Dania – Academy of Higher Education

Curriculum for IT Technology – common part

Academy Profession Degree Programme (AP)
CONNUENT

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The present curriculum consists of the common part of the Academy Profession (AP) programme for IT Technology (in Danish IT-Technology AK), Act no. 916 of 25th September 2009. Link to the executive order: https://www.retsinformation.dk/Forms/R0710.aspx?id=127260
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1. Structure of the programme

<table>
<thead>
<tr>
<th>Subject areas</th>
<th>1st Year</th>
<th>2nd Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic systems</td>
<td>7,5 ECTS</td>
<td>7,5 ECTS</td>
</tr>
<tr>
<td>Network technology systems</td>
<td>7,5 ECTS</td>
<td></td>
</tr>
<tr>
<td>Software development</td>
<td>5 ECTS</td>
<td></td>
</tr>
<tr>
<td>Company</td>
<td>10 ECTS</td>
<td></td>
</tr>
<tr>
<td>Electronic systems</td>
<td>20 ECTS</td>
<td></td>
</tr>
<tr>
<td>Embedded systems</td>
<td>20 ECTS</td>
<td>5 ECTS</td>
</tr>
<tr>
<td>Network technology systems</td>
<td>25 ECTS</td>
<td>10 ECTS</td>
</tr>
<tr>
<td>Advisory and consultancy functions</td>
<td>5 ECTS</td>
<td>5 ECTS</td>
</tr>
<tr>
<td>Optional elements</td>
<td></td>
<td></td>
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<tr>
<td>Practical Training</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final examination project</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total ECTS</td>
<td>60 ECTS</td>
<td>60 ECTS</td>
</tr>
</tbody>
</table>

Common for both study directions

2. Subject areas

Common for both study directions
1. Electronic systems (7,5 ECTS)
2. Communications technology systems (7,5 ECTS)
3. Company (10 ECTS)
4. Software development (5 ECTS)
Total 30 ECTS.

For Study direction Electronics
1. Electronic systems (20 ECTS)
2. Embedded systems (25 ECTS)
Total 45 ECTS.

For study direction Network
1. Network technology systems (35 ECTS)
2. Advisory and consultancy functions (10 ECTS)
Total 45 ECTS.

2.1 Subject area Electronic systems (common for both study directions)

Content
The objective is for the student to acquire new knowledge and skills within electronic systems, such as basic electronics, interface, technical mathematics and embedded systems, as well as the ability to use up-to-date
tools and equipment in connection with development and testing. Finally the subject area contribute to that the student can communicate and document assignments.

Total 7,5 ECTS

Learning objectives
Knowledge
The student has acquired knowledge on
- Interface technology
- Technical mathematics

Skills
The student is able to
- Assess technical solutions based on the company and clients need
- Communicate and document assignments and solutions for those people in charge of executing the technical assignment
- Communicate and document assignments and solutions for companies and clients
- Use up-to-date tools and equipment in connection with design, development and testing of hardware

Competences
The student is able to
- Communicate, document, present and provide support in connection with internal and customer relations
- Handling documentation and presenting projects
- Participate in praxis-based development processes
- Acquire skills and new knowledge within electronic systems.

2.2 Subject area Communications technology systems (common for both study direction)

Content
The objective is for the student to acquire new knowledge and skills within communications technology systems, such as basic models, protocols and operating systems, as well as the ability to use up-to-date tools and equipment in connection with design and testing. Finally the subject area contribute to that the student can communicate and document assignments.

Total 7,5 ECTS

Learning objectives
Knowledge
The student has acquired knowledge on
- Communications technology

Skills
The student is able to
- Assess technical solutions based on the company and clients need
- Communicate and document assignments for those people in charge of executing the technical assignment
- Communicate and document assignments and solutions for companies and clients
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- Use up-to-date tools and equipment in connection with design and testing of communications technology systems

Competences
The student is able to
- Communicate, document, present and provide support in connection with internal and customer relations
- Handling documentation and presenting projects
- Participate in praxis-based development processes
- Acquire skills and new knowledge within communications technology systems.

