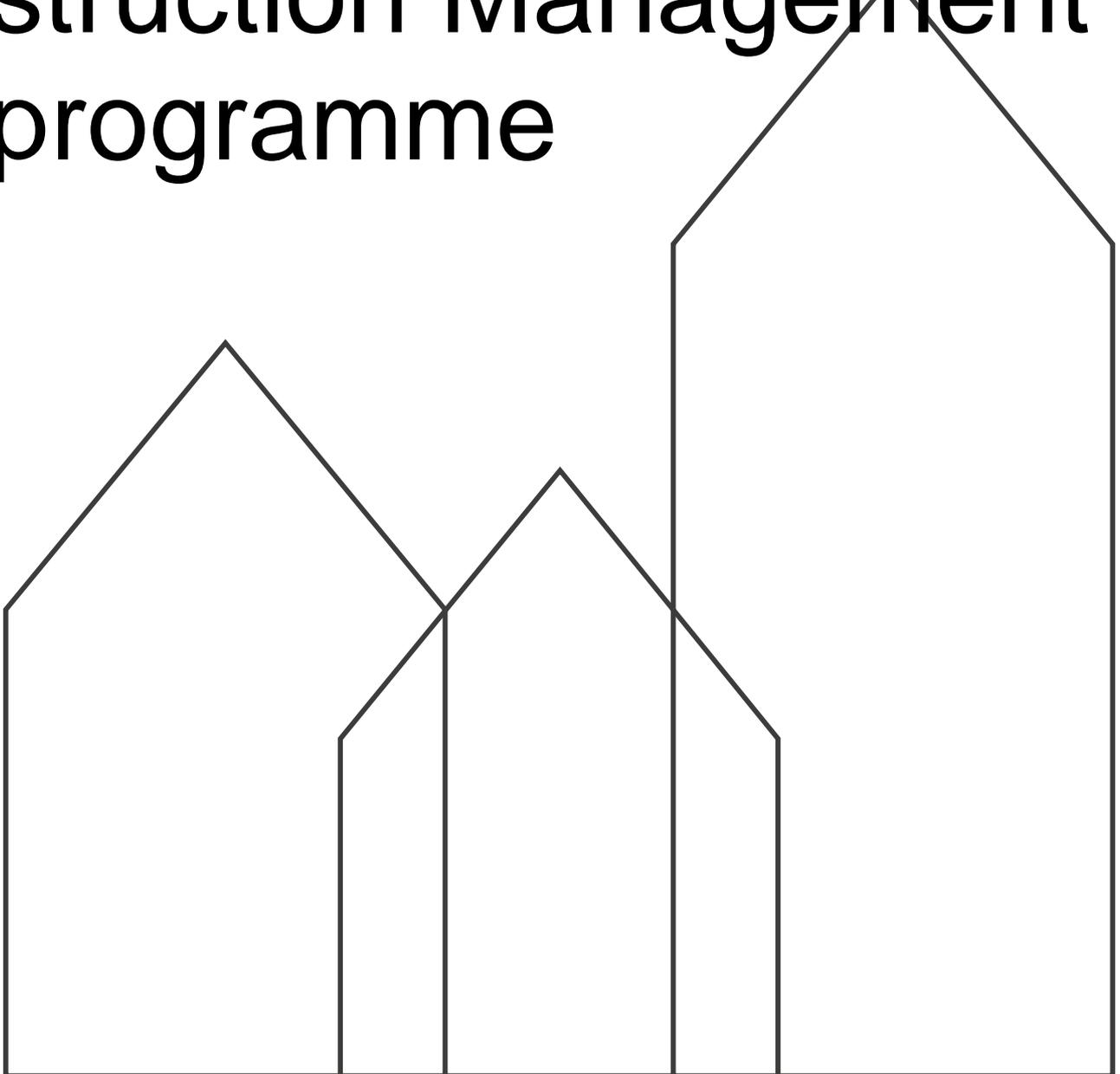


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CURRICULUM

The Architectural Technology and Con- struction Management programme



CONTENT

1	PROGRAMME STRUCTURE	5
2	CURRICULUM – COMMON PART	7
2.1	Core areas in the study programme	7
2.1.1	General	7
2.1.2	Company	8
2.1.3	Production	9
2.1.4	Design and planning	10
2.1.5	Surveying	12
2.2	Compulsory programme elements	12
2.2.1	Residential buildings	12
2.2.2	Buildings up to 2½ storeys	14
2.2.3	Industrial buildings and prefabrication	15
2.2.4	Multi-storey buildings >3 storeys	16
2.2.5	Renovation	17
2.3	Internship	19
2.4	The bachelor project	19
2.5	Credit transfer for compulsory programme elements and internship	21
<hr/>		
3	CURRICULUM – INSTITUTION-SPECIFIC PART	22
3.1	Elective programme elements	22
3.1.1	1st elective programme element	22
3.1.2	2nd elective programme element	23
3.1.3	3rd elective programme element	23
3.1.4	4th elective programme element	26
3.2	Credit transfer for elective programme elements	27
3.3	Placement of programme elements and internships, including exams, in the programme structure	28
3.4	Parts of the study programme which can be completed abroad (exchange)	29
3.5	Internship	29
3.5.1	Role of the internship company	30
3.6	Exams in the study programme	31
3.6.1	The exams	31
3.6.2	First-year exam	36
3.6.3	Re-examination	36
3.6.4	Cheating, plagiarism and disruptive behaviour	36

3.6.5	Complaints about exams and appeals	37
3.7	Formal standards for assignments and projects	38
3.7.1	Standards	38
3.7.2	References	39
3.8	Teaching and workforms in the study programme	39
3.9	Differentiation of teaching	39
3.10	Study activity	39
3.11	Texts in foreign languages	40
3.12	Changing academic major and transfers	40
3.12.1	Changing academic major	40
3.12.2	Transfers	40
3.12.3	Applying for change of academic major or transfer	41
3.13	Leave of absence	41
3.13.1	Maternity/paternity leave, adoption and conscription	41
3.13.2	Application	41
3.14	Parallel programmes	42
3.15	Dispensations	44
3.16	Entry into force and transition rules	44
3.16.1	Entry into force	44
3.16.2	Transition rules	44
3.17	Legal basis	44

Introduction

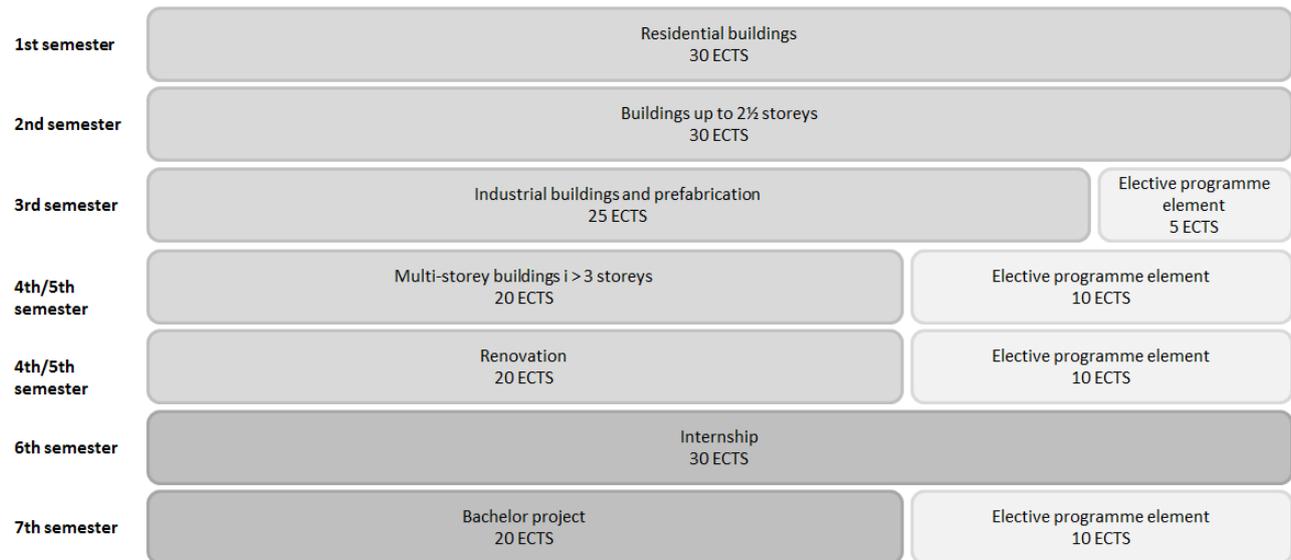
This Curriculum applies the professional bachelor programme in Architectural Technology and Construction Management. It describes the overall planning of the programme and thus constitutes a planning tool for the institution as well as study information for the students.

The objective of the curriculum is to

- translate the overall legislation into a common curriculum which describes the general conditions of the programmes
- ensure uniformity across the programmes
- enable students to move between different learning environments with full credit
- ensure a common touch in the curricula in terms of form and content.

The curriculum is divided into a common part and an institution-specific part. The common part describes the educational elements that are common to all Architectural Technology and Construction Management programmes offered in Denmark. The institution-specific part describes the rules that apply to the individual educational institution only.

Figure 2: The compulsory and elective programme elements of the Architectural Technology and Construction Management programme



Reference: Preparation in the network of approved providers of the programme based on the ministerial order

As indicated in figure 2 the compulsory programme elements are always placed in semester 1-3 as well as 6-7, whereas the individual institution can determine the compulsory programme element to be placed in the 4th and 5th semester, respectively. This is specified in the institution-specific part.

2 CURRICULUM – COMMON PART

The common part includes a description of the programme elements that are common to all Architectural Technology and Construction Management programmes offered.

These elements consist of five discipline-specific core areas and seven compulsory programme elements, including internship and bachelor project.

The compulsory programme elements in the first five semesters are limited courses that draw on learning objectives and include ECTS points from the core areas, cf. table 1.

Apart from that, learning objectives and ECTS points have been laid down for internship (30 ECTS), bachelor project (20 ECTS) and elective programme elements (35 ECTS).

Table 1: ECTS points for compulsory programme elements divided into core areas

	Gene- ral	Com- pany	Produc- tion	Design and plan- ning	Sur- veying	To- tal
Residential buildings	10	0	5	10	5	30
Buildings up to 2½ storeys	10	5	10	5	0	30
Industrial buildings and prefabrica- tion	5	5	10	5	0	25
Multi-storey buildings >3 storeys	5	0	5	10	0	20
Renovation	0	5	5	10	0	20
TOTAL	30	15	35	40	5	125

Reference: Preparation in the network of approved providers of the programme based on the ministerial order

2.1 Core areas in the study programme

The programme consists of five core areas – General, Company, Production, Project design and Surveying – which constitute the overall subject areas with which the students are to work in order to acquire the knowledge, skills and competences required to complete the study programme.

2.1.1 General

2.1.1.1 Contents

The core areas comprise communication, theory of science, working methodology, organisation, cooperation, information technology, innovation, numeracy, applied mathematics and physics as well as foreign languages.

