



Curriculum for

The Architectural Technology and Construction
Management programme and the Building Technology
programme

Institutional part

Effective date of the curriculum

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Please note: This is a translation of the Danish curriculum for the Architectural Technology and Construction Management programme and intended for information purposes only. In the event of any discrepancy between this translation and the Danish original, the Danish text shall prevail.

1. Institutional part of the curriculum for the architectural technology and construction management and building technology programme, UCN

The curriculum for the study programme consists of two parts (sets of regulations):

1. The national part
2. The institutional part

The national part is prepared by the educational network for the study programme in order to ensure that the academic content of parts of the programme is identical across all educational institutions.

The institutional part is prepared by the study programme at the University College of Northern Denmark (UCN) and is designed to accommodate local and regional needs.

The institutional part of the curriculum (as well as the national part) has been approved by the UCN in accordance with all applicable regulations, including the Ministerial Order on technical and mercantile Academy Profession degree programmes and professional Bachelor degree programmes (*Bekendtgørelse om tekniske og merkantile erhvervsakademiuddannelser og professionsbacheloruddannelser*).

In the event of any discrepancy between this curriculum and other regulations governing the study programme, the other regulations take precedence.

1.1 ECTS credit distribution for the study programme

The ECTS credit distribution for the architectural technology and construction management study programme

Educational elements		1st sem.	2nd sem.	3rd sem.	4th sem.	5th sem.	6th sem.	7th sem.
National subject elements	Organisation and business understanding (10 ECTS credits)		5 ECTS credits	5 ECTS credits				
	Communication and collaboration (25 ECTS credits)	10 ECTS credits	5 ECTS credits	5 ECTS credits	5 ECTS credits			
	Production (35 ECTS credits)	5 ECTS credits	10 ECTS credits	10 ECTS credits	5 ECTS credits	5 ECTS credits		
	Project planning (45 ECTS credits)	15 ECTS credits	10 ECTS credits	5 ECTS credits	5 ECTS credits	10 ECTS credits		
	115 ECTS credits total	30 ECTS credits	30 ECTS credits	25 ECTS credits	15 ECTS credits	15 ECTS credits	0 ECTS credits	0 ECTS credits
Local subject elements	Production (5 ECTS credits)				2.5 ECTS credits	2.5 ECTS credits		
	Project planning (5 ECTS credits)				2.5 ECTS credits	2.5 ECTS credits		
	10 ECTS credits total				5 ECTS credits	5 ECTS credits		
Elective educational elements	Production (15 ECTS credits)				5 ECTS credits	5 ECTS credits		5 ECTS credits
	Project planning (15 ECTS credits)			5 ECTS credits	4 ECTS credits	4 ECTS credits		2 ECTS credits
	Organisation and business understanding (5 ECTS credits)				1 ECTS credit	1 ECTS credit		3 ECTS credits
	35 ECTS credits total			5 ECTS credits	10 ECTS credits	10 ECTS credits		10 ECTS credits
Internship	30 ECTS credits						30 ECTS credits	
Bachelor's degree project	20 ECTS credits							20 ECTS credits
Total	210 ECTS credits	30 ECTS credits	30 ECTS credits	30 ECTS credits	30 ECTS credits	30 ECTS credits	30 ECTS credits	30 ECTS credits

The ECTS credits distribution for the Building Technology programme

Educational elements		1st sem.	2nd sem.	3rd sem.	4th sem.
National subject elements	Organisation and business understanding (10 ECTS credits)		5 ECTS credits	5 ECTS credits	
	Communication and collaboration (20 ECTS credits)	10 ECTS credits	5 ECTS credits	5 ECTS credits	
	Production (25 ECTS credits)	5 ECTS credits	10 ECTS credits	10 ECTS credits	
	Project planning (30 ECTS credits)	15 ECTS credits	10 ECTS credits	5 ECTS credits	
	85 ECTS credits total	30 ECTS credits	30 ECTS credits	25 ECTS credits	
Elective educational elements	Production (0 ECTS credits)				
	Project planning (5 ECTS credits)			5 ECTS credits	
	Organisation and business understanding (0 ECTS credits)				
	Total 5 ECTS credits			5 ECTS credits	
Internship	15 ECTS credits				15 ECTS credits
Final degree project	15 ECTS credits				15 ECTS credits
Total	120 ECTS credits	30 ECTS credits	30 ECTS credits	30 ECTS credits	30 ECTS credits

2. Distribution and timing of national and local subject elements, internship and exams

The overview below applies to the architectural technology and construction management programme:

Sem.	National subject elements	Local subject elements	ECTS credits	Internal/external
1.	Academic aptitude examination		0	Internal
1st and 2nd	Housing construction and Construction up to 2½ storeys		60	External
3.	Commercial fabrication and prefabrication		25	Internal
		Elective educational element	5	Internal

4.	Apartment building construction above 3 storeys		15	Internal
		Elective element and digital days	15	Internal
5.	Refurbishment		15	Internal
		Elective educational element and study abroad	15	Internal
6.	Internship		30	Internal
7.		Elective educational element	10	External
	Bachelor's degree project		20	External
Total ECTS credits			210	

The overview below applies to the building technology programme:

Sem.	National subject elements	Local subject elements	ECTS credits	Internal/external
1.	Academic aptitude examination		0	Internal
1st and 2nd	Housing construction and Construction up to 2½ storeys		60	External
3.	Commercial fabrication and prefabrication		25	Internal
		Elective educational element	5	Internal
4.	Internship		15	Internal
	Final degree project		15	External
Total ECTS credits			120	

All exams are assessed according to the 7-point grading scale. Information about the time and venue for the exams can be found on Pointer.

3. Local subject elements, including electives

In the Architectural Technology and Construction Management Programme, 45 ECTS credits can be used for local subject elements and electives, while 5 ECTS credits can be used on electives in the Building Technology Programme. The educational elements applicable to the 2 programmes are shown in parentheses.

3.1 3rd semester elective educational element (Architectural Technology and Construction Management, Building Technology)

3.1.1 Learning objectives

Knowledge

The student knows how to:

- identify several methods of analysis with regard to work on problem-solving tasks that relate to professionally focused subjects
- identify the difference between qualitative and quantitative data collection methods
- describe their knowledge/reasoning for carrying out a professionally relevant study and its structure

Skills

The student is able to:

- perform source criticism and assess data quality with regard to professionally focused knowledge
- carry out simple procedures with regard to the processing and analysis of quantitative and qualitative data
- collect quantitative/qualitative data in a professionally focused context
- perform simple analyses of practice-related problems

Competencies

The student is able to:

- work in known situations with supervisory guidance with solution proposals and methods in relation to simple, professionally relevant studies
- work in known situations with supervisory guidance regarding the reporting and communication of simple, professionally relevant studies and conclusions

3.1.2 ECTS weight

The subject element is worth 5 ECTS credits.