2.3 Subject area Company (common for both study directions)

Content
The objective is for the student to acquire new knowledge and skills within the company, such as innovation, project management, economics, quality and resource management, advisory and consultancy functions, as well as the ability to use innovative methods. Finally the subject area contribute to that the student can communicate and document assignments.

Total 10 ECTS

Learning objectives

Knowledge
The student has acquired knowledge on
- Innovation
- Project management
- Business understanding
- Advisory and consultancy function

Skills
The student is able to
- Written and oral communication
- Use innovative methods with a focus on the end user needs.

Competences
The student is able to
- Undertake independent as well as customer-bases and team-based assignments
- Acquire skills and new knowledge within the company
- Independently handle technical project management assignments

2.4 Subject area Software development (common for both study directions)

Content
The objective is for the student to acquire new knowledge and skills within software development, such as converting a specific assignment into technical solutions, as well as the ability to use up-to-date tools and equipment in connection with design, development and testing software. Finally the subject area contribute to that the student can communicate and document assignments.

Total 5 ECTS
Learning objective
Knowledge
The student has acquired knowledge on
- Programming technology

Skills
The student is able to
- Use up-to-date tools and equipment in connection with design, development and software testing

Competences
The student is able to
- Communicate, document, present and provide support in connection with internal and customer relations
- Handling documentation and presenting projects
- Acquire skills and new knowledge within software development
- Participate in praxis-based development processes

2.5 Subject area Electronic systems (Study direction Electronics)

Content
The objective is for the student to acquire new knowledge and skills within electronic technology and the design process of electronic systems, as well as acquiring knowledge about production technology and management of an electronic device. Finally the subject area contributes to that the student can use relevant CAE and simulation tools.

Total 20 ECTS

Learning objectives
Knowledge
The student has acquired knowledge on
- Electronic technology and design
- Production technology and management

Skills
The student is able to
- Use relevant CAE and simulation tools
- Assess and select relevant development model
- Design and use test systems

Competences
The student is able to
- Handle design, development, construction, testing of prototypes
- Handle product maturing of prototypes
- Handle documentation of electronic systems
- Handle analysis, diagnosis, testing and service of the electronic systems, taking into account financial, environmental and quality requirements
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2.6  Subject area Embedded systems (Study direction Electronics)

Content
The objective is for the student to acquire new knowledge and skills within embedded systems, such as design, construction, programming and testing.

Total 25 ECTS

Learning objectives
Knowledge
The student has acquired knowledge on
- Embedded systems

Skills
The student is able to
- Assess and select relevant development models
- Design and use test systems.

Competences
The student is able to
- Handle design, development, construction, testing and documentation of embedded systems
- Handle analysis, construction, diagnosis, testing and service of the technology within data technology systems, taking into account financial, environmental and quality requirements

2.7  Subject area Network technology systems (Study direction Network)

Content
The objective is for the student to acquire new knowledge and skills within communications technology systems, such as server technology, database systems and network security, as well as the ability to use up-to-date tools for construction, testing and maintenance of database systems.

Total 35 ECTS

Learning objectives
Knowledge
The student has acquired knowledge on
- Server technologies
- Database systems
- Network security

Skills
The student is able to
- Apply knowledge on network technology in connection with design, project planning, implementation of complex network solutions
- Apply knowledge on network technology in connection with administration, operation and monitoring of complex network solutions
- Use up-to-date tools for construction, testing and maintenance of database systems

Competences
The student is able to
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- Handle analysis, identification of requirements, solution proposals, design, preparation of requirements specification of network and security solutions in all project stages
- Handle projecting and planning related to network and security solutions

2.8 Subject area Advisory and consultancy functions (Study direction Network)

Content
The objective is for the student to acquire new knowledge and skills within network project planning. Finally the subject area contributes to that the student can apply knowledge on network technology in connection with advisory and consultancy assignments.