I.e. general skills that can be used in connection with the other core areas.

2.1.1.2 Learning objectives

Knowledge

The graduate should have knowledge of:

- principles of oral and written communication in general and within the profession
- the use of general information technology of significance to the profession
- theory of science relevant to the profession together with the ability to reflect on its significance for both personal and professional development
- principles and methods for personal planning and management of processes
- principles and methods for use in cooperation, organisation and learning
- methods of innovation within the profession and the ability to reflect on the use of the methods in relation to concrete tasks
- general applied mathematical and physical construction principles of relevance to the profession
- their work methods, results and improvement opportunities as well as those of others

- theoretical and methodical issues within the profession area

Skills

The graduate should be able to:

- convey professional issues by means of relevant media, independently and in collaboration with others
- handle communicative tasks related to management, project design, planning and execution of building and construction projects
- organise and manage their own work and that of the project group as well as assess results achieved, independently and in collaboration with others
- seek and substantiate the use of technical joint property applied and other material relevant to the profession
- assess practice-related and theoretical issues as well as substantiate the choice of relevant solution models
- use general linguistic and scientific knowledge to solve the assignments of the profession
- use innovative approaches and solutions to solve given technical tasks/issues
- use general information technology of significance to the profession
- apply general numeracy

Competences

The graduate should have the competences to:

- identify their own knowledge and learning needs based on the knowledge, skills and competences acquired within the core area
- acquire new knowledge within the core area and translate it to practice in respect of the profession
- use relevant argumentation and relate critically, both orally and in writing, to interdisciplinary issues
- independently take part in discipline-specific and interdisciplinary collaboration and take on responsibility within the settings of professional ethics
- handle complex and development-oriented situations in relation to work or study
- take part in the solution of theoretical and methodical issues within the profession area

2.1.1.3 ECTS points

The core area comprises 30 ECTS points out of the 210 total ECTS points for the programme.

2.1.2 Company

2.1.2.1 Contents

The core area comprises business operations, administration and law.

2.1.2.2 Learning objectives

Knowledge

The graduate should have knowledge of:

- applied principles, methods and rules within entrepreneurship
- basic principles, theories, methods and tools related to managing business economics and personnel management
- the structure of rules of law and legal method
- basic rules in regard to the law of property within contractual law, law of torts and practice
- contractual relations
- the opportunities and rules of the profession for setting up their own company
- corporate and organisational forms in connection with the establishment and operation of a business as well as the strategies and business plans that form the basis of the selection
- the social, cultural and ethical issues that have an impact on the establishment, operation and administration of a business
- the basic elements of building economy

Skills

The graduate should be able to:

- select and use methods and tools for organising, leading, managing and operating a business
- apply legislation in relation to business operations and administration
- apply accounting principles for operating a business and use the industry's methods and tools for budgeting, bookkeeping and tendering
- apply industry-relevant forms and standard contracts in relation to company management, planning and follow-up
- scrutinise the legal basis of contract formation as well as prepare a risk assessment in the company;
- manage risks and prepare risk assessment in projects
- handle the management and control of small companies, independently and in collaboration with others

Competences

The graduate should have the competences to:

- identify their own knowledge and learning needs based on the knowledge, skills and competences acquired within the core area
- acquire new knowledge within the core area and translate it to practice in respect of the profession
- set up a business of their own within the profession's work areas, independently and in collaboration with others
- handle the management and control of small companies, independently and in collaboration with others
- handle the tender process, independently and in collaboration with others
- manage projects professionally, in terms of time, financially and legally

2.1.2.3 ECTS points

The core area comprises 15 ECTS points out of the 210 total ECTS points for the programme.

2.1.3 Production

2.1.3.1 Contents

The core area includes building and construction production and project management.

2.1.3.2 Learning objectives

Knowledge

The graduate should have knowledge of:

- applied principles, theories and methods within innovation, planning, management and execution of production processes within the industry and be able to reflect on them
- general theoretical production concepts and methods used in practice in the industry as well as be able to reflect on them
- applied principles, theories and methods for project management of building and construction production in factories or on the construction site as well as be able to reflect on them
- relevant communication and methods for communicating problems in production processes
- applied principles, theories, methods and tools for financial management of building and construction

Skills

The graduate should be able to:

- analyse, evaluate and use up-to-date and relevant methods and tools for the management and planning of production
- manage projects independently and in collaboration with other professionals, including convey technical production issues, to other interested parties
- combine and include relevant experience, knowledge and research for addressing production processes
- analyse and understand issues in production processes and, in an interdisciplinary context, find solutions via co-operation with others
- assess and understand human, environmental, financial and technological aspects of production

- assess and understand social, cultural and ethical connections in production and the collaboration on its execution
- convey practice-related issues and solutions
- include digital systems and methods to optimise information flows in a building and construction project
- apply relevant building law
- apply and further develop an information model at a suitable information level and with suitable property sets with a view to production, and classify structures, construction members and components via a coherent and recognised classification system
- manage risks in projects
- analyse, assess and apply tools for use in financial management of parts of constructions
- prepare tender documents
- analyse and assess project and production material in relation to quality assurance
- choose production methods
- handle tender, agreement and organisation forms
- use the basic tools and production methods of business and industry in practice
- choose production methods and materials in relation to requirements and specifications in tenders

Competences

The graduate should have the competences to:

- identify their own knowledge and learning needs based on the knowledge, skills and competences acquired within the core area
- acquire new knowledge within the core area and translate it to practice in respect of the profession
- plan and manage the production of complex building and construction tasks, independently and in cooperation with other professions
- handle communication between users, clients, authorities, consultants and contractors about the production of complex construction tasks or building components
- analyse and select methods and systems to optimise information flows in a building and construction project
- handle information model data and exchange these between different systems for use in the production
- handle tender, agreement and organisation forms
- handle financial management of building and production processes

2.1.3.3 ECTS points

The core area comprises 35 ECTS points out of the 210 total ECTS points for the programme.

2.1.4 Design and planning

2.1.4.1 Contents

The core area includes building and construction production and project management.

2.1.4.2 Learning objectives

Knowledge

The graduate should have knowledge of:

- principles, theories, methods and tools within design and design management and be able to reflect on the choice of method for a given task
- the phases and/or information levels in the project design and be able to reflect on the related information needs
- project design and innovation methodologies, interdisciplinary collaboration forms with other professions on project design as well as work with clients, authorities and other interested parties concerning the planning and design of building and construction projects
- architecture, known and new building techniques, styles, building methods, sustainability, cultural heritage and materials management
- static analysis, load bearing calculations, calculations of estimates for project design and execution of construction projects

- building physics, moisture and energy conditions, calculations of estimates and the incorporation of building services in connection with design and execution of construction tasks
- quality assurance, work environment and document handling in connection with project management from planning to the running of building and construction projects
- construction of digital building information models consisting of relevant information, in respect of the project design process

Skills

The graduate should be able to:

- plan new building and renovation in collaboration with other professions by including building legislation, standards, sustainability, technical joint property and new knowledge in the building and construction sector
- master known and applied project design, project management and communication tools used in the profession
- produce static analyses and apply estimate calculations
- assess building physics properties and indoor climate as well as prepare energy calculations for buildings and be able to use them in practice
- set out utility supply systems and incorporation possibilities for building services
- develop plans for quality assurance, health and safety for building and construction projects
- convey practice-related issues and solutions
- assess practice-related and theoretical issues as well as substantiate choice of relevant solution models
- construct a digital building information model consisting of structures, construction members and components at a relevant information level and with property sets in relation to the planning process
- prepare appropriate operation & maintenance plans, renovation and/or conversion proposals and other actions by means of surveying and condition checks

Competences

The graduate should have the competences to:

- identify their own knowledge and learning needs based on the knowledge, skills and competences acquired within the core area
- acquire new knowledge within the core area and translate it to practice in respect of the profession
- be in charge of project design and planning of complex building and construction projects, independently and in cooperation with other professions
- independently handle project management, quality management and document management in a building and construction project
- identify and formulate central issues and requirements for building and construction
- handle technical construction work in accordance with the architecture of building, including meet requirements for sustainability in complex building and construction projects
- evaluate and select technical, innovative and sustainable design solutions and materials for use in structures in complex building and construction tasks
- handle digital building information models as well as translate and extract data between different information systems and detail models
- take part in interdisciplinary collaboration on surveying and registration in connection with building and construction tasks
- handle technical construction work in accordance with the architecture of building

2.1.4.3 ECTS points

The core area comprises 40 ECTS points out of the 210 total ECTS points for the programme.

2.1.5 Surveying

2.1.5.1 Contents

The core area includes surveying, setting-out and condition check.

2.1.5.2 Learning objectives

Knowledge

The graduate should have knowledge of:

- principle, theories, methods and tools used within surveying, setting-out related to the building and construction area
- instruments used for surveying and setting-out buildings and the accuracy obtained through surveying

Skills

The graduate should be able to:

- assess setting-out tasks, understand and use site plans with contour lines and other map features used in the building and construction industry
- record and assess the condition of building components, constructions and buildings
- assess practice-related and theoretical issues as well as substantiate choice of relevant solution models
- communicate practical and professional problems and issues as well as solutions for partners and users

Competences

The graduate should have the competences to:

- identify their own knowledge and learning needs based on the knowledge, skills and competences acquired within the core area
- acquire new knowledge within the core area and translate it to practice in respect of the profession
- independently take part in interdisciplinary collaboration on setting out and surveying in connection with building and construction projects and take on responsibility within the settings of professional ethics

2.1.5.3 ECTS points

The core area comprises 5 ECTS points out of the 210 total ECTS points for the programme.

2.2 Compulsory programme elements

2.2.1 Residential buildings

2.2.1.1 Contents

The compulsory programme element consists of an interdisciplinary project where the students work with a concrete small residential building.

The compulsory programme element has the following core areas:

- General (10 ECTS)
- Production (5 ECTS)
- Project design (10 ECTS)
- Surveying (5 ECTS)

2.2.1.2 Learning objectives

Knowledge

By the end of the compulsory programme element, the student should have knowledge of:

- the correlation between the various professional issues in the semester theme
- relevant communication theories and methods to convey discipline-specific issues, including digital media within the theme of the compulsory programme element
- tools and standards in connection with the theme of the compulsory programme element
- the basic technical disciplines and related relevant documentation of the profession within the theme of the compulsory programme element
- general working methods in relation to theme of the compulsory programme element
- working methodology through methods and practice for use in planning, collaboration and learning
- methods and practice for use in planning, collaboration and learning
- general mathematical and physical construction principles of relevance to the profession
- basic static principles
- data collection and documentation in connection with project design tasks
- industry partners, professional areas and insight into the construction process in relation to the theme of the compulsory programme element
- applied principles, theories, methods and tools for project management of building and construction production in factories or on the construction site in relation to the theme of the compulsory programme element

Skills

By the end of the compulsory programme element, the student should be able to:

- use methods and tools collect and analyse information within the theme of the compulsory programme element
- convey practice-related technical issues related to the theme of the compulsory programme element to relevant partners and users
- relevant communication and methods to convey problems in production processes
- apply professional techniques in relation to the theme of the compulsory programme element and use methods for planning the building process
- structure their own and the work group's work at starter level
- assess setting-out tasks as well as understand and use site plans with contour lines and other map features used in the building and construction industry

Competences

By the end of the compulsory programme element, the student should have the competences to:

- identify their own knowledge and learning needs based on the knowledge, skills and competences acquired in the course of the completed compulsory programme elements
- handle relevant construction and documentation material in relation to the theme of the compulsory programme element
- understand the correlation between the various professional issues in the theme of the compulsory programme elements
- take part in interdisciplinary collaboration on setting out in connection with building and construction tasks

2.2.1.3 ECTS points

This compulsory programme element comprises 30 ECTS points out of the 210 total ECTS points for the programme.