3.1.3 Content

The students must, based on an explanatory written assignment, document the completion of the learning objectives. The subject element comprises the following subject fields:

Project planning: 5 ECTS credits

3.2 4th semester elective educational element (Architectural Technology and Construction Management)

3.2.1 Learning objectives

Knowledge

The student knows how to:

- describe various methods of analysis connected to problem-based activities regarding professionally focused assignments
- describe qualitative and quantitative data collection methods, including their strengths and weaknesses
- relate problem-based studies and their structures to relevant professionally focused activities

- compare and relate problem-based studies and their structures in relation to profession-focused assignments

Skills

The student:

- can combine collected quantitative and qualitative data
- can combine source-critical assessments of data with the professional context
- can process and analyse quantitative/qualitative data
- can complete analyses of simple practice-related problems
- can explain and utilise quantitative and qualitative data collection methods in connection with the processing of simple professional and practice-related problems

Competencies

The student:

- can, in unknown situations, contribute solution proposals and methods in connection with several relevant professionally focused studies
- can, in unknown situations, independently report and communicate several professionally relevant studies and conclusions

3.2.2 ECTS weight

The subject element is worth 10 ECTS credits.

3.2.3 Content

The aim of the 4th semester is that the students will work on a problem, based on a self-elected subject within the chosen field of knowledge and with methodological emphasis placed on data collection.

The students must, based on a problem-solving written assignment, document the completion of the learning objectives stated above.

The subject element comprises the following subject fields:

Production: 5 ECTS credits

Project planning: 4 ECTS credits

Organisation and business understanding: 1 ECTS credit

3.3 4th semester: Digital Days (DD) (Architectural Technology and Construction Management)

3.3.1 Learning objectives

Knowledge

At the end of the period the student must know about:

- relevant digital tools connected to the project planning, execution and maintenance of construction projects within a multidisciplinary collaboration
- relevant digital tools for communicating a competition project to the developer
- relevant digital standards for data exchanges between various systems
- delivery specifications for construction models

Skills

At the end of the period, the student must be able to:

- select and systematically utilise relevant digital tools connected to the project planning of competition projects within a multidisciplinary collaboration
- select and systematically utilise relevant digital tools for communicating a competition project to the developer
- select and systematically utilise relevant digital standards for data exchanges between various systems
- utilise delivery specifications for construction models

Competencies

At the end of the period, the student must have the competencies to:

- prepare and utilise digital construction information models within a multidisciplinary collaboration
- prepare digital visualisation models for a developer
- extract and transfer data between various digital tools conforming to digital standards

3.3.2 ECTS weight

The subject element is worth 5 ECTS credits.

3.3.3 Content

The purpose of DD is to create a work situation that reflects reality as regards the construction, maintenance, data extraction, data transfer, visualisation and analysis of digital 3D construction information models in a multidisciplinary collaboration between the developer, architect, engineer and contractors.

In addition to the architectural and construction management students, learners and students from other related study programmes will also participate. Representatives from developers, consultancy firms, contractors and software companies may also participate.

During DD a long list of digital tools will be introduced for exploring, testing and development of the digital methods and workflows within construction.

The subject element comprises the following subject fields:

Production: 2½ ECTS credits

Project planning: 2½ ECTS credits

3.4 5th semester elective educational element (Architectural Technology and Construction Management)

3.4.1 Learning objectives

Knowledge

The student knows how to:

- compare and relate methods of analysis connected to problem-based activities regarding professionally focused assignments
- compare qualitative and quantitative data collection methods, including their strengths and weaknesses

Skills

The student is able to:

- explain, utilise and analyse source-critical assessments of data in relation to the professional context
- explain, analyse and utilise quantitative and qualitative data in relation to the professional context
- explain and complete analyses of practice-related problems

Competencies

The student is able to:

- on the basis of studies, independently develop solution proposals and methods in relation to an integrated and systemic professional context
- independently report and communicate professionally relevant studies and conclusions

3.4.2 ECTS weight

The subject element is worth 10 ECTS credits.

3.4.3 Content

The aim of the 5th semester is that the students will work on a problem, based on a self-elected subject within the chosen field of knowledge and with methodological emphasis placed on data processing.

The subject element comprises the following subject fields:

Production: 5 ECTS credits

Project planning: 4 ECTS credits

Organisation and business understanding: 1 ECTS credit

3.5 5th semester: Study trip (Architectural Technology and Construction Management)

3.5.1 Learning objectives

Knowledge:

- the principles of oral and written communication in general and within the profession
- principles and methods for use in collaboration, organisation and learning
- theoretical and methodological issues within the profession

Skills:

- assessing and understanding social, cultural and ethical conditions in relation to the production and the collaboration in executing the same
- applying innovative methods and solutions for presented disciplinary issues
- assessing practice-related and theoretical issues as well as justifying their choice of relevant solution models
- seeking and justifying their choice and use of common professional documentation and standards, research reports and other material that is relevant to the profession
- assessing practice-related and theoretical issues as well as justifying their choice of relevant solution models

Competencies:

- acquiring new knowledge and putting it to practical use in relation to the profession
- managing the disciplinary, timing, financial and legal aspects of projects
- planning, quality assuring and leading the production of complex building and construction projects, independently and in collaboration with other professions
- handling the communication between users, developers, authorities, consultants and executors regarding the production of complex building and construction projects or construction components
- including relevant social, environmental, financial and technological aspects in the production process
- participating in disciplinary and multidisciplinary collaboration
- documenting the planning of their own work based on self-management principles

3.5.2 ECTS weight

The subject element is worth 5 ECTS credits.

3.5.3 Content

Suggestions for description:

A multidisciplinary case from Ho Chi Minh City and/or the Mekong Delta area in Vietnam is worked on with relevant fields of activity within project planning and production.

Students can opt to go on a study trip to Vietnam, or stay in Denmark. The students will work on the same case. Students who go abroad will collaborate with Vietnamese students.

The subject element comprises the following subject fields:

Production: 2½ ECTS credits

Project planning: 2½ ECTS credits

3.6 7th semester elective educational element (Architectural Technology and Construction Management)

3.6.1 Learning objectives

Knowledge

The student knows how to:

- reflect on the use of different analytical methods in relation to the handling of problem-clarifying tasks within a professional context
- reflect on the use of qualitative/quantitative data collection methods, including their strengths and weaknesses
- reflect, provide context and generalise their knowledge on the result of a problem-clarifying study and its structure, derived from a professional/practical problem.