Total 10 ECTS

Learning objectives
Knowledge
The student has acquired knowledge on
- Network project planning

Skills
The student is able to
- Apply network technology skills in connection with project planning and estimation of costs on complex network solutions
- Assess and provide suitable technical network solutions to both the company and client.

Competences
The student is able to
- Provide internal and customer-related advisory and consultancy services relating to complex network solutions and systems, both strategically and technically.
- Manage, coordinate, quality-assuring and managing the resources of implementing and commissioning of network and security solutions
- Manage and coordinate in connection with administration, operation, monitoring, maintenance and trouble shooting of networks

3. Compulsory elements within the subject areas

The compulsory elements of the programme are

For study direction Electronics
1. Electronic systems, Communications technology systems, Software development, Company, Electronic systems and embedded systems (60 ECTS)
2. Electronic systems and embedded systems (15 ECTS)
Total 75 ECTS

The two compulsory elements are each concluded with an examination

For study direction Network
1. Electronic systems, Communications technology systems, Software development, Company, Electronic systems and embedded systems (60 ECTS)
2. Network technology systems and Advisory and consultancy functions (15 ECTS)
Total 75 ECTS
3.1 Study direction Electronics, compulsory element: Electronic systems (1), Communications technology systems, Software development, Company, Electronic systems (2) and embedded systems

Content
The first compulsory element must contribute to that the student independently and in corporation with others is able to

- Construct and test interface systems
- Design, construct and test simple network technical systems
- Software development, where a concrete project is converted into a technical solution
- Use up-to-date tools and equipment in connection with development and testing
- Include the business aspect, such as project management, economics, quality and resource management
- Develop basic electronic systems at prototype level
- Develop basic embedded systems

Total ECTS
60 ECTS, of which

- 7,5 ECTS from common subject area Electronic systems
- 7,5 ECTS from common subject area Communications technology systems
- 5 ECTS from common subject area Software development
- 10 ECTS from common subject area Company
- 10 ECTS from study direction Electronics, subject area Electronic systems
- 20 ECTS from study direction Electronics, subject area Embedded systems

Learning objectives

Knowledge
The student has acquired knowledge on

From common part:
- Project management and business understanding
- Interface technology
- Communications technology
- Programming technology

From study direction part:
- Electronic technology and electronic design
- Embedded systems

Skills
The student is able to

From common part:
- Assess technical solutions
- Use up-to-date tools and equipment in connection with development and testing of electronic systems and network systems

From study direction part:
- Work with design, construction, test and documentation of electronic and embedded systems, such as the ability to use relevant CAE and simulation tools
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**Competences**
The student is able to

*From common part:*
- Document and present projects
- Acquire new knowledge and skills within basic electronic systems, communications technology systems, software development and company field

*From study direction part:*
- Design, develop, construct and testing of electronic prototypes and embedded systems

The compulsory element *Electronic systems (1)*, *Communications technology systems*, *Software development*, *Company*, *Electronic systems (2) and embedded systems* is concluded with an examination.

**Examination**
The examination is evaluated using the 7-scale grading system and counts for a total of 60 ECTS.

The learning objectives of the element are identical to the learning objectives of the examination (1st year examination)

Further details on the examination form and procedures will be found in the institutional part of the curriculum.

3.2 Study direction Electronics, compulsory element: Electronic systems and embedded systems

**Content**
The second compulsory element must contribute to that the student independently and in corporation with others is able to

- Develop electronic and embedded systems, such as product maturing
- Use up-to-date tools and equipment in connection with development and testing

**Total ECTS**
15 ECTS, of which
- 10 ECTS from study direction Electronics, subject area electronic systems
- 5 ECTS from study direction Electronics, subject area embedded systems

**Learning objectives**

*Knowledge*
The student has acquired knowledge on
- Production technology and management

*Skills*
The student is able to
- Work with design, construction, testing, product maturing and documentation in connection with electronic and embedded systems, such as using relevant CAE and simulation tools
- Assess and select relevant development model
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Competences
The student is able to

- Handle analysis, construction, diagnosis, testing and service of the electronic systems, data technology systems and embedded systems, taking into account financial, environmental and quality requirements

The compulsory element *Electronic systems and embedded systems* is concluded with an examination.