2.2.1.4 Exams

The compulsory programme elements Residential buildings and Buildings up to 2½ storeys are concluded with one overall exam (see further under exams).

2.2.2 Buildings up to 2½ storeys

2.2.2.1 Contents

The compulsory programme element consists of an interdisciplinary project where the students work with a concrete building up to 2½ storeys.

The compulsory programme element has the following core areas:

- General (10 ECTS)
- Company (5 ECTS)
- Production (10 ECTS)
- Project design (5 ECTS)

2.2.2.2 Learning objectives

Knowledge

By the end of the compulsory programme element, the student should have knowledge of:

- the correlation between the various professional issues in the semester theme
- relevant communication theories and methods to convey discipline-specific issues, including digital media within the theme of the compulsory programme element
- tools and standards in connection with the theme of the compulsory programme element
- the basic technical disciplines and related relevant documentation of the profession within the theme of the compulsory programme element
- basic working methods in relation to theme of the compulsory programme element
- relevant social, environmental, financial and technological aspects of the production process
- working methodology through methods and practice for use in planning, collaboration and learning
- applied principles, methods and rules within entrepreneurship
- basic contractual relations concerning building
- general theoretical production concepts and methods applied in practice
- construction of digital building information models consisting of relevant information in respect of the project design process
- applied principles, theories, methods and tools for financial management of building
- specific production tools applied in practice in the industry

Skills

By the end of the compulsory programme element, the student should be able to:

- use methods and tools to collect and analyse information within the theme of the compulsory programme element
- convey practice-related technical issues related to the theme of the compulsory programme element to relevant partners and users
- assess theoretical and practical problems and issues concerning project design in relation to the theme of the compulsory programme element and substantiate the chosen actions and solutions
- apply professional techniques in relation to the theme of the compulsory programme element and use methods for planning its execution
- analyse, assess and apply tools for use in financial management of parts of constructions
- analyse and assess project and production material in relation to quality assurance

Competences

By the end of the compulsory programme element, the student should have the competences to:

- identify their own knowledge and learning needs based on the knowledge, skills and competences acquired in the course of the completed compulsory programme element
- independently take part in discipline-specific and interdisciplinary collaboration and take on responsibility within the settings of professional ethics
- apply the acquired knowledge and the skills included in the theme of the compulsory programme element to carry out substantiated analysis of discipline-specific relevant issues and their solutions
- handle project design of a building in relation to the theme of the compulsory programme element and account for the principles of the execution
- handle tender, agreement and organisation forms

2.2.2.3 ECTS points

This compulsory programme element comprises 30 ECTS points out of the 210 total ECTS points for the programme.

2.2.2.4 Exams

The compulsory programme elements Residential buildings and Buildings up to 2½ storeys are concluded with one overall exam (see further under exams).

2.2.3 Industrial buildings and prefabrication

2.2.3.1 Contents

The compulsory programme element consists of an interdisciplinary project where the students work with project design of industrialised components used in a concrete building.

The compulsory programme element has the following core areas:

- General (5 ECTS)
- Company (5 ECTS)
- Production (10 ECTS)
- Project design (5 ECTS)

2.2.3.2 Learning objectives

Knowledge

By the end of the compulsory programme element, the student should have knowledge of:

- the correlation between the various professional issues in relation to theme of the compulsory programme element
- relevant communication theories and methods to convey discipline-specific issues, including digital media within the theme of the compulsory programme element
- tools and standards in connection with the theme of the compulsory programme element
- industrial production and execution methods in relation to theme of the compulsory programme element
- industrial constructions, planning and control tools, technical installations, static principles and documentation in relation to the theme of the compulsory programme element
- mathematical and physical solutions in relation to theme of the compulsory programme element
- basic principles, theories, methods and tools related to managing business economics and personnel management
- the structure of rules of law and legal method
- basic rules in regard to the law of property within contractual law, law of torts and practice
- the opportunities and rules of the profession for setting up their own company
- corporate and organisational forms in connection with the establishment and operation of a business as well as the strategies and business plans that form the basis of their selection
- the social, cultural and ethical issues that have an impact on the establishment, operation and administration of a business
- applied principles, theories, methods and tools for project management of construction production in factories or on the construction site as well as be able to reflect on them
- digital systems and methods to optimise information flows in a building and construction project

Skills

By the end of the compulsory programme element, the student should be able to:

- use methods and tools to collect and analyse information within the theme of the compulsory programme element
- convey practice-related technical issues related to the theme of the compulsory programme element to relevant partners and users
- select and use relevant methods and tools for organising, leading, managing, administering and operating a business
- apply relevant legislation in relation to business operations and administration
- apply accounting principles for operating a business and use the industry's methods and tools for budgeting, bookkeeping and tendering

- apply the industry's methods, forms and standard contracts in relation to company management, planning and follow-up
- scrutinise the legal basis of contract formation as well as prepare a risk assessment in the company
- analyse, evaluate and use up-to-date and relevant methods and tools for production management and planning
- include digital systems and methods to optimise information flows in a building and construction project
- apply relevant building law
- apply and further develop an information model at a suitable information level and with suitable property sets with a view to production
- classify structures, construction members and components via a coherent and recognised classification system

Competences

By the end of the compulsory programme element, the student should have the competences to:

- identify their own knowledge and learning needs based on the knowledge, skills and competences acquired in the course of the completed compulsory programme elements
- independently take part in discipline-specific and interdisciplinary collaboration and take on responsibility within the settings of professional ethics
- apply the acquired knowledge and the skills included in the theme of the compulsory programme element to carry out substantiated analysis of discipline-specific relevant issues and their solutions
- analyse and select methods and systems to optimise information flows in a building and construction project

2.2.3.3 ECTS points

This compulsory programme element comprises 25 ECTS points out of the 210 total ECTS points for the programme.

2.2.3.4 Exams

The compulsory programme element is concluded with one exam (see further under exams).

2.2.4 Multi-storey buildings >3 storeys

2.2.4.1 Contents

The compulsory programme element consists of an interdisciplinary project where the students work with a concrete multi-storey building >3 storeys.

The compulsory programme element has the following core areas:

- General (5 ECTS)
- Production (5 ECTS)
- Project design (10 ECTS)

2.2.4.2 Learning objectives

Knowledge

By the end of the compulsory programme element, the student should have knowledge of:

- the correlation between the various professional issues in relation to the theme of the compulsory programme element
- relevant communication theories and methods to convey discipline-specific issues, including digital media within the theme of the compulsory programme element
- tools, standards and innovative processes in connection with the theme of the compulsory programme element
- complex production and execution methods in relation to theme of the compulsory programme element
- complex constructions, planning and control tools, technical installations, static principles and documentation in relation to the theme of the compulsory programme element
- scientific principles and documentation
- innovation theory and methods

Skills

By the end of the compulsory programme element, the student should be able to:

- use methods and tools to collect and analyse information within the theme of the compulsory programme element
- convey the chosen methods and technical solutions to relevant partners
- apply project design methods in relation to the theme of the compulsory programme element and use methods for planning and managing the execution of the work
- assess different methods and procedures and be able to make a substantiated choice
- translate a chosen management concept into practical planning in relation to project design and execution
- manage projects independently and in collaboration with other professionals, including convey technical issues concerning production, to other interested parties
- combine and include relevant experience, knowledge and research to address production processes
- analyse and understand issues in production processes and, in an interdisciplinary context, find solutions via co-operation with others
- assess and understand relevant social, environmental, financial and technological aspects of the production process

Competences

By the end of the compulsory programme element, the student should have the competences to:

- identify their own knowledge and learning needs based on the knowledge, skills and competences acquired in the course of the completed compulsory programme elements
- apply the acquired knowledge and the skills included in the theme of the compulsory programme element to carry out substantiated analysis of discipline-specific relevant issues and their solutions;
- take part in discipline-specific and interdisciplinary collaboration
- handle the information model data and exchange these between different systems for use in the production
- convert analysis and project material to execution of the theme of the compulsory programme element
- manage the project design and execution process for a multi-storey building, taking relevant social, environmental, financial and technological aspects into consideration
- prepare and use digital building information models and transfer and extract data between different information systems and detail models
- create innovative solutions within construction with a view to optimising production

2.2.4.3 ECTS points

This compulsory programme element comprises 20 ECTS points out of the 210 total ECTS points for the programme.

2.2.4.4 Exams

The compulsory programme element is concluded with one exam (see further under exams).

2.2.5 Renovation

2.2.5.1 Contents

The compulsory programme element consists of an interdisciplinary project where the students work with planning and project design of a concrete renovation.

The compulsory programme element has the following core areas:

- Company (5 ECTS)
- Production (5 ECTS)
- Project design (10 ECTS)

2.2.5.2 Learning objectives

Knowledge

By the end of the compulsory programme element, the student should have knowledge of:

- the correlation between the various professional issues related to the theme of the compulsory programme element
- relevant communication theories and methods to convey discipline-specific issues, including digital media within the theme of the compulsory programme element
- tools and standards in relation to the theme of the compulsory programme element
- constructions, sustainability, planning and control tools, technical installations, static principles and documentation in relation to the theme of the compulsory programme element
- project design and execution methods in relation to theme of the compulsory programme element
- different energy-optimising renovation and conversion concepts

Skills

By the end of the compulsory programme element, the student should be able to:

- use methods and tools to collect and analyse information in relation to the theme of the compulsory programme element
- convey practice-related technical issues related to the theme of the compulsory programme element to relevant partners and users
- assess and understand social, cultural and ethical connections in production and the collaboration on its execution
- assess theoretical and practice-related issues concerning the theme of the compulsory programme element and make substantiated choices
- apply project-design and sustainable methods in relation to the theme of the compulsory programme element and use methods for planning the execution of the work

Competences

By the end of the compulsory programme element, the student should have the competences to:

- identify their own knowledge and learning needs based on the knowledge, skills and competences acquired in the course of the completed compulsory programme elements
- acquire new knowledge and translate it to practice in respect of the profession
- set up a business of their own within the profession's areas, independently and in collaboration with others
- handle the management and control of small companies, independently and in collaboration with others
- handle the tender process, independently and in collaboration with others
- manage projects professionally, in terms of time, financially and legally
- plan, quality assure and manage the production of complex building and construction tasks, independently and in cooperation with other professions
- handle communication between users, clients, authorities, consultants and contractors about the production of complex construction tasks or building components
- involve relevant social, environmental, financial and technological aspects in the production process;
- apply the acquired knowledge and the skills included in the theme of the compulsory programme element to carry out technical construction work based on a substantiated analysis of discipline-specific relevant issues and their solutions
- manage the project-design and production process for a renovation and conversion project, taking relevant social, environmental, financial and technological aspects into consideration
- take part in discipline-specific and interdisciplinary collaboration
- document the planning of their own work based on self-management principles

2.2.5.3 ECTS points

This compulsory programme element comprises 20 ECTS points out of the 210 total ECTS points for the programme.