Skills

The student is able to:

- complete quantitative/qualitative data collection, on the basis of hypothetical assumptions, regarding a professional/practical problem
- carry out analyses and discussions, on the basis of hypothetical assumptions, on a professional/practical problem

Competencies

The student is able to:

- independently develop complex solution proposals and methods with regard to professionally relevant studies, based on a structured approach
- independently report and communicate the conclusion of the determined professionally relevant solutions

3.6.2 ECTS weight

The subject element is worth 10 ECTS credits.

3.6.3 Content

The aim of the 7th semester aim is that the students will fulfil the learning objectives, based on a self-elected subject within the chosen field of knowledge.

The subject element comprises the following subject fields:

Production: 5 ECTS credits

Project planning: 2 ECTS credits

Organisation and business understanding: 3 ECTS credits

4. Framework and criteria for study programme examinations

The following describes the framework and criteria for all study programme exams.

4.1 Automatic registration for all exams

A subject element is completed by way of an exam that takes place immediately after the end of the element. When a student commences a subject element, the student will automatically be registered for the ordinary exam for that subject element.

A student cannot withdraw from study programme exams.

If an exam has not been passed, the student will continue to be registered for that particular exam and must attend a re-sit. The student has three attempts at passing an exam. If the exam is not passed after three attempts, the student's enrolment on the programme will be terminated.

However, if the student is on leave of absence during the semester in question, they will not automatically be registered for exams. After the end of a student's leave of absence, they will automatically be registered for the exams that complete the semester they begin on their return, as well as for prior exams, if any, that have not been passed.

It is the student's responsibility to stay informed of the time and venue for exams on the study programme's electronic platform.

Please see the current *UCN Examination Regulations* (undergraduate programmes), which are available on UCN's website.

5. 1st and 2nd semesters

5.1 Academic aptitude examination

5.1.1 Examination procedure

The examination consists of an internal, individual written exam based on reflections on the start of study.

5.1.2 Timing

The academic aptitude examination will take place no later than two months after the start of the study programme.

In case of illness, maternity/paternity leave or exceptional circumstances, the study programme may grant exemption from the deadlines set for passing the exam to individual students. If the student does not pass the exam on the second attempt, the student's enrolment in the study programme will be terminated.

5.1.3 Re-sit

If the student does not pass the academic aptitude examination, the student will be offered a re-sit. This exam will be the same type as the ordinary exam and will be held within a week of the ordinary exam.

5.1.4 Examination language

English

5.1.5 Exam aids

All aids are allowed.

5.2 The examination for the national subject elements during the 1st and 2nd semester: Housing construction and Construction up to 2½ storeys

5.2.1 Examination prerequisites

No prerequisites

5.2.2 Examination procedure

The exam is an externally assessed, combined written and oral examination as well as a combined group and individual examination.

In groups the students will prepare a written and graphical multidisciplinary project, which provides the basis for the examination and assessment. The written and graphical project must be individualised so that it is apparent which sections and graphical materials were prepared by which student.

A group may consist of up to 4 students.

The written and graphical project must be brought to the oral exam, which is a combined group and individual examination. The students will, in groups, prepare a presentation, which is followed by individual examinations. The time distribution between group presentations and the individual examinations can be seen on the UCN learning platform.

The examination is assessed according to the 7-point grading scale. The written, graphical and oral performances are assessed as a whole, leading to a single grade, pursuant to the assessment criteria.

5.2.3 ECTS weight

The examination is worth 60 ECTS credits.

5.2.4 Assessment criteria

The assessment criteria for the exam are the learning objectives for the national subject elements.

The learning objectives are described in the national part of the curriculum.

The project work will be assessed according to the following criteria:

- The discipline-specific knowledge, the solutions applied and documentation of their use

- The assignment solution's multidisciplinary context and clarity
- The selected work method and work process
- The oral presentation and argumentation

5.2.5 Timing

The exam will take place at the end of the 2nd semester.

A student must pass the examination before the end of the 2nd academic year in order to continue their studies.

In case of illness, maternity/paternity leave or exceptional circumstances, the study programme may grant exemption from the deadlines set for passing the exam to individual students.

Further details about time and place and the handing in of the written group project are found on UCN's learning platform.

5.2.6 Examination language

The examination language is English.

5.2.7 Exam aids

All aids are permitted, except during the oral examination.

6. 3rd semester

6.1 The examination for the national subject element in the 3rd semester: Commercial fabrication and prefabrication

6.1.1 Examination prerequisites

No prerequisites

6.1.2 Examination procedure

The exam is an internally assessed, combined written and oral examination as well as a combined group and individual examination.

The students will, in groups, prepare a written and graphical multidisciplinary project, which provides the basis for the examination and assessment. The written and graphical project must be individualised so that it is apparent which sections and graphical materials were prepared by which student.

The group may have up to 5 members.

The written and graphical project must be brought to the oral exam, which is a combined group and individual examination. The students will, in groups, prepare a presentation, which is followed by individual examinations. The time distribution between group presentations and the individual examinations can be seen on the UCN learning platform.

The examination is assessed according to the 7-point grading scale. The written, graphical and oral performances are assessed as a whole, leading to a single grade, pursuant to the assessment criteria.

6.1.3 ECTS weight

The examination is worth 25 ECTS credits.

6.1.4 Assessment criteria

The assessment criteria for the exam are the learning objectives for the national subject element: "Commercial fabrication and prefabrication"

The learning objectives are described in the national part of the curriculum.

The project work will be assessed according to the following criteria:

- Discipline-specific knowledge, the solutions applied and documentation for their use
- The assignment solution's multidisciplinary context and clarity
- The selected working method and working process
- The oral presentation and argumentation

6.1.5 Timing

The exam will take place at the end of the national subject element in the 3rd semester.

6.1.6 Examination language

The examination language is English.

6.1.7 Exam aids

All aids are permitted, except during the oral examination.

6.2 The examination for the elective educational element in the 3rd semester

The elective educational element in the 3rd semester, which comprises 5 ECTS credits, must focus on the professional disciplines that help the student work in an analytical and problem-clarifying way within the subjects of the field of knowledge, with a methodological emphasis on the ability to identify and describe "a problem".

6.2.1 Examination prerequisites

The project report must meet the formal requirements, and it must be submitted correctly and in due time.