Examination
The examination is evaluated using the 7-scale grading system and counts for a total of 15 ECTS.

The learning objectives of the element are identical to the learning objectives of the examination (Technology assessment)

Further details on the examination form and procedures will be found in the institutional part of the curriculum.

3.3 Study direction Network, compulsory element: Electronic systems, Communications technology systems, Software development, Company, Network technology systems and advisory and consultancy functions

Content
The first compulsory element must contribute to that the student independently and in corporation with others is able to

- Construct and test interface systems
- Design, construct and test simple network technical systems
- Software development, where a concrete project is converted into a technical solution
- Use up-to-date tools and equipment in connection with development and testing
- Include the business aspect, such as project management, economics, quality and resource management
- Construct and test database systems
- Construct network solutions from analysis, project planning implementing to commissioning

Total ECTS
60 ECTS, of which

- 7,5 ECTS from common subject area Electronic systems
- 7,5 ECTS from common subject area Communications technology systems
- 5 ECTS from common subject area Software development
- 10 ECTS from common subject area Company
- 25 ECTS from study direction network, subject area network technology systems
- 5 ECTS from study direction network, subject area advisory and consultancy

Learning objectives
Knowledge
The student has acquired knowledge on

*From common part:*

- Project management and business understanding
- Interface technology
- Communication technology
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- Programming technology

From study direction part:
- Server technology
- Database systems
- Network project planning

**Skills**
The student is able to

From common part:
- Assess technical solutions
- Use up-to-date tools and equipment in connection with development and testing of electronic systems and network

From study direction part:
- Use up-to-date tools for construction, testing and maintenance of database systems
- Select suitable network solution
- Apply knowledge on network technology in connection with design and project planning of network solutions

**Competences**
The student is able to

From common part:
- Document and present projects
- Acquire new knowledge and skills within basic electronic systems, communications technology systems, software development and the company

From study direction part:
- Handle network solutions in all project stages, from analysis to commissioning

The compulsory element *Electronic systems (1), Communications technology systems, Software development, Company, Network technology systems (2) and advisory and consultancy functions* is concluded with an examination (1st year examination).

**Examination**
The examination is evaluated using the 7-scale grading system and counts for a total of 60 ECTS.

The learning objectives of the element are identical to the learning objectives of the examination (1st year examination)

Further details on the examination form and procedures will be found in the institutional part of the curriculum.

3.4 **Study direction Network, compulsory element: Network technology systems and Advisory and consultancy functions**

**Content**
The second compulsory element must contribute to that the student independently and in corporation with others is able to
- Handle complex network solutions from analysis, project planning, implementation to commissioning and maintenance
- Provide advice and consultancy on complex network solutions from strategy to technology
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Total ECTS
15 ECTS, of which
- 10 ECTS from study direction Network, subject area Network technology systems
- 5 ECTS from study direction Network, subject area Advisory and consultancy functions

Learning objectives

Knowledge
The student has acquired knowledge on
- Network security
- Advisory and consultancy functions

Skills
The student is able to
- Apply knowledge on network in connection with design, project planning, estimation of costs, implementation, administration, operation and maintenance of complex network solutions
- Apply knowledge on network in connection with advisory and consultancy assignments

Competences
The student is able to
- Handle network solutions in all project stages, from analysis to commissioning, such as managing, coordinating, quality-securing and resource management the implementation
- Manage and coordinate in connection with administration, operation, monitoring, maintenance and trouble shooting of network
- Provide advice and consultancy on complex network solutions from strategy to technology

The compulsory element Network technology systems and Advisory and consultancy functions is concluded with an examination (Technology assessment)

Examination
The examination is evaluated using the 7-scale grading system and counts for a total of 15 ECTS.

