others will be designed by the education. Some of these the students performs themselves, either alone or in a group of fellow students, others the students will perform together with the education's teaching staff, and others again will be performed together with companies, either during the internship, or in connection with company visits, projects etc.

The education on Dania Academy is organized based on the following model for study activity, where the activities are divided into 4 categories:

• Lectures
• Dialogue in class
• Clear instructions for assignments
• Presentations in class
• Feedback (teacher/ peer-review)
• Tutoring group work (teacher check up with students)
• Study tours/ company visits with assignments
• Events
• Exam training
• Oral exam
• Study Technique

• Working in study groups with assignments
• Prepare presentations
• Prepare company visit/ study tour (desk research)
• Field research (study tour etc.)
• Feed back for other students
• Compare results and methods
• Exam (project work)

Category 1

Participation by teacher and students

Initated by teacher (time and content)

Category 2

Paticipation by students

Initiated by teacher (time and content)

Category 4

Participation by teacher and students

Initiated by student (time and content)

Category 3

Participation by students

Initieres af studerende (time)

• Tutoring (student/ study group approach teacher for advice) example dialogue between student and Work Placement tutor.
• Input to debate in class (non-mandatory)
• Arranging events (mandatory and non-mandatory)

Alone or in study group:
Read and take notes
• Edit notes from class
• Prepare questions for class
• Work on assignments
• Søge informationer og supplerende litteratur
• Practice study technique
• Participate in sociale events

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6.12. Teaching and working

The educations' knowledge base is business and profession based as well as development based. It being business and profession based involves that the education is based on new knowledge of central trends within the business or profession the education is aimed towards.

It being development based involves the education being based on new knowledge from experimental and developmental work that is relevant to the business or the profession, the education is aimed towards. The focus on the continuous development furthermore involves that the education is based on new knowledge from research units, relevant to the core areas that are constituent for the purpose and business purpose of the education.

Teaching Methods

It is up to the individual teachers to organize the teaching as best as possible with regard to the best possible learning outcomes. Thus, different approaches to the teaching can occur. Basically, teaching will be team-based, focusing on lectures and dialogue lessons followed by exercises and group work.

As far as possible there will be invited guest teachers from home and abroad who have practical experience from acquired or theoretical knowledge. Therefore, we will visit companies to see how problems are tackled in the industry. Case-based teaching with input from companies must also be expected in this context.

Materials will be introduced through online courses, and this will be expanded continuously so that it becomes a supportive form of learning so that practical cases and exercises can be used more when there is K1 teaching. The teachers will thus have a more coach / guiding role in relation to the learning.

6.13. Parts of the education that can be completed abroad

The education is thus organized that the student may complete parts of the education abroad within the prescribed period of study.

6.14. Rules on credit - the institutional part

The Rules for credit in the institutional part follow the rules on credit in the national part, see above.

6.15. Credit between the higher educations

Some Academy Profession programmes offer the possibility for credit, if you apply for certain undergraduate programmes. It may be both special credit courses, or credit during the ordinary courses, meaning you may start the courses later, for instance the 2nd year of study, or that you may skip some of the subjects during the education.

For further reading, see:

https://www.ug.dk/uddannelser/artikleromuddannelser/merit/merit-mellem-de-videregaaende-uddannelser

or contact the educational guidance counsellor for further relevant information.

6.16. Leave of absence

A student may take a leave of absence from the education for personal reasons. Further information on leave of absence, and the regulations on the student taking a leve of absence are to be found in the *executive order on admission to Academy Profession programmes and professional bachelor educations*.

6.17. Dispensation

The institution may, when it deems it justified because of unusual conditions, choose to grant dispensation from the regulations in the curriculum that are laid down by the institution or the institutions alone. The institutions cooperate on a uniform dispensation practice.

6.18. Foreign languages

The majority of the education's teaching material is in English, and parts of the education may be taught in Danish.

No further knowledge in foreign languages is required, other than what is described in the executive order in admission.

6.19. Current legislation

https://ufm.dk/lovstof/gaeldende-love-og-regler/uddannelser/erhvervsakademiuddannelser

7. Commencement and transitional schemes

This part of the national curriculum is valid from 1.08.2018 and is valid for students who are enrolled after 1.09.2018.

The newest version of the curriculum can be found on www.eadania.dk in the IT Technology section.