Non-compliance with formal requirements has the following consequences:

- the written assignment is rejected
- the assignment is not assessed

If a student does not meet all the prerequisites for the examination, the student will have used one exam attempt, leaving them with two remaining attempts to pass the exam.

Scope of the exam paper: 6 standard pages for the group and 3 standard pages for each individual group member.

The written assignment must contain:

- Statement of the problem
- Each group member submits a research question derived from the statement of the problem
- Process description that displays a fundamental understanding of the method, as well as source-critical insight

The written assignment must be submitted as shown on the learning platform. The assignment is submitted in digital form for plagiarism screening.

6.2.2 Examination procedure

The final assignment of the course is prepared in groups of 4 people at most. The assessment of the student's fulfilment of the learning objectives is based on the combination of the written assignment, an elaborative presentation of selected sub-sets of the assignment, as well as a subsequent group examination. The written and oral performances are assessed as a whole, leading to a single grade.

The examination is internally assessed and graded according to the 7-point grading scale.

6.2.3 ECTS weight

The examination is worth 5 ECTS credits.

6.2.4 Assessment criteria

The students must, based on an explanatory written assignment, document the completion of the learning objectives.

The assessment criteria for the exam are the learning objectives for the elective educational element in the 3rd semester.

The learning outcomes for the subject element are described above.

6.2.5 Timing

The exam takes place at the end of the elective educational element.

6.2.6 Examination language

The examination language is English.

6.2.7 Exam aids

All aids are permitted, except during the oral examination.

7. 4th semester

7.1 The examination for the national subject element in the 4th semester: Apartment building construction above 3 storeys and the local subject element, the digital days

7.1.1 Examination prerequisites

No prerequisites

7.1.2 Examination procedure

The local subject element: "The Digital Days" are integrated into the multidisciplinary project on equal terms with the subject fields of communication, project planning and production.

The exam is an internally assessed, combined written and oral examination as well as a combined group and individual examination.

The students will, in groups, prepare a written and graphical multidisciplinary project, which provides the basis for the examination and assessment. The written and graphical project must be individualised so that it is apparent which sections and graphical materials were prepared by which student.

A group may have up to 6 members.

The written and graphical project must be brought to the oral exam, which is a combined group and individual examination. The students will, in groups, prepare a presentation, which is followed by individual examinations. The time distribution between group presentations and the individual examinations can be seen on the UCN learning platform.

The examination is assessed according to the 7-point grading scale. The written, graphical and oral performances are assessed as a whole, leading to a single grade, pursuant to the assessment criteria.

7.1.3 ECTS weight

The examination is worth 15 ECTS credits + 5 ECTS credits from the local subject element: The Digital Days

7.1.4 Assessment criteria

The assessment criteria for the exam are the learning objectives for the national subject element: "Apartment building construction above 3 storeys" and the learning objectives for the local subject element: "The Digital Days".

The learning objectives are described in the national part of the curriculum and section 3.3.1 (learning objectives for The Digital Days).

The project work will be assessed according to the following criteria:

- Discipline-specific knowledge, the solutions applied and documentation for their use
- The assignment solution's multidisciplinary context and clarity
- The selected working method and working process

- The oral presentation and argumentation

7.1.5 Timing

The exam will take place at the end of the national subject element in the 4th semester.

7.1.6 Examination language

The examination language is English.

7.1.7 Exam aids

All aids are permitted, except during the oral examination.

7.2 The examination for the elective educational element in the 4th semester

In the 4th semester the aim is that the students, based on a self-elected subject within the chosen field of knowledge, focus primarily on data collection.

7.2.1 Examination prerequisites

The project report must meet the formal requirements, and it must be submitted correctly and in due time.

Non-compliance with formal requirements has the following consequences:

- the written assignment is rejected
- the assignment is not assessed

If a student does not meet all the prerequisites for the examination, the student will have used one exam attempt, leaving them with two remaining attempts to pass the exam.

Scope of the exam paper: 6.5 standard pages for the group and 8 standard pages for each individual group member.

The written assignment must contain:

- Statement of the problem
- Explanation of a construction-related problem and presentation of the arguments for its relevance.
- Justified limitation of the scope to form the research question.
- Description and reasoned choice of empirical data, theory and method for answering the research question.
- Description of literature search.
- The selected empirical data and theory are discussed and analysed in relation to the research question of the report.
- Conclusion/context with regard to the research question
- Reference list including all sources used in the report
- Appendices that are key to the report. Appendices are not assessed, and it must be possible to read and understand the report without appendices

The written assignment must be submitted as shown on the learning platform. The assignment is submitted in digital form for plagiarism screening.

7.2.2 Examination procedure

The final assignment of the course is prepared in groups of 4 people at most. The assessment of the student's fulfilment of the learning objectives is based on the combination of the written assignment, an elaborative presentation of selected sub-sets of the assignment, as well as a subsequent group examination.

The written and oral performances are assessed as a whole, leading to a single grade.

The examination is internally assessed and graded according to the 7-point grading scale.

7.2.3 ECTS weight

The examination is worth 10 ECTS credits.

7.2.4 Assessment criteria

The assessment criteria for the exam are the learning objectives for the elective educational element in the 4th semester.

The learning outcomes for the subject element are described above.

7.2.5 Timing

The exam takes place at the end of the elective educational element.

7.2.6 Examination language

The examination language is English.

7.2.7 Exam aids

Books and electronic aids are allowed, although not during the oral part of the examination.

8. 5th semester

8.1 The examination for the national subject element in the 5th semester: Refurbishment and the local subject element: Study trip

8.1.1 Examination prerequisites

No prerequisites

8.1.2 Examination procedure

The local subject element: "Study trip" is integrated into the multidisciplinary project on equal terms with the subject fields of project planning and production.

The exam is an internally assessed, combined written and oral examination as well as a combined group and individual examination.

The students will, in groups, prepare a written and graphical multidisciplinary project, which provides the basis for the examination and assessment. The written and graphical project must be individualised so that it is apparent which sections and graphical materials were prepared by which student.

A group may consist of up to 4 students.

The written and graphical project must be brought to the oral exam, which is a combined group and individual examination. The students will, in groups, prepare a presentation, which is followed by individual examinations. The time distribution between group presentations and the individual examinations can be seen on the UCN learning platform.

The examination is assessed according to the 7-point grading scale. The written, graphical and oral performances are assessed as a whole, leading to a single grade, pursuant to the assessment criteria.

8.1.3 ECTS weight

The examination is worth 15 ECTS credits + 5 ECTS credits for the local subject element: Study trip

8.1.4 Assessment criteria

The assessment criteria for the exam are the learning objectives for the national subject element: "Refurbishment"

The learning objectives are described in the national part of the curriculum.