The learning objectives of the element are identical to the learning objectives of the examination (Technological assessment)

Further details on the examination form and procedures will be found in the institutional part of the curriculum.
4. Examination overview

Overview of all compulsory examinations

<table>
<thead>
<tr>
<th>Examination</th>
<th>Allocation of the total 120 ECTS</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Study start assessment (optional)¹</td>
<td>None</td>
<td>Pass/Fail</td>
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<tr>
<td>2. 1st year examination</td>
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<tr>
<td>3. Technology examination</td>
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<td>7-scale grading system</td>
</tr>
<tr>
<td>4. Optional elements examination²</td>
<td>15</td>
<td>7-scale grading system</td>
</tr>
<tr>
<td>5. Practical training examination</td>
<td>15</td>
<td>7-scale grading system</td>
</tr>
<tr>
<td>6. Final examination project</td>
<td>15</td>
<td>7-scale grading system</td>
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</tbody>
</table>

5. Number of examinations in the compulsory elements, study direction

Electronics

The two compulsory elements are each concluded with an examination. See total overview of the examinations for the programme under “Examination overview”.

Overview of correspondence of ECTS points between subject areas and compulsory elements.

<table>
<thead>
<tr>
<th>Compulsory elements</th>
<th>Electronic systems, Network technology systems, Software development, Company, Electronic systems and Embedded systems</th>
<th>Electronic systems and embedded systems</th>
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</thead>
</table>

Subject areas common for both study directions

<table>
<thead>
<tr>
<th>Subject areas study direction</th>
<th>Electronic systems, Network technology systems, Software development, Company, Electronic systems and Embedded systems</th>
<th>Electronic systems and embedded systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic systems</td>
<td>7,5 ECTS</td>
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<td>7,5 ECTS</td>
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</tr>
<tr>
<td>Network technology systems</td>
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<td></td>
</tr>
<tr>
<td>Software development</td>
<td>5 ECTS</td>
<td>5 ECTS</td>
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<tr>
<td>5 ECTS</td>
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<td></td>
</tr>
<tr>
<td>Company</td>
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<tr>
<td>10 ECTS</td>
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</tbody>
</table>

1. An optional study start assessment will be described in the institutional part of the curriculum.
2. Optional elements with examination are described in the institutional part of the curriculum.
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<table>
<thead>
<tr>
<th>Subject Area</th>
<th>ECTS 1</th>
<th>ECTS 2</th>
<th>Total ECTS</th>
</tr>
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<tbody>
<tr>
<td>Electronic systems</td>
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<td>20</td>
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<tr>
<td>Network technology systems</td>
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<td>15</td>
</tr>
<tr>
<td>Software development</td>
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<td></td>
<td>5</td>
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<tr>
<td>Company</td>
<td>10</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Advisory and consultancy</td>
<td>25</td>
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<td>25</td>
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<tr>
<td>Total ECTS</td>
<td>60</td>
<td>15</td>
<td>75</td>
</tr>
</tbody>
</table>

6. Number of examinations in the compulsory elements, study direction Network

The two compulsory elements are each concluded with an examination. See total overview of the examinations for the programme under “Examination overview”.

Overview of correspondence of ECTS points between subject areas and compulsory elements.