2.2.5.4 Exams

The compulsory programme element is concluded with one exam (see further under exams).

2.3 Internship

2.3.1.1 Contents

The Architectural Technology and Construction Management programme includes one internship period. The internship consists of discipline-specific work and its aim is to prepare the students for work as a bachelor of Architectural Technology and Construction Management.

The internship is to be completed in a private or public company in Denmark or abroad. The internship company must offer internship assignments with a work content that is relevant to the profession, as well as guidance.

2.3.1.2 Learning objectives

Knowledge

By the end of the internship, the student should have knowledge of:

- the practical work involved in the profession in the specific company
- the organisational, financial, administrative, societal and work-related aspects of the specific internship company

Skills

By the end of the internship, the student should be able to:

- work with relevant professional issues within the professional area in the specific company
- work independently or in collaboration with others to resolve theoretical and practical tasks in the company
- convey practice-related issues and solutions

Competences

By the end of the internship, the student should have the competences to:

- translate the programme's core areas into theoretical and practical tasks in the specific company
- identify their own learning needs and develop their own knowledge, skills and competences in relation to practice
- handle complex and development-oriented situations in work contexts
- independently take part in discipline-specific and interdisciplinary collaboration and take on responsibility within the settings of professional ethics

2.3.1.3 ECTS points

The internship period comprises 30 ECTS points out of the 210 total ECTS points for the programme.

2.3.1.4 Exams

The internship period element is concluded with one exam (see further under exams).

2.4 The bachelor project

2.4.1.1 Contents

The programme is concluded with a bachelor project. The project cannot be concluded until all other exams of the programme have been passed.

In order for the students to complete the bachelor project in a satisfactory way, the project must meet the following requirements:

- The project must reflect the end objective of the programme.
- The project may be prepared individually or in groups of up to three students.
- The project must be based on a practice-related problem or issue that is central to the programme and the profession. The students must formulate the problem statement themselves, possibly in collaboration with a private or public enterprise/organisation, and have it approved by the institution.
- If the bachelor project is prepared in a group, the project must clearly indicate who is responsible for the individual parts, so that it is possible to assess the individual student's performance at the exam.

Further requirements appear from the institution-specific part of this Curriculum.

2.4.1.2 Learning objectives (programme end objectives)

Knowledge

The graduate should have knowledge of:

- applied principles, theories and methods in management, project design, planning and execution of complex building and construction tasks and, through reflection, be able to apply those theories and methods to different situations
- professionally relevant theoretical concepts and methods
- relevant communication theories and methods to convey discipline-specific issues, including digital media within constructional as well as general areas
- principles and models of the trade for setting up, running and organising businesses
- societal and technological matters that influence the construction process, including issues in respect of energy, working environment and sustainability in a local and global perspective
- managerial, social, linguistic, cultural and ethical aspects of and collaboration on construction works

Skills

The graduate should be able to:

- assess and use relevant methods for management, project design, planning and execution of complex construction tasks, including digital programs and systems;
- select relevant method and substantiate the choice within the profession area
- evaluate, combine and include relevant research knowledge to solve complex technical construction issues
- disseminate knowledge of technical research and development to relevant parties via relevant media
- assess business-related and organisational issues
- assess and understand human, environmental, financial and technological matters in respect of constructions, including aspects of energy, working environment and sustainability

Competences

The graduate should have the competences to:

- manage, design, plan and execute complex construction tasks independently and in collaboration with other professionals
- identify their own knowledge and learning needs so as to acquire new knowledge and translate this into professionally relevant practise
- handle communications between users, clients, consultants, designers and contractors about technical planning, procurement and implementation of complex building and/or construction tasks
- handle administrative tasks and project management within the building and construction area
- handle societal and technological aspects in the design of and working on building projects
- handle social, cultural and ethical aspects in the design of and working on building projects
- take part in management and collaboration contexts with others who have another educational, linguistic and cultural background

2.4.1.3 ECTS points

The bachelor project comprises 20 ECTS points out of the 210 total ECTS points for the programme.

2.4.1.4 Exams

The bachelor project is concluded with one exam (see further under exams).

2.5 Credit transfer for compulsory programme elements and internship

The purpose of credit transfer is that it gives a student a chance to build on already acquired qualifications and a chance to avoid the waste of resources related to repeated education, both to the student and to society in general. Students are entitled to credit transfer if the conditions are met.

Credit transfer is the result of the institution's assessment of whether previous education programmes correspond to theoretical parts of the Architectural Technology and Construction Management programme and of whether qualifications achieved through employment correspond to the outcomes laid down for the internship that is part of the study programme. Credit transfer is granted as an actual reduction of the time spent on completing the education or as an exemption from parts of the programme – depending on how the programme is specifically planned. Credit transfer for parts of a study programme requires a high degree of identity between previously completed education and internship courses and the Architectural Technology and Construction Management programme.

The credit transfer assessment is made on the basis of documented and completed education and employment. Documentation of completed education will normally be formal exam certificates as well as course certificates and diplomas. In relation to employment the documentation will normally be employment contracts, testimonials, etc.

Credit transfer can only be given based on formal documentation.

Complaints about decisions to reject an application for credit transfer can be brought before the Qualifications Board.

3 CURRICULUM – INSTITUTION-SPECIFIC PART

The institution-specific part consists of rules specific to the Architectural Technology and Construction Management programme at VIA University College. These rules have been set by VIA University College.

Please note that similar or equivalent programmes at other institutions may apply other rules. All offers of the study programme at VIA University College are covered by the rules in this curriculum.

3.1 Elective programme elements

In order to complete the Architectural Technology and Construction Management programme a student must pass four elective elements.

The timely placement of the elective programme elements in the study programme is stated in the section about placement of programme elements and internship.

The elective programme elements in the Architectural Technology and Construction Management programme are described in the following sections.

3.1.1 1st elective programme element

The student must initiate the elective programme element with his/her gained knowledge, skills and competences which is based on the core areas in the study programme.

3.1.1.1 Contents

In the elective programme element the student has to work partly at his/her own study programme and partly with students from other study programmes.

Through participation in creative, innovative and entrepreneurial processes, the students have to find a solution to a specific cross-disciplinary welfare challenge set by the study programme and one / more external parties. The student is presented to the challenges and then chooses what he/she wants to work with. The students are placed in groups based on their choice of challenge.

The work has to result in project material.

3.1.1.2 Learning objectives

Knowledge

By the end of the elective programme element the student must have knowledge of:

- specific areas of your own undertakings as well as the undertakings of other professions, yours/their competences and responsibility
- core areas in cross-disciplinary professionalism
- essential concepts related to creativity, innovation and entrepreneurship

Skills

By the end of the elective programme element the student must be able to:

- identify particular challenges and ways of acting in cross-disciplinary collaboration
- enter into innovative processes used in cross-disciplinary contexts
- bring your professional knowledge into play in new and innovative ways

Competences

By the end of the elective programme element the student must have the competences to:

- select, delimit, analyse and uncover a building technical topic with relation to the theme of the semester, independently in a for the assignment and profession accepted way

3.1.1.3 ECTS points

This elective programme element awards 5 ECTS points.

3.1.1.4 Exams

This elective programme element concludes with one exam (for further information see exams below).

3.1.2 2nd elective programme element

The student must initiate the elective programme element with his/her gained knowledge, skills and competences which is based on the core areas in the study programme.

3.1.2.1 Contents

The elective programme element is the student's opportunity for shaping the study programme in the direction of either Architectural Technology or Construction Management. Also the student can specialise within an area of his/her own choice.

The student has to independently write a report with a starting point in a topic of his/her choice within the theme of the theme of the compulsory programme element.

The students work with writing the report is supplemented with teaching in Philosophy of Science.

3.1.2.2 Learning objectives

Knowledge

By the end of the elective programme element the student must have knowledge of:

- how reports on building technology constitute part of the working basis within the building trade
- how to collect data, and how to analyse and describe a concrete topic within building technology in such a way that it may possibly constitute the basis for further technical elaboration

Skills

By the end of the elective programme element the student must be able to:

- review collected data analytically (using the philosophy of science) in order to illustrate a subject of own choice within building technology, or in order to solve a concrete task within building technology
- elaborate a report within building technology containing a problem statement, collected data (empirical), analyses, argumentation and conclusion and possibly concrete proposals for a solution

Competences

By the end of the elective programme element the student must have the competences to:

- select, delimit, analyse and uncover a building technical topic with relation to the theme of the semester, independently in a for the assignment and profession accepted way

3.1.2.3 ECTS points

This elective programme element awards 10 ECTS points.

3.1.2.4 Exams

This elective programme element concludes with one exam (for further information see exams below).

3.1.3 3rd elective programme element

The student must initiate the elective programme element with his/her gained knowledge, skills and competences which is based on the core areas in the study programme.

3.1.3.1 Contents

The elective programme element is the student's opportunity for shaping the study programme in the direction of either Architectural Technology or Construction Management. Also the student can specialise within an area of his/her own choice.

The student can organise his/her elective programme element wither by spending the entire period in one course of study or by combining a course of study with a shorter project course.

Independently or in a group, the student has to choose one of the following courses of study if the student chooses to shape the study programme in the direction of *Architectural Technology*:

- a. Energy Sustainable Renovation and Conversion
- b. Materials used in Buildings

Independently or in a group, the student has to choose one of the following courses of study if the student chooses to shape the study programme in the direction of *Construction Management*:

- c. Construction and Building site Management
- d. Construction Management

For either of the shaping directions, the student can choose:

- e. Special Cross-disciplinary module

In the course of study Energy Sustainable Renovation and Conversion the student has to carry out a project with a starting point in a specific building project or a renovation project.

In the course of study Materials used in Buildings the student has to carry out a project with a starting point in research of chosen materials.

In the course of study Construction and Building site Management the student has to implement a trade contract with focus on construction and building site management with a starting point in the building project from the compulsory programme element in the semester.

In the course of study Construction Management the student has to implement a trade contract with focus on development of the necessary drawing and descriptive material for craftsmen and manufacturers with a starting point in the building project from the compulsory programme element in the semester.

In the course of study Special Cross-disciplinary module the student has to carry out an external or internal development project in collaboration with a private or public company / organisation.