The project work will be assessed according to the following criteria:

- Discipline-specific knowledge, the solutions applied and documentation for their use
- The assignment solution's multidisciplinary context and clarity
- The selected working method and working process
- The oral presentation and argumentation

8.1.5 Timing

The exam will take place at the end of the national subject element in the 5th semester.

8.1.6 Examination language

The examination language is English.

8.1.7 Exam aids

All aids are permitted, except during the oral examination.

8.2 The examination for the elective educational element in the 5th semester

In the 5th semester the goal is that the students are to work on a problem, based on a self-elected subject within the chosen field of knowledge and with methodological emphasis placed on data processing.

8.2.1 Examination prerequisites

The project report must meet the formal requirements, and it must be submitted correctly and in due time.

Non-compliance with formal requirements has the following consequences:

- the written assignment is rejected
- the assignment is not assessed

If a student does not meet all the prerequisites for the examination, the student will have used one exam attempt, leaving them with two remaining attempts to pass the exam.

Scope of the exam paper: 30 standard pages or a paper of, at most, 5000 words.

The report must include:

- Statement of the problem
- Explanation of a construction-related problem and presentation of the arguments for its relevance.
- Justified limitation of the scope to form the research question.
- Description and reasoned choice of empirical data, theory and method for answering the research question.
- Description of literature search.
- The selected empirical data and theory are discussed and analysed in relation to the research question of the report.
- Conclusion/context with regard to the research question
- Reference list including all sources used in the report
- Appendices that are key to the report. Appendices are not assessed, and it must be possible to read and understand the report without appendices

The written assignment must be submitted as shown on the learning platform. The assignment is submitted in digital form for plagiarism screening.

8.2.2 Examination procedure

The final assignment of the course is prepared in groups of 4 people at most. The assessment of the student's fulfilment of the learning objectives is based on the combination of the written assignment, an elaborative presentation of selected sub-sets of the assignment, as well as a subsequent group examination.

The written and oral performances are assessed as a whole, leading to a single grade.

The examination is internally assessed and graded according to the 7-point grading scale.

8.2.3 ECTS weight

The examination is worth 10 ECTS credits.

8.2.4 Assessment criteria

The assessment criteria for the exam are the intended learning outcomes for the local subject element. Studying abroad in the 5th semester.

The learning outcomes for the subject element are described above.

8.2.5 Timing

The exam takes place at the end of the elective educational element.

8.2.6 Examination language

The examination language is English.

8.2.7 Exam aids

Books and electronic aids are allowed, although not during the oral part of the examination.

9. 7th semester

9.1 The examination for the elective educational element in the 7th semester

9.1.1 Examination prerequisites

The project report must meet the formal requirements, and it must be submitted correctly and in due time.

Non-compliance with formal requirements has the following consequences:

- the written assignment is rejected
- the assignment is not assessed

If a student does not meet all the prerequisites for the examination, the student will have used one exam attempt, leaving them with two remaining attempts to pass the exam.

The written assignment must contain:

- Statement of the problem
- Explanation of a construction-related problem and presentation of the arguments for its relevance.
- Justified limitation of the scope to form the research question.
- Description and reasoned choice of empirical data, theory and method for answering the research question.
- Description of literature search.
- The selected empirical data and theory are discussed and analysed in relation to the research question of the report.
- Conclusion/context with regard to the research question
- Reference list including all sources used in the report
- Appendices that are key to the report. Appendices are not assessed, and it must be possible to read and understand the report without appendices

The written assignment must be submitted as shown on the learning platform. The assignment is submitted in digital form for plagiarism screening.

9.1.2 Examination procedure

The process is concluded with an individual written examination.

The examination is externally assessed according to the 7-point grading scale.

9.1.3 ECTS weight

The examination is worth 10 ECTS credits.

9.1.4 Assessment criteria

The assessment criteria for the exam are the learning objectives for the elective educational element in the 7th semester.

The learning outcomes for the subject element are described above.

9.1.5 Timing

The exam takes place at the end of the elective educational element.

9.1.6 Examination language

The examination language is English.

9.1.7 Exam aids

All aids are permitted.

10. Internship

10.1 6th semester: Internship

10.1.1 Internship requirements and expectations

During the internship, the student works on academically relevant issues while gaining knowledge about relevant work functions. The relationship between theoretical studies and the internship will be the starting point for the student's learning objectives for the internship.

Based on the internship's intended learning outcomes (see the national part of the curriculum) the student and the supervisor/contact person together will define specific goals for the student's internship.

The intended learning outcomes must be made in writing and saved in the student internship portal. These objectives will then guide the planning of the student's work during the internship, including the preparation of the internship report.

The internship period compares to a full-time job with the same requirements in terms of number of working hours, effort, commitment and flexibility that a graduate can expect to meet in their first job.

The internship may be organised in a flexible, varied manner and may form the basis of the student's bachelor's degree project.

10.1.2 Examination prerequisites

The project report must meet the formal requirements, and it must be submitted correctly and in due time.

If the student does not meet the examination prerequisites, the student will have used an examination attempt. This means that the student has two remaining attempts to pass the examination.

10.1.3 Formal requirements for the written internship report

Report section 1: Reporting

- Cover page, indicating name, place of internship, educational institution, internship period and UC-lecturer
- Preface with your signature / room for the company's stamp and the signature of the internship host
- Table of contents
- Introduction, the actual statement and conclusion (standard report layout, as when writing a dissertation)

Report section 2: "Analysis and reflection"

- Introduction to the learning objectives (theme) and problem(s)
- Research question
- Statement of the connection between the research question and the choice of theories and methods
- Theory section, demonstrating knowledge of the central theory in the subject and the ability to compare theories and methods
- Empirical data, observations made "in the field"
- Analysis and interpretation
- Conclusion

The length of the project must at most be 20 standard pages.

A standard page is 2,400 characters, including spaces and footnotes. The cover page, table of contents, reference list and appendices do not count towards the limit.

The report must be prepared by each student individually.

10.1.4 The internship examination

The exam is an internally assessed, oral exam on the grounds of a written internship report, which includes a procedural part, a theoretical part and reflections on the intership.

The assessment is based on the 7-point grading scale. The written and oral performances are assessed as a whole, leading to a single grade.

The examination is worth 30 ECTS credits.

10.1.5 Assessment criteria

The assessment criteria for the exam are the intended learning outcomes for the internship subject element.

The intended learning outcomes are described in the national part of the curriculum.

10.1.6 Timing

The exam will take place at the end of the 6th semester. Further information about the time, venue as well as submission of the written project report can be found on Pointer.