<table>
<thead>
<tr>
<th>Compulsory elements</th>
<th>Electronic systems, Network technology systems, Software, Company, Network and Advisory and consultancy functions</th>
<th>Network technology systems and Advisory and consultancy functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject areas common for both study directions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electronic systems</td>
<td>7,5 ECTS</td>
<td>7,5 ECTS</td>
</tr>
<tr>
<td>Network technology systems</td>
<td>7,5 ECTS</td>
<td>7,5 ECTS</td>
</tr>
<tr>
<td>Software development</td>
<td>5 ECTS</td>
<td>5 ECTS</td>
</tr>
<tr>
<td>Company</td>
<td>10 ECTS</td>
<td>10 ECTS</td>
</tr>
<tr>
<td>Advisory and consultancy functions</td>
<td>25 ECTS</td>
<td></td>
</tr>
<tr>
<td>Total ECTS</td>
<td>60 ECTS</td>
<td>15 ECTS</td>
</tr>
</tbody>
</table>

7. Practical training

Content
The practical training will be organized in a manner so that the student will gain practical competences as part of the AP programme.
The objectives of the practical training is to give the student the option of using taught methods, theories and tools in practice and solve concrete praxis-based assignments within the fields of electronics or/and network.

Total ECTS
15 ECTS
Learning objectives

Knowledge
The student has acquired knowledge on

- Daily operations and functions in the internship company

Skills
The student is able to

- Apply a variety of technical and analytical working methods in relation to the profession
- Assess praxis-based problem issues and suggest solutions
- Structuring and planning of daily working tasks in the profession
- Present praxis-based problem issues and justify choice of problem solution

Competences
The student is able to

- Handle development-oriented practical and professional situations in relation to the profession
- Acquire new knowledge, skills and competences in relation to the profession
- Participate in professional and interdisciplinary collaboration with a professional approach

The practical training period is concluded with an examination.

The learning objectives of the element are identical to the learning objectives of the examination.

Further details on the examination form and procedures will be found in the institutional part of the curriculum.

8. Final examination project

Total 15 ECTS

Requirements for the final examination project

In the final examination project the students must be able to document their ability to analytically and methodically solve a complex and practice-oriented problem in relation to a specific assignment within the field of the education. The problem formulation in the final examination project must be based on a central subject related to the programme, and must be prepared by the student, and if possible in cooperation with a private or public company. The Academy must approve the problem formulation.

The student must hand in a final project report and maybe a product.

The project report which is the written part of the final examination project must contain the following as a minimum;

- Front page with title
- List of contents
- Introduction and problem statement
- Analysis and assessment
- Conclusion
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- Bibliography (incl. all sources with a reference in the project)
- List of appendices (only include appendices which are relevant for the project)

The volume of the written project is a maximum of 20 normal pages + 20 normal pages per student. A normal page is 2400 keystrokes including blanks and foot notes. Front page, list of content, bibliography and list of appendices are not included in the number of required pages. Nor will the included appendices be considered in the assessment of the project.

Writing and spelling ability
Showing good writing and spelling abilities are elements included in the final examination project. The final assessment is based on an overall evaluation of the content, spelling and writing ability. Students with impaired physically or mentally abilities may apply for an exemption from the requirement that good writing and spelling abilities are included in the final assessment. The application must be directed to the Head of education at the relevant Academy no later than 4 weeks prior to the assessment.

Learning Objectives
The final examination project must document that the learning objectives of the education are achieved according to the appendix no. 1 in the Order for the IT Technology AP Degree, study direction Electronics:

Knowledge
The student have acquired knowledge on
1) Communications and interface technology
2) Programming technology
3) Innovation, project management and business understanding, advisory and consultancy functions
4) Technical mathematics
5) Embedded systems
6) Electronics technology and design and
7) Production technology and management

Skills
The student is able to
1) Assess technical solutions based on the company’s and the clients’ needs
2) Communicate and document assignments and solutions for the people in charge of executing the technical assignments as well as for companies and customers
3) Use up-to-date tools and equipment in connection with design, development and testing of both hardware and software
4) Written and oral communication
5) Use innovative methods focused on user needs
6) Use relevant CAE and simulation tools
7) Assess and select relevant development model and
8) Design and use test systems