The shorter project course can be a preliminary study or a field study to the following course of study and can be:

- IP-Programme (Intensive Programme). Typically a project period of 2 weeks, which is partly financed by EU. Smaller groups of students from a number of universities in Europe participates in a mutual project. Notice that it's typically only 5-7 students from VIA, who can participate in a given IP-Programme.
- Study trip / University collaboration. E.g. a workshop in China with focus on energy renovation.
- Local renovation projects. Typically the municipality or other stake holders provide a case for which they want suggestions for a solution from the Architectural Technology and Construction Management programme.
- Specific research. E.g. research/ building design analysis or construction management analysis.

The work has to result in project material.

3.1.3.2 Learning objectives

- a. **The course of study Energy Sustainable Renovation and Conversion e.g. incl. a shorter project course**

Knowledge

By the end of the elective programme element the student must have knowledge of:

- the different types of certification schemes used in relation to sustainable construction

- composition of materials, characteristics, working up, standard specifications, environmental aspects, protection, trade forms, structural aspects, chemistry etc.
- Life Cycle Analyses, LCA
- Life Cycle Costing, LCC
- cradle to cradle, C2C
- how the indoor climate influences a healthy and sustainable building
- the development of architecture in relation to sustainable construction
- layout and operation of a building site, including such aspects as energy sustainable layout and operation as well as the handling of hazardous waste and recyclable materials

Skills

By the end of the elective programme element the student must be able to:

- carry out design work at Detail Design 2 level
- work with certification in renovation projects
- analyse and choose healthy building materials on grounds of and documentation in LCA, LCC and C2C
- elaborate
- carry out energy calculations on the building or selected building components
- arrange the building site, taking sustainable operation into consideration

Competences

By the end of the elective programme element the student must have the competences to:

- select, delimit, analyse and uncover a building technical topic with relation to the theme of the semester, independently in a for the assignment and profession accepted way

b. The course of study Materials used in Buildings e.g. incl. a shorter project course

Knowledge

By the end of the elective programme element the student must have knowledge of:

- material composition, characteristics, working up, standard specifications, environmental aspects, protection, trade forms, structural aspects, chemistry etc.
- and knowledge about materials used in older buildings, including recyclable materials and materials containing hazardous substances.
- choosing healthy materials – low emission materials
- choosing materials and constructions considering cycle costing as well as knowledge about life cycle analyses.
- operation and maintenance, OM

Skills

By the end of the elective programme element the student must be able to:

- carry out design work at Detail Design 2 level
- analyze materials in older buildings and prepare demolition plans as well as plans for the handling of waste
- prepare plan for recyclable materials in a concrete case
- analyse and choose healthy materials – justifying and documenting such choices
- plan and design such measures to be taken in order to protect the building project against construction moisture and demonstrate knowledge about the moisture content in materials and their moisture sensitivity
- perform overall financial calculations

Competences

By the end of the elective programme element the student must have the competences to:

- select, delimit, analyse and uncover a building technical topic with relation to the theme of the semester, independently in a for the assignment and profession accepted way

c. The course of study Construction and Building site Management e.g. incl. a shorter project course

Knowledge

By the end of the elective programme element the student must have knowledge of:

- construction management in relation to main contracts, individual trade contracts and subcontractors as well as the different tools and methods generally used within the Danish construction industry
- the mentioned types of construction management
- materials used in older buildings, including hazardous materials
- planning of a renovation project and logistics required
- financial management, time and quality from tendering to handing over
- communication and types of collaboration

Skills

By the end of the elective programme element the student must be able to:

- carry out project management in relation to renovation projects
- plan building site layout with respect to logistics and safety

Competences

By the end of the elective programme element the student must have the competences to:

- select, delimit, analyse and uncover a building technical topic with relation to the theme of the semester, independently in a for the assignment and profession accepted way

d. The course of study Construction Management e.g. incl. a shorter project course

Knowledge

By the end of the elective programme element the student must have knowledge of:

- supplier – and contractor design work and quality requirements of documents used when communicating with construction workers
- industrialised building systems, materials, constructions, moisture physics and how such issues are handled during the construction process with respect to buildability and construction.
- materials used in older buildings, including hazardous materials

Skills

By the end of the elective programme element the student must be able to:

- carry out supplier and contractor design work
- Incorporate issues of work environment in the design work (with respect to contractors)

Competences

By the end of the elective programme element the student must have the competences to:

- select, delimit, analyse and uncover a building technical topic with relation to the theme of the semester, independently in a for the assignment and profession accepted way

e. The course of study Special Cross-disciplinary module e.g. incl. a shorter project course

Knowledge, skills and competences are defined individually based on the specific development project.

3.1.3.3 ECTS points

This elective programme element awards 10 ECTS points.

3.1.3.4 Exams

This elective programme element concludes with one exam (for further information see exams below).

3.1.4 4th elective programme element

The student must initiate the elective programme element with his/her gained knowledge, skills and competences which is based on the core areas in the study programme.

3.1.4.1 Contents

The elective programme element is the student's opportunity for shaping the study programme in the direction of either Architectural Technology or Construction Management. Also the student can specialise within an area of his/her own choice.

Den studerende skal selvstændigt udarbejde et projekt eller en skriftlig rapport med udgangspunkt i et selvvalgt emne med relevans for professionen.

Det valgfrie uddannelseselement kan kombineres med det afsluttende eksamensprojekt.

3.1.4.2 Learning objectives

Knowledge

By the end of the elective programme element the student must have knowledge of:

- how building technical reports are developed and part of the building industry's work base
- how data is collected, analysed and used in a specific building technical topic e.g. to be the base for further technical processing
- the most relevant terms within philosophy of science

Skills

By the end of the elective programme element the student must be able to:

- use collected data on an analytical (scientific) base to cover a building technical topic by own choosing or a specific building technical assignment
- develop a building technical report which contains a problem statement, collected data, analyses and interpretations, argumentations and conclusion and e.g. a specific suggested solution
- argue for data collection methods, use these and reflect upon their relevance in the given relation
- develop reports within the scientific genre in an understandable written language

Competences

By the end of the elective programme element the student must have the competences to:

- select, delimit, analyse and uncover a building technical topic with relation to the theme of the semester, independently in a for the assignment and profession accepted way

3.1.4.3 ECTS points

This elective programme element awards 10 ECTS points.

3.1.4.4 Exams

This elective programme element concludes with one exam (for further information see exams below).

3.2 Credit transfer for elective programme elements

Passed educational elements, including internships, from other educational institutions in Denmark equate the equivalent elements in the Architectural Technology and Construction Management programme.

The rules for automatic, compulsory credit transfer, including the obligation to inform on passed educational elements from other institutions on the same level, which can be found in Ministerial Order on Academy Profession Programmes and Professional Bachelor Programmes and Ministerial Order on admission to Academy Profession Programmes and Professional Bachelor Programmes also apply to elective elements on the Architectural Technology and Construction Management programme.

Credit transfer for elective elements are awarded based on a professional evaluation of whether or not the passed elements or prior work experience match the level and contents of one or more elements in the Architectural Technology and Construction Management programme.

Application for credit transfer has to be submitted to the study programme's student counselor no later than 14 days before the start of the programme element.

The following has to be stated in the application:

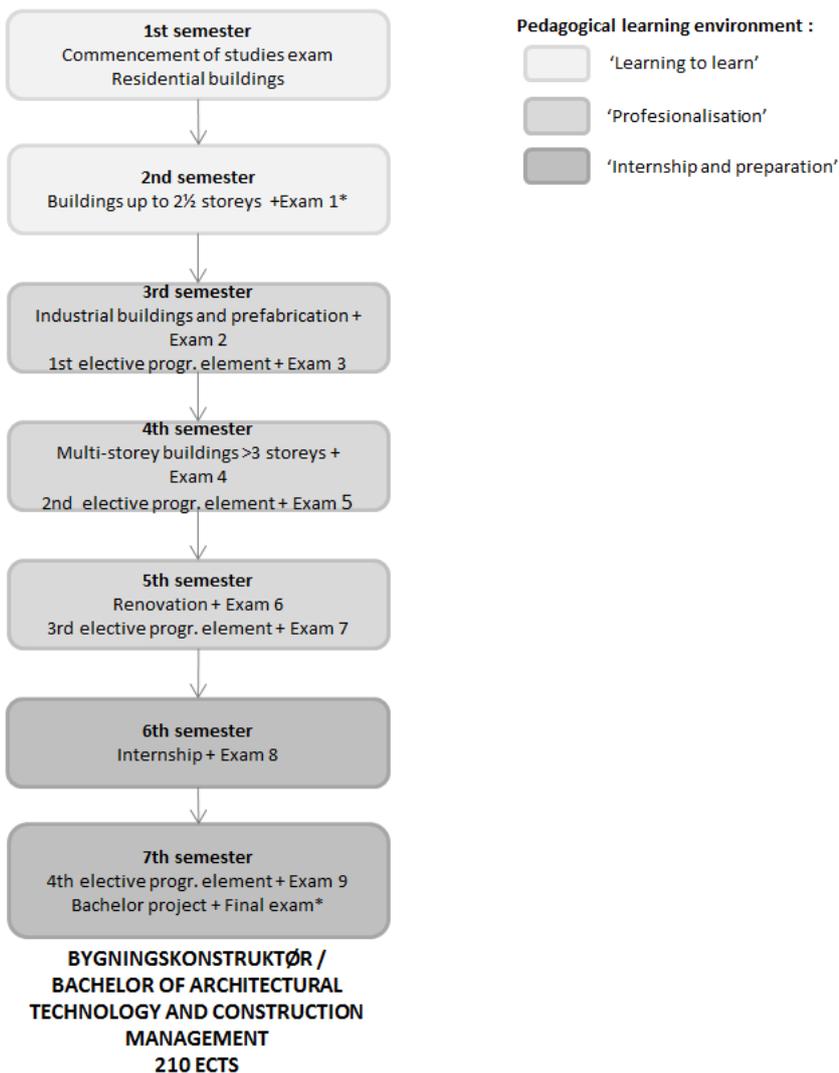
- The applicant's full name
- The applicant's social security number

- Which programme element the credit transfer is for
- Documentation of the applicant's achieved knowledge, skills and competencies corresponding to the content of the programme element

3.3 Placement of programme elements and internships, including exams, in the programme structure

The Architectural Technology and Construction Management programme is a full time higher education. Students who follow the standard study programme structure will follow the below progression as illustrated in the following figure:

Figure 3: Placement of programme elements and exams and indication of the pedagogical learning environments



Reference: Own creation

Note: '+' indicates participation of an external examiner

Otherwise referring to the structure and contents of the study programme in the above chapters.

The Architectural Technology and Construction Management programme can deviate from the above progression in the case of periods of extended illness, maternity/paternity leave or for other valid reasons. In such cases a student will not follow the above progression. Likewise a student who's progression has been altered cannot be assured to follow the programme with the same group of students.