10.1.7 Examination language

The examination language is English.

10.1.8 Exam aids

All aids are permitted, except during the oral examination.

10.2 4th semester, branching off: Internship

10.2.1 Internship requirements and expectations

Based on the internship's learning objectives (see the national section of the curriculum), the student and the supervisor/contact person will collaborate on setting specific objectives for the student's internship.

These objectives will then guide the planning of the student's work during the internship.

The compulsory internship of the Building Technology Programme is scheduled during the programme's 4th semester branch-off and amounts to 15 ECTS credits. The student can complete his/her internship in one or more companies within the professional field, and the choice of internship host may help in giving the individual student a more clearly defined profile. During the internship, the student works on problems that are relevant to the profession and lie within the subject field of the study programme while achieving knowledge of relevant job functions.

The internship is scheduled at the end of the study programme to make it possible for the student to apply his/her acquired skills in practice and thus give the student a knowledge and understanding of practical aspects and applied methods, processes and work-related functions in a company.

The internship can be done abroad.

The internship hosts must be approved by the educational institution, and an internship coordinator and internship supervisor will be designated to monitor the student. Collaboration will take place between the internship coordinator/supervisor, the internship host and the student, with regards to following up on concrete objectives and problems that the student has defined in collaboration with the internship supervisor and the internship host. This will subsequently be normative for the organisation of the student's

work during the internship and be included in the assessment at the final exam (see the section on assessment criteria).

The internship should be considered similar to a full-time job with the same requirements in terms of number of working hours, effort, commitment and flexibility that building technologist graduates can expect to meet in their first job.

The internship may be organised in a flexible and personalised manner and may form the basis of the student's final degree project.

10.2.2 Examination prerequisites

The guidelines for internship implementation can be read in the school's internship guidelines, which are available on UCN's learning platform.

A student must meet the following prerequisites in order to sit the exam:

The requirements of the Internship Portal must be met, e.g. filling in the internship contract, learning objectives, log book, etc.

The written report, which makes up the basis of the assessment and the exam, must meet the formal requirements, and must have been submitted on time, as per the exam plan on UCN's learning platform. Non-performance of just one or more exam prerequisites means that the student cannot sit the exam and that one examination attempt will have been used.

10.2.3 Formal requirements for the written internship report

- Cover page with title
- Title page
- Contents
- Learning objectives defined in the Internship Portal
- Reflections on the learning objectives
- Discussion of positive and negative experiences from the internship
- Conclusion on the achievement of the learning objectives
- Appendices (only include appendices that are key to the report).

The length of the project must be between a minimum of 10 standard pages and a maximum of 20 standard pages.

A standard page is 2,400 characters, including spaces and footnotes. The cover page, table of contents, reference list and appendices do not count towards the limit.

The report must be prepared by each student individually.

10.2.4 The internship examination

The exam is an internally-assessed oral exam on the grounds of a written internship report, which includes a procedural part, a theoretical part and reflections on the internship. The examination is carried out concurrently with the final project.

The assessment is based on the 7-point grading scale. The written and oral performances are assessed as a whole, leading to a single grade.

The examination is worth 15 ECTS credits.

10.2.5 Assessment criteria

The assessment criteria for the exam are the intended learning outcomes for the internship subject element.

The intended learning outcomes are described in the national part of the curriculum.

10.2.6 Timing

The exam will take place at the end of the 4th semester. Further information about the time, venue as well as submission of the written project report can be found on Pointer.

10.2.7 Examination language

The examination language is English.

10.2.8 Exam aids

All aids are permitted, except during the oral examination.

11. Final degree project

11.1 The final bachelor's degree project

For the requirements to the bachelor's degree project as well as learning objectives, please see the national part of the curriculum.

11.1.1 Formal requirements of the examination

The written project comprising the assessment basis and the examination basis must

- meet the formal requirements for the final bachelor's degree project – please refer to the national part of the curriculum
- be submitted on time, i.e. according to the exam schedule on Pointer.

Late submission or failure to meet all formal requirements for the written project report, which constitutes the written part of the examination, implies that the student is not allowed to attend the examination and that they have used one examination attempt.

The exam cannot take place until the internship exam and other study programme exams have been passed.

11.1.2 Examination procedure

The bachelor's degree project must document the student's understanding of and ability to reflect on the profession's practices and use of theories and methods in relation to a practice-related problem. The

statement of the problem, which must be central to the education field and the profession, is prepared by the student and may be prepared in collaboration with a private or public company. The educational institution must approve the statement of the problem.

The bachelor's degree project can be prepared individually or in groups of up to 3 participants and must be prepared on the basis of a practice-related issue approved by the study programme. The student selects credits and formulates the problem statement themselves and, on this basis, carries out the learning tasks so that the student can document their ability to reflect on the profession's practice and application of theory and methods.

The bachelor's degree project is examined as a group exam, with individual external assessment with defence, and will be carried out on the basis of the prepared material, which will either be attached to boards or presented electronically. The student may, however, choose individual examination. Should a student choose individual examination, the study programme must be notified of this at least 14 days prior to the oral defence. The study programme may grant exemption from the time limit in exceptional circumstances.

The exam is assessed and graded according to the 7-point grading scale.

The written, graphical and oral performances are assessed as a whole, leading to a single grade.

The exam is organised as a combination of presentation and examination. The breakdown can be seen in the folder about the exam on UCN's learning platform. Each exam concludes with grading and feedback.

11.1.3 Spelling and writing skills

Spelling and writing skills will be part of the assessment of the written exam project. Spelling and writing skills may, however, only increase or decrease a student's grade by one grade at the most. The assessment is an overall measure of the academic content as well as the student's spelling and expressive ability.

11.1.4 ECTS weight

The examination is worth 15 ECTS credits.

11.1.5 Assessment criteria

The assessment criteria are the intended learning outcomes for the bachelor's degree project, see the national part of the curriculum.

11.1.6 Timing

The exam will take place at the end of the final semester of the study programme. Information about the time and venue for the exam can be found on Pointer.

11.1.7 Examination language

The examination language is English.

11.1.8 Exam aids

All aids are permitted, although not during the oral examination.

11.2 4th semester, branching off: final degree project

For the requirements for the final degree project as well as the learning objectives, please see the national part of the curriculum.

11.2.1 Formal requirements of the examination

The written project comprising the assessment basis and the examination basis must

- meet the formal requirements to the final degree project, see the national part of the Curriculum
- be submitted in due time, as per the exam plan on Pointer, and it must be uploaded to 'UC-Viden'

Late submission or failure to meet all formal requirements for the written project report, which constitutes the written part of the examination, implies that the student is not allowed to attend the examination and that they have used one examination attempt.