Competences
The student is able to
1) Communicate, document, present and provide support in Danish and English in connection with internal and customer relations, including handling documentation and presentation of projects
2) Undertake independent as well as customer-based and team-based assignments
3) Acquire skills and new knowledge within the field
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4) Independently undertake technical project management assignment and
5) Participate in practice-oriented development processes
6) Handle design, development, construction, testing, product maturing and document of electronic systems, products and prototypes and
7) Handle analysis, construction, diagnosis, testing and services of the technology involved in the work on electronic and computerised systems, taking into account financial, environmental and quality requirements

The final examination project must document that the learning objectives of the education are achieved according to the appendix no. 1 in the Order for the IT Technology AP Degree, study direction **Network**:

**Knowledge**
The student have acquired knowledge of
1) Communications and interface technology
2) Programming technology
3) Innovation, project management and business understanding, advisory and consultancy functions
4) Technical mathematics
5) Client and server technologies
6) Database systems
7) Network security and
8) Network project planning

**Skills**
The student is able to
1) Assess technical solutions based on the company´s and the clients´ needs
2) Communicate and document assignments and solutions for the people in charge of executing the technical assignments as well as for companies and customers
3) Use tools and equipment in connection with design, development and testing of both hardware and software
4) Written and oral communication
5) Use innovative methods focused on user needs
6) Apply knowledge on network technology in connection with design, project planning, estimation of costs, implementation, administration, operation and monitoring of complex network solutions
7) Assess and communicate the suitability of technical network solutions vis-à-vis the company and the client and
8) Use up-to-date tools for construction, testing and maintenance of database systems

**Competence**
The student is able to
1) Communicate, document, present and provide support in Danish and English in connection with internal and customer relations, including handling documentation and presentation of projects
2) Undertake independent as well as customer-based and team-based assignments
3) Acquire skills and new knowledge within the field
4) Independently undertake technical project management assignment and
5) Participate in practice-oriented development processes
6) Handle complex network solutions and systems in connection with internal and customer-related advisory and consultancy services, both strategically and technically
7) Handle analysis, identification of requirements, solution proposals, design, estimation of costs, preparation of requirements specification, projecting and planning relating to network and security
solutions, including managing, coordinating, quality-assuring and managing the resources in respect of implementation and commissioning in all project stages and
8) Manage and coordinate administration, operation, monitoring, maintenance and problem solving relation to networks

Final examination
The final examination is external and evaluated using the 7-scale grading system.

The final examination is partly a written project and partly an oral examination. The student will receive one combined grade only. Students must have passed all examinations and the practical training period to be entitled to do the final examination project.

Further details on the examination form and procedures will be found in the institutional part of the curriculum.

9. Credit transfer
Passed elements are equivalent to the corresponding elements in other educational institutions that offer the same programme.

The student is required to disclose all completed subjects from another Danish or foreign higher education academy and practical work experience which are likely to give credit. The academy approves in each case on merit based on completed subjects and practical work experience that commensurate with the subject areas, elements and practical training period of this programme. The decision is made on the basis of a professional assessment.

9.1 Advance credit transfer
The student can apply for advanced credit transfer. By pre-approval of studying in Denmark or abroad, the student is required to document after end studies all of the completed subjects of the study place. The student must in regard to the pre-approval consent to that the institution after completing the study programme can obtain the necessary information.

Upon approval of the advance credit transfer the educational element is considered completed if it is passed according to the rules of the program.

9.2 Credit transfer agreements
None.

10. Exemption
In the case of exceptional circumstances, the institution may grant exemptions from the rules, in this common part of the curriculum, which is solely determined by the institutions. The institution cooperates in order to achieve a uniform exemption policy
11. Commencement and transitional provisions

This common part of the curriculum enter into force on 1st September 2014, and applies to all students who are and later will be enrolled in the program and for examinations that start on or after this date.

The common part of the curriculum from September 2013 is repealed with effect from 31st August 2014. However examinations which were started before 1st September 2014 are also concluded after this common part of the curriculum by latest 31st January 2015.