3.4 Parts of the study programme which can be completed abroad (exchange)

The following semesters can be completed abroad by application to and in agreement with the Architectural Technology and Construction Management programme, VIA University College:

- 3rd semester
- 4th semester
- 5th semester
- 6th semester
- 7th semester

Application for completing a programme element abroad must be registered in VIAs online registration system MoveOn no later than the 20th of March (for the autumn semester) and the 20th of September (for the spring semester).

The applicant has to use the current template (can be found on Studynet) for information of:

- Personal information
- Contact information in the case of an accident
- Educational background and wanted course
- Linguistic background
- Special needs

Furthermore, the applicant has to upload his/her Transcript of Records, a copy of his/her passport or other picture ID, copy of the blue health insurance card (if Danish), certificate from a possible linguistic test, possibly a motivational letter, and possibly a CV.

Students must have achieved a mark of minimum 7 in the previous semester to be accepted for exchange. If a student wants to take more than one semester on exchange, the Head of Department must approve it.

Application for completing an internship abroad must be registered in VIAs online registration system the Internship portal no later than the end of the 16th teaching week in the semester before the internship.

The following has to be stated in the application:

- The company (name, address, postal code, city, mail address, phone number, country)
- The specific internship (name, address, postal code, start date, end date, personal learning objectives)
- The contact person in the internship company / the internship counselor (first name, last name, mail address)

3.5 Internship

In order to complete a period of internship as part of the Architectural Technology and Construction Management programme a student must comply with the specific objectives for the internship.

The internship company and the intern's personal learning objectives are approved when the internship coordinator or an appointed UC-teacher has approved the internship agreement which the student and the internship company have developed in the Internship portal.

The intern is responsible for:

- establishing contact to the internship company and make an internship agreement before the internship, including formulating the learning objectives
- plan the learning in the internship in collaboration with the internship company
- keep a logbook over his/her internship
- develop four internship reports

The Architectural Technology and Construction Management programme can help the student with the above.

The Logbook has the entail a short description of the theoretical and practical work assignments which the intern has solved in each week either independently or in collaboration with others, and a short reflection of achieved learning by solving the respective assignments during the internship.

The first report (of max. three A4 pages) has to cover:

- a reasoned description of the intern's personal learning objectives for the internship
- a description of the internship company (e.g. department) and its work areas
- a description of the work and responsibility areas of a bachelor of architectural technology and construction management especially in relation to other professions within the industry (as the intern has been in contact with during the internship)

The second and third report (each of max. three A4 pages) has to cover:

- a description of how the intern has worked with the personal learning objectives during the internship and an evaluation of the result
- a description of and reflection of a problem that the intern has met at the internship company which is relevant for the intern's personal learning objectives
- possibly a discussion of the internship in relation to the elective programme element and the bachelor project in the 7th semester

The fourth report (of max. three A4 pages) has to cover:

- reflections upon whether the education has resulted in the intern achieving the necessary competencies to handle the specific assignments
- reflections upon whether the intern has reached his/her personal learning objectives during the internship
- information of the intern's choice of topic for the elective programme element, possibly in collaboration with the internship company

Furthermore, current formal standards are described later.

Students are obliged to participate in the entire internship period.

It is a prerequisite for final assessment of the internship, that student have participated in at the entire internship, not including periods of illness etc.. That is, that the intern in a total has 20 weeks in internship corresponding to 30 ECTS.

If an internship is terminated before its completion and if the student does not meet the required objectives at that time, the student must complete the internship at another institution/company. If this is not possible at that particular point in time, the internship is not evaluated and the student has to extend his/her education with a new internship. This may mean that the student is not entitled to SU during the entire education.

3.5.1 Role of the internship company

It is the internship company's responsibility to ensure that the necessary conditions for the students to fulfill the objectives of the internship are met.

The internship company is expected to:

- have knowledge of the study programme and a bachelor of Architectural Technology and Construction Managements work fields
- be a building technical relevant environment
- offer the intern the necessary coaching, guidance and following feedback
- have an owner or staff with academic relevant competences (e.g. bachelor of Architectural Technology and Construction Management, architects or engineers)
- enter a written internship agreement with the student which contains a description of learning objectives
- plan the learning in the internship in collaboration with the intern
- ensure that the intern is covered by the same work environment, insurance, and safety relations as the other staff
- designate a person which is the interns internship counselor, hence participates in a written evaluation of the internship for quality assurance and development of the study programme

The internship company must ensure that the students internship in the appropriate and in a productive manner. The company can, perhaps assisted by a UC-teacher from the study programme, contact a student

which the institution/company believe cannot fulfill the objectives of the internship or who does not work towards fulfilling the objectives in a productive manner in order to counsel the student.

It is not up to the internship company to assess whether an intern is suitable for work as a bachelor in Architectural Technology and Construction Management upon completing the study programme.

The internship company is obliged to refrain from terminating the internship before the Architectural Technology and Construction Management programme, VIA University College has been consulted and the possibilities for an alternative solution have been discussed.

3.6 Exams in the study programme

Exams in the Architectural Technology and Construction Management programme is conducted in Danish or English by agreement between the student and the study programme. The student's skills in spelling and articulation will be weighted in the assessment of the bachelor project as a smaller part.

The Architectural Technology and Construction Management programme offer special conditions for exams to students with special needs, e.g. health issues to ensure that these have the possibility to complete exams on equal footing with students without such needs.

Special conditions for exams are offered to students on an individual basis based on an application. The study programme assesses the merits of each application and decides if and to what extent special conditions are warranted. Special conditions can only ensure that students with special needs have the possibility to complete exams on equal footing with students without such needs. The level of the exam as well as the objectives and criteria for assessment of the performance on exams can never be altered by an offer for special conditions.

Application of special conditions has to be sent to the study programme's student counselor no later than one month before the exam is carried out.

The following has to be stated in the application:

- The applicant's full name
- The applicant's student number
- Which exam the special conditions regard and to what extent
- Argumentation for the need for special conditions

3.6.1 The exams

Each exam in the Architectural Technology and Construction Management programme is assessed on the basis of the learning objectives of one or more programme elements. Which elements' objectives are assessed is found in the table below and under the description of each individual exam.

Table 1: Exams and their basis

Exam	The basis for the exam
Commencement of studies exam	(no basis for the exam)
Exam 1* (First-year exam)	The project work regarding Buildings up to 2½ storeys and Portfolio
Exam 2	The project work regarding Industrial buildings and prefabrication and Portfolio
Exam 3	The presentation of the project work regarding the 1st elective programme element
Exam 4	The project work regarding Multi-storey buildings >3 storeys and Portfolio
Exam 5	The report regarding the 2nd elective programme element

Exam 6	The project work regarding Renovation
Exam 7	The project work regarding the 3rd elective programme element
Exam 8	A logbook and four reports
Exam 9	The project work regarding the 4th elective programme element
The final exam*	The bachelor project

Reference: Own creation

Note: * indicates participation of an external examiner

At the start of each educational element a student is automatically registered for any exams in that particular element. By being registered for an exam a student uses an exam attempt.

In accordance with the Ministerial Order on Examinations, it is not possible to unregister for an exam in any other case than what is described in the Ministerial Order § 7.

3.6.1.1 Commencement of studies exam

In the Architectural Technology and Construction Management programme a commencement of studies exam is held within 2 months from study start.

The commencement of studies exam is organised with a written and an oral part and is assessed in total, with passed/not passed without external examiner.

The object of the exam is to show whether a student has started the study programme in earnest. Furthermore the Architectural Technology and Construction Management programme weight that the commencement of studies exam supports the students who have started the study programme in earnest get a good study start.

Re-exam is carried out as the exam after a short period.

Re-examinations are planned within 3 months from study start. The commencement of studies exam is not covered by the rules for complaints set in this curriculum and Ministerial Order on Examinations on Professionally Oriented Higher Education Programmes.

A student who does not pass the commencement of studies exam in two attempts is terminated from the programme in accordance with the rules in Ministerial Order on Admissions to Academy Profession Programmes and Professional Bachelor Programmes.

3.6.1.2 Exam 1

The exam is assessed according to the leaning objectives in the compulsory programme elements Residential buildings and Buildings up to 2½ storeys.

The basis for the exam is the project work regarding Buildings up to 2½ storeys and Portfolio. It is a prerequisite for participating in the exam that the basis for the exam has been submitted within the deadline. Current formal standards are described later.

Furthermore, it is a prerequisite for participating in the exam that the requirements for study activity and any obligation to participate in the programme has been met (see the section about study activity).

The exam is an oral group exam. The exam is assessed individually.

The exam is assessed with a mark according to the 7-step scale and with the participation of an external examiner.

Re-exam is carried out individually but otherwise at the exam, after a short period where the student has an opportunity for improving the basis for the exam.

3.6.1.3 Exam 2

The exam is assessed according to the learning objectives in the compulsory programme element Industrial buildings and prefabrication.

The basis for the exam is the project work regarding Industrial buildings and prefabrication and Portfolio. It is a prerequisite for participating in the exam that the basis for the exam has been submitted within the deadline. Current formal standards are described later.

Furthermore, it is a prerequisite for participating in the exam that the requirements for study activity and any obligation to participate in the programme has been met (see the section about study activity).

The exam is an oral group exam. The exam is assessed individually.

The exam is assessed with a mark according to the 7-step scale without participation of an external examiner.

Re-exam is carried out individually but otherwise at the exam, after a short period where the student has an opportunity for improving the basis for the exam.

3.6.1.4 Exam 3

The exam is assessed according to the learning objectives in the 1st elective programme element.

The basis for the exam is the presentation of the project work regarding the 1st elective programme element. It is a prerequisite for participating in the exam that the basis for the exam has been submitted within the deadline. Current formal standards are described later.

Furthermore, it is a prerequisite for participating in the exam that the requirements for study activity and any obligation to participate in the programme has been met (see the section about study activity).

The exam is an oral group exam. The exam is assessed individually.

The exam is assessed passed / not passed without participation of an external examiner.

Re-exam is carried out individually but otherwise at the exam, after a short period where the student has an opportunity for improving the basis for the exam.

3.6.1.5 Exam 4

The exam is assessed according to the learning objectives in the compulsory programme element Multi-storey buildings >3 storeys.

The basis for the exam is the project work regarding Multi-storey buildings >3 storeys and Portfolio. It is a prerequisite for participating in the exam that the basis for the exam has been submitted within the deadline. Current formal standards are described later.

Furthermore, it is a prerequisite for participating in the exam that the requirements for study activity and any obligation to participate in the programme has been met (see the section about study activity).

The exam is an oral group exam. The exam is assessed individually.

The exam is assessed with a mark according to the 7-step scale without participation of an external examiner.

Re-exam is carried out individually but otherwise at the exam, after a short period where the student has an opportunity for improving the basis for the exam.

3.6.1.6 Exam 5

The exam is assessed according to the learning objectives in the 2nd elective programme element.

The basis for the exam is the report regarding the 2nd elective programme element. It is a prerequisite for participating in the exam that the basis for the exam has been submitted within the deadline. Current formal standards are described later.

The exam is a written individual exam. The exam is assessed individually.

The exam is assessed with a mark according to the 7-step scale without participation of an external examiner.