The exam cannot take place until the internship exam and other study programme exams have been passed.

11.2.2 Examination procedure

The final degree project must document the student's understanding of and ability to reflect on the profession's practices and use of theories and methods in relation to a practice-related problem. The statement of the problem, which must be central to the education field and the profession, is prepared by the student and may be prepared in collaboration with a private or public company. The education institution must approve the statement of the problem.

The final degree project can be prepared individually or in groups of up to 3 participants and must be prepared on the basis of a practice-related problem statement approved by the study programme. The student selects and formulates the problem statement themselves and, on this basis, carries out the learning tasks in order to document their ability to reflect on the profession's practices and their application of theory and methods.

The final degree project is an individual, externally assessed examination, and will be carried out on the basis of the prepared material, which will either be attached to boards or presented electronically.

The exam is assessed and graded according to the 7-point grading scale.

The written, graphical and oral performances are assessed as a whole, leading to a single grade.

The exam is organised as a combination of presentation and examination. The breakdown can be seen in the folder about the exam on UCN's learning platform. Each exam concludes with grading and feedback.

11.2.3 Spelling and writing skills

Spelling and writing skills will be part of the assessment of the written exam project. Spelling and writing skills may, however, only increase or decrease a student's grade by one grade at the most. The assessment is an overall measure of the academic content as well as the student's spelling and expressive ability.

11.2.4 ECTS weight

The examination is worth 15 ECTS credits.

11.2.5 Assessment criteria

The assessment criteria are the intended learning outcomes for the 4th semester branch-off, see the national part of the curriculum.

11.2.6 Timing

The exam will take place at the end of the final semester of the study programme. Information about the time and venue for the exam can be found on Pointer.

11.2.7 Examination language

The examination language is English.

11.2.8 Exam aids

All aids are permitted, although not during the oral examination.

12. Subject elements that may be completed abroad

Each of the subject elements of the study programme may be completed abroad if a student applies for and is granted pre-approval of credit transfer by the study programme.

In cases of pre-approved study-abroad periods, the student has a duty to document completion of the subject elements upon completion of the study-abroad period. When applying for pre-approval, the student must consent to the educational institution obtaining any required information after the student's completion of the study-abroad period.

On final approval of pre-approved credit transfer, the subject element is considered completed if it was passed according to the regulations governing the study programme.

UCN has a wide network of partner institutions abroad, and UCN's international office can help students who wish to complete part of their study programme abroad. Please contact UCN's international office for more information. However, please note that a study-abroad period requires a considerable amount of preparation on the part of the student. It is the individual student who is responsible for finding out which subjects credits are offered etc. at the higher education institution of their choice. UCN's international office can offer advice etc. but does not go into the detailed planning of a study-abroad period. This is the student's own responsibility.

13. Withdrawal from exams

The regulations for withdrawal from exams can be found on www.ucn.dk/english under Examination Regulations for UCN's Undergraduate Programmes.

14. Applied teaching methods

UCN's approach to learning is called 'Reflective Practice-based Learning'. By *Reflective* we mean that, throughout their studies, students are motivated to develop personal and academic competencies such as the ability to reflect on and assess their own learning outcomes.

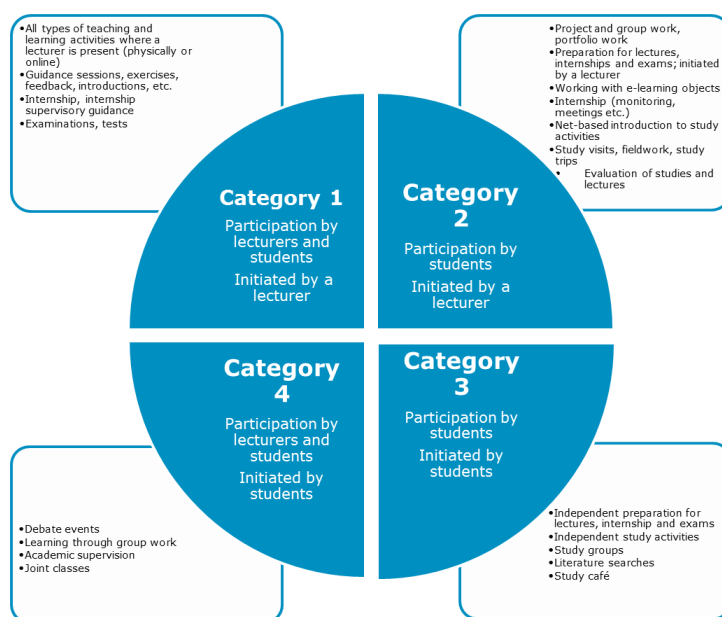
Through systematic feedback processes, studies and contemplation on the profession's current knowledge and practices, the student will qualify himself/herself during the course of his/her studies to become an autonomous, innovative and problem-solving employee in relevant occupational functions. In so doing and as a result of their studies, students will become strongly rooted in the profession/occupation that the study programme targets.

However, learning is not simply the transfer of knowledge from lecturer to student. A fundamental idea on the architectural technology and construction management programme is that the learning process takes place *within* the student and *in relation* to fellow students and lecturers. Another fundamental idea within the study programme is that students learn in different ways. As such, the study programme is based on a range of teaching methods. The study activity model shows the different study activities that are brought into play to help students achieve the learning objectives for the programme. It is important to emphasise, however, that the student must take ownership of their own education processes.

The study activity model for the programme is available on www.ucn.dk and each semester, the syllabus specifies which study activities in the study activity model will take centre stage in the semester in question.

According to the Ministry of Higher Education and Science, a student must achieve "30 ECTS credits of learning" per semester. One ECTS credit equates to 27 working hours for a student. The syllabus gives an overview of the anticipated workload for the various course units/study activities.

The Study Activity Model



As noted, the study programme uses a wide range of teaching and learning methods that – in combination – are intended to support the above and promote the achievement of the learning objectives described in this curriculum. Throughout the study programme, there is clear progression in the teaching and learning methods, from being knowledge-oriented and led by the lecturer, to being problem-oriented and led by the participants.

The learning and teaching activities are also based in relevant occupational practice and link together practice and theory: **Practice-based Learning**. Professional issues and challenges from various types of businesses and enterprises related to the professional disciplines of the study programme will be included in the subject fields of the programme.

The teaching can be organised so that foreign languages are included in the form of teaching materials and in the lessons. In addition, the teaching supports the development of the student's ICT competencies.

15. Compulsory participation and compulsory attendance

In order to achieve the learning objectives/learning outcomes of the study programme and for the associated forms of teaching and learning to work, it is also important to clarify that students are subject to compulsory participation in the shape of

- submission/presentation of assignments/semester examinations/projects etc.

Assignment submission may be expressed as an examination prerequisite.

Non-compliance with compulsory participation/the examination prerequisite, e.g. if a written assignment is rejected or in non-compliance with formal requirements, means that the student will have used an exam attempt. Subsequently, the student will only have two attempts remaining to pass the examination.

The study programme will offer help and guidance as early as possible if a student is neglecting his/her obligations to participate and attend.

15.1 Student counselling

If a student finds it difficult to meet study programme requirements for compulsory participation and attendance they can contact the programme's student counsellor. Students can also turn to the student counsellor if they have questions about the planning and course of their studies, studies abroad etc. Contact information for the student counsellor can be found on www.ucn.dk/english.

15.2 Lecturers as supervisors

Lecturers on the study programme often act as supervisors to the students when it comes to study activities such as project work.

Supervisory guidance is provided because UCN wishes to:

- support the development of a good learning environment
- support social learning processes and constructive collaboration
- support innovation and development
- support study groups to gradually take over the functions of the supervisor at a pace that matches the group's competencies
- Generally, the supervisor will focus on project and learning processes, particularly

1. The content of the project
2. Working methods and processes
3. Group dynamics and processes
4. Learning and metacognition.

16. Criteria for the assessment of study activity

A student's enrolment on a study programme will be terminated if the student has failed to pass at least one exam over a continuous period of at least one year (non-compliance with study activity requirements).

Periods during which a student has not actively participated in their studies due to leave of absence, maternity or paternity leave, adoption of a child, verified illness or military service are not considered as non-compliance with study activity requirements. On request, the student must provide documentation of such matters.

The study programme may grant exemption from these provisions in exceptional circumstances. An application for exemption must be submitted to the head of studies.

The student will be informed in writing before their enrolment is terminated. In connection with such notification, students will be made aware of the above-mentioned regulations.

17. Credit transfer for subject elements

Credit transfer assessments take place in several contexts.

17.1 Subject elements from the same study programme passed at another educational institution

Passed subject elements are equivalent to corresponding subject elements offered by other educational institutions providing the same study programme.

17.2 Credit transfer assessment (compulsory credit transfer) in connection with application for admission/enrolment on a study programme

When a student has met his/her duty to disclose information about passed subject elements from another Danish or foreign higher education programme and about his/her work experience, which may be assumed to be worth transfer credit, the study programme will decide whether to grant transfer credit in each individual case. Transfer credit will be granted for passed educational elements and work experience that can be equalled to course units, elements of a study programme or parts of an internship. The decision whether or not to award credit transfer is based on an academic assessment.

17.3 In the event that a student does not meet their duty to disclose information on admission/enrolment

Twice a year (in July and January, respectively, in connection with the start of studies), any applications submitted by students subsequent to a failure to disclose information about prior education and work

experience on admission/enrolment are assessed to determine whether or not credit transfer should be granted.

This may entail that students will have to wait longer for a credit transfer decision.

It is therefore the student themselves that run the risk that a credit transfer decision is not made before the examination concerned.

- *IF the student does not sit the exam* and UCN subsequently decides NOT to grant the credit transfer, the student will have used one examination attempt.
- *IF the student decides to sit the exam before UCN has made a credit transfer decision* and if UCN would have granted the credit transfer, credit transfer will NOT be awarded as the student has decided to sit the exam. In this instance, the grade from the 'new' exam will be applicable irrespective of whether the 'old' exam grade – which might have resulted in credit transfer had the student applied for it in due time – is higher than the 'new' exam grade, and irrespective of whether the student failed the 'new' exam.

Once the student has decided to sit an exam, this precludes the awarding of any justified credit transfer following the processing of the application.

17.4 Pre-approval of credit transfer and final credit transfer

If a student wishes to obtain credit transfer for a subject element in this curriculum, the student must submit an application for pre-approval of credit transfer prior to leaving UCN for another educational institution in Denmark or abroad. Pre-approval of credit transfer is carried out by UCN.

When the student has successfully completed the requested subject element, and once the application for final credit transfer with the appropriate documentation has been received, final credit transfer will be granted.

If the student has not completed the requested subject element, the student must sit an exam according to the regulations for said subject element as set out in this curriculum.

For an in-depth description of the regulations, please refer to the current examination regulations on www.ucn.dk/english.

18. Language

The instruction language, exam language and learning materials are all in English.

18.1 Examination language

Exams must be conducted in intelligible English.

Please see the language description for each individual exam in the curriculum.

19. Re-sits, including resits due to illness

Regulations on re-sits, including resits due to illness (illness resit exams) can be found on www.ucn.dk/english under Examination regulations.

20. Exam aids

Regulations on the restricted use of aids, if any, are set out under each individual examination.

21. Special examination arrangements

Students may apply for special examination arrangements if a physical or mental impairment qualifies them to do so. The application must be submitted to the study programme no later than four weeks before the exam is to be held. The application deadline may be waived in cases of sudden health-related problems. The application must be accompanied by a medical certificate, a statement from e.g. an institute for speech, hearing, dyslexia or for the blind, or other evidence of the student's health-related condition or relevant specific impairment.

22. Academic misconduct during exams

When submitting written exam answers, an examinee must confirm by means of their signature that the answers were prepared without undue help.

22.1 Use of own work and the work of others – plagiarism

Regulations on the use of one's own work and the work of others – plagiarism – can be found on www.ucn.dk/english under Examination regulations.

22.2 Disciplinary actions in the event of academic misconduct and disruptive behaviour during exams

The rules on disciplinary actions in events of academic misconduct and disruptive behaviour at examinations can be found at www.ucn.dk in the Examination Regulations for UCN's Undergraduate Programmes.

23. Complaints about exams and appeal against decisions

Regulations on complaints about exams and appeals against decisions can be found on www.ucn.dk/english under Examination regulations.

24. Exemption

In the case of exceptional circumstances, the educational institution may grant exemption from the regulations in this institutional part of the curriculum, which have been laid down by each educational institution individually. The educational institutions co-operate on a uniform exemption practice.

25. Commencement and transitional schemes

This institutional part of the curriculum is valid from 01 February 2019 and is valid for all students.

The curriculum of 2018 is NOT valid as of 29 July 2019. This, however, does not apply to examinations that have commenced before the date of repeal of the old curriculum.