Re-exam is carried out individually but otherwise at the exam, after a short period where the student has an opportunity for improving the basis for the exam.

3.6.1.7 Exam 6

The exam is assessed according to the learning objectives in the compulsory programme element Renovation.

The basis for the exam is the project work regarding Renovation. It is a prerequisite for participating in the exam that the basis for the exam has been submitted within the deadline. Current formal standards are described later.

Furthermore, it is a prerequisite for participating in the exam that the requirements for study activity and any obligation to participate in the programme has been met (see the section about study activity).

The exam is an oral group exam. The exam is assessed individually.

The exam is assessed with a mark according to the 7-step scale without participation of an external examiner.

Re-exam is carried out individually but otherwise at the exam, after a short period where the student has an opportunity for improving the basis for the exam.

3.6.1.8 Exam 7

The exam is assessed according to the learning objectives in the 3rd elective programme element.

The basis for the exam is The project work regarding the 3rd elective programme element. It is a prerequisite for participating in the exam that the basis for the exam has been turned in before the d been submitted within the deadline. Current formal standards are described later.

Furthermore, it is a prerequisite for participating in the exam that the requirements for study activity and any obligation to participate in the programme has been met (see the section about study activity).

The exam is either a written group exam or a written individual exam. The exam is assessed individually. If the exam is carried out as a written group exam, each student's contribution to the basis for the exam has to be stated clearly.

The exam is assessed with a mark according to the 7-step scale without participation of an external examiner.

Re-exam is carried out individually but otherwise at the exam, after a short period where the student has an opportunity for improving the basis for the exam.

3.6.1.9 Exam 8

The exam is assessed according to the learning objectives in the internship.

The basis for the exam is a logbook and four reports developed based on the internship. It is a prerequisite for participating in the exam that the entire basis for the exam has been submitted within the deadline. Current formal standards are described later.

Furthermore, it is a prerequisite for participating in the exam that the requirements for study activity and any obligation to participate in the programme has been met (see the section about study activity).

The parts of the exam have the following weight in the total grade for the exam:

- Logbook: 40 %
- Report 1: 15 %
- Report 2: 15 %
- Report 3: 15 %
- Report 4: 15 %

The exam is a written individual exam. The exam is assessed individually.

The exam is assessed with a mark according to the 7-step scale without participation of an external examiner.

Re-exam is carried out individually but otherwise at the exam, after a short period where the student has an opportunity for improving the basis for the exam.

3.6.1.10 Exam 9

The exam is assessed according to the learning objectives in the 4th elective programme element.

The basis for the exam is the project work regarding the 4th elective programme element. It is a prerequisite for participating in the exam that the basis for the exam has been submitted within the deadline. Current formal standards are described later.

Furthermore, it is a prerequisite for participating in the exam that the requirements for study activity and any obligation to participate in the programme has been met (see the section about study activity).

The exam is a written individual exam. The exam is assessed individually.

The exam is assessed with a mark according to the 7-step scale without and with participation internal examiner.

Re-exam is carried out individually but otherwise at the exam, after a short period where the student has an opportunity for improving the basis for the exam.

3.6.1.11 The final exam

The entirety of the programme's learning objectives are assessed in this exam.

The basis for the exam is the bachelor project. It is a prerequisite for participating in the exam that the basis for the exam has been submitted within the deadline and that the project adheres to all standards and criteria as listed in the respective section. Current formal standards are described later.

Furthermore, it is a prerequisite for participating in the exam that the requirements for study activity and any obligation to participate in the programme has been met (see the section about study activity).

All other exams in the programme, including any exams in the programme's internship, must be passed before a student can participate in the final bachelor exam.

The exam is an oral individual exam. The exam is assessed individually. Essential parts of the project have to be presented digitally.

The exam is assessed with a mark according to the 7-step scale and with the participation of an external examiner.

Re-exam is carried out individually but otherwise at the exam, after a short period where the student has an opportunity for improving the basis for the exam.

3.6.2 First-year exam

Exam 1 must be passed before the end of the second year. If the exams have been passed before the start of the second year, the exams are considered to have been passed within the deadline. A student who has not passed the first-year exam cannot continue the programme and will thus be terminated in accordance with the rules in the Ministerial Order on Admissions to Academy Profession Programmes and Bachelor Programmes.

The rules in Ministerial Order on Examinations on Professionally Oriented Higher Education Programmes section 6-(3) cannot be derogated from due to the above requirement to pass the first-year exam within the deadline.

A student cannot transfer to another institution or take a leave of absence before the first-year exam has been passed. This rule does not apply to leave of absence on the basis of illness, maternity/paternity leave, adoption or conscription.

3.6.3 Re-examination

3.6.3.1 Illness

Students who are exempt from participating in a particular exam due to documented illness or other documented reason will be re-examined as soon as possible. Documentation for illness in the form of a medical certificate must be submitted to the Student Administration no later than five business days after the ordinary exam.

Students are automatically registered for the re-examination.

Under certain conditions a re-examination can be the next ordinary exam in the same programme element. This, however, does not apply to re-examinations of the final exam, which must be conducted within the same exam period.

Students are informed of the time and place of re-examinations as soon as possible.

3.6.3.2 Failed attempt

Students who do not pass an exam will be registered for re-examination as soon as possible. If re-examinations are planned due to students being exempt, students who have not passed the exam will be registered for that re-examination.

Students are automatically registered for the re-examination.

Under certain conditions a re-examination can be the next ordinary exam in the same programme element. This, however, does not apply to re-examinations of the final exam, which must be conducted within the same exam period.

Students are informed of the time and place of re-examinations as soon as possible.

3.6.4 Cheating, plagiarism and disruptive behaviour

3.6.4.1 Cheating

Cheating is defined as obtaining or providing unlawful aid in answering any test which is part of an exam.

If cheating is discovered during an exam the involved student(s) will be ordered to leave the exam. If the cheating is confirmed the student(s) involved is/are considered to have used an attempt.

If an exam has been marked before any cheating is confirmed, the mark will be revoked and the exam is considered to have been failed, if the cheating is later confirmed.

Under certain exceptional circumstances cheating can be overlooked if it has not or will not affect the assessment of the exam.

3.6.4.2 Plagiarism

Plagiarism is defined as passing off the work of others as one's own or using one's own, previously assessed, work without stating a reference.

If plagiarism is discovered during an exam the student will be ordered to leave the exam. If the plagiarism is confirmed the student will be considered to have used an attempt.

If an exam has been marked before any plagiarism is confirmed, the mark will be revoked and the exam is considered to have been failed, if plagiarism is later confirmed.

Under certain exceptional circumstances plagiarism can be overlooked if it has not or will not affect the assessment of the exam.

3.6.4.3 Disruptive behaviour

If a student exhibits disruptive behaviour during an exam, the programme can order the student to leave the exam. In cases of minor disturbances a warning is used first.

If a student is ordered to leave an exam due to disruptive behavior, the student is considered to have used an exam attempt.

3.6.4.4 Aggravating circumstances

Under aggravating circumstances the Architectural Technology and Construction Management programme can put a student on probation. With probation follows a warning that any repeat behaviour may result in expulsion from the programme.

3.6.5 Complaints about exams and appeals

3.6.5.1 Complaints about exams

A student can complain about an exam. The complaint must be submitted in writing and include arguments supporting the merits of the complaint. It must be submitted to the Architectural Technology and Construction Management programme no later than 2 weeks after the student has had the chance to learn the results of the exam.

A complaint about an exam can be any and all of the following:

- Complaint about the basis for the exam (written material, questions etc.)
- Complaint about events or actions during the exam (e.g. an examiner's behavior)
- Complaint about the assessment of the exam (the mark, the criteria used for assessment etc.)

The Architectural Technology and Construction Management programme immediately sends any complaints to the examiners who have a deadline of 2 weeks to submit a statement to the case. The examiners must comment on the specific merits and arguments of the case. After receiving statements from the examiners The Architectural Technology and Construction Management programme will forward these to the student who has 1 week to comment.

The Architectural Technology and Construction Management programme, as represented by the head of programme, will make a decision on the case. The decision must be written and include the reasons for the results as well as a deadline for an appeal. A decision on a case concerning a complaint about an exam can have one of the following outcomes:

- An offer of a new assessment (re-assessment) (only applicable to written exams)
- An offer of a new exam (re-examination)
- Dismissal

Only when the examiners agree can a complaint about an exam result in dismissal.

The Architectural Technology and Construction Management programme makes the result of the decision known to the student and the examiners. The student has a deadline of 2 weeks to accept an offer of re-assessment or re-examination. Re-assessment and re-examination must be planned as soon as possible.

Note that both re-assessment and re-examination can result in a lower mark than the original assessment. New examiners are appointed for both re-assessment and re-examination. The new examiners have access to all files and documents from the complaints case.

3.6.5.2 Appeals

A student can appeal a decision on an exam complaint. The appeal will be decided upon by a board of appeals. Set up by the institution. An appeal must be submitted in writing stating the reasons for the appeal and received by the Architectural Technology and Construction Management programme no later than 2 weeks after the decision in the original complaint case.

The appeals board on the Architectural Technology and Construction Management programme set up as an ad hoc board. The board consists of 2 appointed external examiners, 1 teacher and 1 student from the same subject area as the Architectural Technology and Construction Management programme.

The appeals board decides the case based on the material on which the Architectural Technology and Construction Management programme made the original decision as well as the appeal. The appeals board decides one of the following:

- To offer a new assessment (re-assessment) (only applicable to written exams)
- To offer a new examination (re-examination)
- To dismiss the case

The appeals board announces the decision as soon as possible. The Architectural Technology and Construction Management programme forwards the decision to the student.

The student has a deadline of 2 weeks to accept an offer of re-assessment or re-examination. Re-assessment and re-examination must be planned as soon as possible.

Note that both re-assessment and re-examination can result in a lower mark than the original assessment. New examiners are appointed for both re-assessment and re-examination. The new examiners have access to all files and documents from the complaints case.

The appeals board's decision is final and cannot be appealed further.

3.7 Formal standards for assignments and projects

3.7.1 Standards

The student's name and student number must be stated clearly in all exam basis handed in. References have to be indicated as described in the next section.

Project work is drawings and descriptions, possibly digitally.

Reports are written material, which must entail:

- Cover
- Title page (the institution's pre-printed form)
- E.g. pre-word
- Abstract
- Table of contents
- E.g. picture list
- Introduction with a problem statement

- Main section
- Conclusion
- Reference list
- E.g. appendices

In the Architectural Technology and Construction Management programme a page is equal to 2400 characters. Total number of pages is counted from and including the introduction to and including the conclusion.

3.7.2 References

Short quotes (less than 20 words) in written assignments and projects in the Architectural Technology and Construction Management programme must have quotation marks and be italicized.

Long quotes (more than 20 words) in written assignments and projects in the Architectural Technology and Construction Management programme must appear with indented margin, line skip before and after and be italicized.

References in written assignments and projects must follow the below standard:

(The authors last name, year of publication, e.g. side number)

If possible, digital references appears as above otherwise the entire link is stated.

A reference must be made in parenthesis in the text, following the quote.

Incorrect referencing, including omitted references, will be counted as an error and can become the subject of investigations into plagiarism.

3.8 Teaching and workforms in the study programme

The Architectural Technology and Construction Management programme is based on Problembased Learning (PBL). That is, the turning point in each of the compulsory programme elements is one cross-disciplinary project. In the work with the project problems, the student develop and demonstrate gained knowledge, skills and competences across the academic areas of the semester.

To prepare the student as much as possible for the profession, the primary work form is group work.

Other teaching and workforms are organised in relation to the project work. Theory lessons are primarily placed in the beginning of the compulsory programme element, as it is seen as general contributions within the theme of the semester.

Besides from this, the student has to seek and process anything else that might be relevant for carrying out the project.

3.9 Differentiation of teaching

In the Architectural Technology and Construction Management programme teaching is differentiated with a starting point in the students' prerequisites in the following way:

- project work in a group
- individual guidance
- teaching material incl. e-learning objects
- special teaching offers
- elective programme elements
- choice of shaping (Architectural Technology or Construction Management)

3.10 Study activity

Students are obliged to participate in the 1st elective programme element and in the internship.

It is a requirement that the student is study active. e er studieaktiv. A student in the Architectural Technology and Construction Management programme is actively studying as long as the student:

- submit the mandatory assignments
- participates in study programme related meetings and conversations with the counselor
- participates in the exams in the study programme
- by the teaching team is assessed to:
 - o participate actively in the scheduled teaching activities
 - o meet prepared for the scheduled teaching activities
 - o contribute to the group work
 - o be oriented and react to study mail and studynet
 - o contribute to a good study environment

The study programme is mainly project organised with a lot of group work, why it is important for the students learning to participate in the learning environment in the institution.

Failing to meet this obligation can affect a student's right to the Danish Grants and Loans Scheme (SU).

A student who has not passed at least 1 exam within a period of 1 year will be terminated from the programme in accordance with the rules in the Ministerial Order on Admissions to Academy Profession Programmes and Bachelor Programmes. A student will be notified in due time before the termination.

A student can at any time enquire as to the current status of his/her study activity by contacting the teaching team.

3.11 Texts in foreign languages

All teaching and instructions in the Architectural Technology and Construction Management programme is in English.

As part of the programme students are required to read and understand texts in English.- Understanding these texts be a prerequisite for obtaining parts of the learning objectives.

3.12 Changing academic major and transfers

3.12.1 Changing academic major

If a student in a different programme wishes to change his/her academic major to the Architectural Technology and Construction Management programme at VIA University College, an application must be sent to the Architectural Technology and Construction Management programme. See requirements for application of credit transfer in a previous section.

Changing academic major to the Architectural Technology and Construction Management programme requires that the student is eligible for merits for at least an entire programme element and is registered with a different academic programme at the same or higher level.

Changing academic major to the Architectural Technology and Construction Management programme is dependent on whether or not the programme has available study places.

3.12.2 Transfers

Transferring to the Architectural Technology and Construction Management programme at VIA University College from the same programme at another institution requires that the student has passed exams which

are equivalent to the first-year exam in the Architectural Technology and Construction Management programme at VIA University College.

Transferring to the Architectural Technology and Construction Management programme at VIA University College further requires that there are available study places.

3.12.3 Applying for change of academic major or transfer

Applications for changing an academic major or transferring to the Architectural Technology and Construction Management programme at VIA University College must be sent to the study administration no later than 14 days before the start of the programme element.

The following has to be stated in the application:

- The applicant's full name
- The applicant's social security number
- Transcript of Records regarding the Architectural Technology and Construction Management programme
- Enrolment basis
- Information about when the student wish to start

3.13 Leave of absence

Taking a leave of absence means that a student cannot participate in classes, exams or any other activity as part of the Architectural Technology and Construction Management programme during the leave of absence. Upon conclusion of the leave of absence the student resumes his/her studies at the point in the programme, from which the leave started.

If it is not possible to start at that point in the programme the Architectural Technology and Construction Management programme will, if at all possible, provide other educational elements until the normal progression can be resumed, such that the students programme is not extended beyond the prescribed period of study. Only when this is not at all possible can the student in question have periods with no study related activities.

Leave of absence can only be granted for periods of complete educational elements. This does not apply for maternity/paternity leave or leave on the basis of adoption and conscription.

A student cannot receive funds from the Student Grants and Loans Scheme (SU) during leave of absence except in cases of maternity/paternity leave, adoption or conscription.

3.13.1 Maternity/paternity leave, adoption and conscription

The Architectural Technology and Construction Management programme cannot reject an application for leave of absence on the basis of documented maternity/paternity leave, adoption or conscription. The end of a leave of absence should, as far as possible, be planned to coincide with study start or the start of certain educational elements so as to ensure the fewest periods without study related activities as possible as well as the least amount of time where the student does not have access to the Student Grants and Loans Scheme (SU).

3.13.2 Application

An application for a leave of absence must be in writing and stating the reasons for the leave of absence. The Architectural Technology and Construction Management programme can ask that the application is submitted on a special form, which can be digital.

Leave of absence for any other reason than maternity/paternity leave, adoption or conscription can only be applied for after the student has passed the first-year exam.

Leave of absence cannot take effect retroactively and application must be submitted no later than 14 days before the start of the leave.

3.14 Parallel programmes

The Architectural Technology and Construction Management programme offer parallel programmes as Double degree.

The Architectural Technology and Construction Management programme at VIA University College has collaboration agreements with a number of institutions in great parts of the world regarding the opportunity for exchange and with the following regarding carrying out Double degrees:

- Universidad Politecnica de Valencia (Spain)
- Universitat Politècnica de Catalunya, Barcelona (Spain)
- Kaunas University of Applied Engineering Sciences (Lithuania)
- HAMK University of Applied Sciences (Finland)

A Double degree gives the student the opportunity for achieving a VIA Bachelor in Architectural Technology and Construction Management together with an acknowledged Diploma from a foreign institution.

The programmes available are described below. Further information about a specific programme can be found in the agreement contracts.

Some of the programmes entail a study extension. This may mean that the student is not entitled to SU during the entire education.

At *Universitat Politècnica de Valencia* the student also achieves a diploma as Bachelor in Technical Architecture.

If the student has started in the autumn (August) he/she has to complete the 1st-5th semester at VIA Architectural Technology and Construction Management according to this curriculum. Afterwards, the student has to complete the 6th-8th semester at the foreign institution with the following modules:

- Prevention and Safety I
- Construction Equipment Management
- Budget Management Techniques
- Building Project I
- Building Project Execution
- Construction Technology V
- Construction Technology VI
- Building Inspection and property valuation
- Quality Control in the Building Process
- Prevention and Safety II
- Building Project II
- Project Management
- Practical Placement I
- Practical Placement II
- Bachelor Final Project

This Double degree course entails that the study programme lasts a total of 4 years.

If the student has started in the spring (February) he/she has to complete the 1st-6th semester at VIA Architectural Technology and Construction Management according to this curriculum. Afterwards, the student has to complete the 6th-8th semester at the foreign institution with the following modules:

- Prevention and Safety I
- Construction Equipment Management
- Budget Management Techniques
- Building Project I
- Building Project Execution

- Construction Technology V
- Construction Technology VI
- Building Inspection and property valuation
- Quality Control in the Building Process
- Prevention and Safety II
- Building Project II
- Project Management
- Bachelor Final Project
- Electives from year 4 (optional)

This Double degree course entails that the study programme lasts a total of 4.5 years.

At *Universitat Politècnica de Catalunya, Barcelona, Spain* the student also achieves a diploma as Bachelor Degree in Architectural Technology and Building Construction.

This is only a possibility for students who have started in the autumn (August). The student has to complete the 1st-6th semester at VIA Architectural Technology and Construction Management according to this curriculum. Afterwards, the student has to complete the 6th-8th semester at the foreign institution with the following modules:

- Construction materials II
- Expression III
- Quality in Building Process
- Historical Study and Graphic Representation for Rehabilitation
- Diagnosis for Rehabilitation
- Rehabilitation Projects
- Bachelor's Final Project (that includes a workshop at one of EPSEB's laboratories + Dissertation)

This Double degree course entails that the study programme lasts a total of 4 years.

At *Kaunas University of Applied Engineering Sciences* the student also achieves a diploma as Professional Bachelor Degree of Civil Engineering.

This is only a possibility for students who have started in the autumn (August). The student has to complete the 1st-4th semester at VIA Architectural Technology and Construction Management according to this curriculum. Afterwards, the student has to complete the 6th-7th semester at the foreign institution with the following modules:

- Construction Calculation
- Sustainable Renovation technology
- Sustainable Construction technology
- Methodology of applied research
- Renovation/conversion project
- Practical Placement
- Bachelor final examination Project
- Dissertation

This Double degree course entails that the study programme lasts a total of 3.5 years.

Application for participation in a parallel programme has to happen as a registration in VIAs online registration system MoveOn no later than the 1st of June (for the autumn semester) and the 1st of November (for the spring semester). Requirements for the application are described in VIAs online registration system MoveOn.

The applicant has to use the current template (can be found on Studynet) for information of:

- Personal information
- Contact information in the case of an accident
- Educational background and wanted course
- Linguistic background
- Special needs

Furthermore, the applicant has to upload his/her Transcript of Records, a copy of his/her passport or other picture ID, copy of the blue health insurance card (if Danish), certificate from a possible linguistic test, possibly a motivational letter, and possibly a CV.

The Student counselor and International office can be contacted regarding further information about parallel programmes.

3.15 Dispensations

The Architectural Technology and Construction Management programme can make dispensations from any rule in both the common and institution-specific parts of this curriculum, when this is based on unusual conditions.

3.16 Entry into force and transition rules

3.16.1 Entry into force

This curriculum enters into force from the onset of the academic year autumn 2016. Any prior curriculum for the Architectural Technology and Construction Management programme is repealed from this time forward.

3.16.2 Transition rules

Students who at the time of entry into force of this curriculum are/were covered by a prior curriculum for the Architectural Technology and Construction Management programme can complete the programme in accordance with the rules set forth in that curriculum until the end of the academic year spring 2018. From that point on the programme can only be completed in accordance with the rules in this curriculum.

3.17 Legal basis

This curriculum is based on the following legal documents:

- The Academy Profession Programmes and Bachelor Programmes Act no. 986 of 18/08/2017
- Ministerial Order no. 1047 of 30/06 2016 on Academy Profession Programmes and Bachelor Programmes
- Ministerial Order on the Construction Technology programme order no. 715 of 07/07 2009
- Ministerial Order no. 1495 of 11/12/2017 on Admission to Academy Profession Programmes and Bachelor Programmes
- Ministerial Order no. 1500 of 02/12 2016 on Examinations on Professionally Oriented Higher Education Programmes
- Ministerial Order on Examinations on Professionally Oriented Higher Education Programmes no.114 of 03/02 2015
-