

The Bachelor's Degree Programme in Software Development

Curriculum

for the Bachelor's Degree Programme in Software
Development

(Uddannelsen til professionsbachelor i softwareudvikling)

Institutional Part

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PROFESSIONSHØJSKOLEN

Contents

1.	Institutional Part of the Curriculum for the Bachelor's Degree Programme in Software Development	7
2.	Selection criteria on admission to the programme	8
3.	Overview of the programme	8
4.	Local subject elements	8
4.1	Local subject element: Discrete Mathematics	9
4.1.1	Description and language of delivery	9
4.1.2	Learning objectives.....	9
4.1.3	ECTS weight.....	9
4.1.4	Number of exams	9
4.2	Local subject element: Investigation and Professional Communication	10
4.2.1	Description and language of delivery	10
4.2.2	Learning objectives.....	10
4.2.3	ECTS weight.....	10
4.2.4	Number of exams	10
4.3	Local subject element: Security for Developers.....	11
4.3.1	Description and language of delivery	11
4.3.2	Learning objectives.....	11
4.3.3	ECTS weight.....	11
4.3.4	Number of exams	12
5.	Electives	12
5.1.1	Individual Study	12
5.1.2	Description and language of delivery	12
5.1.3	Learning objectives.....	12
5.1.4	ECTS weight.....	13
5.1.5	Number of exams	13
5.2	Elective: Syntax and Semantics	13
5.2.1	Description and language of delivery	13

5.2.2	Learning objectives.....	13
5.2.3	ECTS weight.....	14
5.2.4	Number of exams	14
6.	Exams in semester 1	14
6.1	Exam testing the national subject element: Testing	14
6.1.1	Scheduled time.....	14
6.1.2	ECTS weight.....	14
6.1.3	Conditions for attending the exam (examination prerequisites)	14
6.1.4	Examination organisation and details	15
6.1.5	Assessment	15
6.1.6	Resit examination	15
6.2	The examination testing the national subject element Databases for Developers.....	16
6.2.1	Scheduled time.....	16
6.2.2	ECTS weight.....	16
6.2.3	Conditions for attending the exam (examination prerequisites)	16
6.2.4	Examination organisation and details.....	17
6.2.5	Assessment	17
6.2.6	Resit examination	17
6.3	The examination testing the local subject element Discrete Mathematics ...	18
6.3.1	Scheduled time.....	18
6.3.2	ECTS weight.....	18
6.3.3	Conditions for attending the exam (examination prerequisites)	18
6.3.4	Examination organisation and details.....	18
6.3.5	Assessment	18
6.3.6	Resit examination	19
6.4	The examination testing the local subject element Investigation and Professional Communication	19
6.4.1	Scheduled time.....	19
6.4.2	ECTS weight.....	19
6.4.3	Conditions for attending the exam (examination prerequisites)	19
6.4.4	Examination organisation and details.....	19

6.4.5	Assessment	20
6.4.6	Resit examination	20
7.	Exams in semester 2	20
7.1	The examination testing the national subject elements Large-scale Systems Development and System Integration.....	20
7.1.1	Scheduled time.....	20
7.1.2	ECTS weight.....	21
7.1.3	Conditions for attending the exam (examination prerequisites)	21
7.1.4	Examination organisation and details.....	21
7.1.5	Assessment.....	22
7.1.6	Resit examination	22
7.2	The examination testing the local subject element Security for Developers.....	22
7.2.1	Scheduled time.....	22
7.2.2	ECTS weight.....	22
7.2.3	Conditions for attending the exam (examination prerequisites)	22
7.2.4	Examination organisation and details.....	23
7.2.5	Assessment.....	23
7.2.6	Resit examination	23
7.3	The examination testing the elective Individual Study	24
7.3.1	Scheduled time.....	24
7.3.2	ECTS weight.....	24
7.3.3	Conditions for attending the exam (examination prerequisites)	24
7.3.4	Examination organisation and details.....	25
7.3.5	Assessment.....	25
7.3.6	Resit examination	25
7.4	The examination testing the elective Syntax and Semantics.....	26
7.4.1	Scheduled time.....	26
7.4.2	ECTS weight.....	26
7.4.3	Conditions for attending the exam (examination prerequisites)	26
7.4.4	Examination organisation and details.....	26
7.4.5	Assessment.....	26
7.4.6	Resit examination	26

8.	Internship, semester 3	27
8.1	The internship exam	27
8.1.1	Scheduled time	27
8.1.2	ECTS weight	27
8.1.3	Internship requirements and expectations	27
8.1.4	Conditions for attending the exam (examination prerequisites)	27
8.2	Examination organisation and details	29
8.2.1	Examination type	29
8.2.2	Exam aids	29
8.2.3	Examination language	29
8.2.4	Assessment	29
8.2.5	Resit examination	29
9.	Bachelor's degree project, semester 3	30
9.1	The examination testing the bachelor's degree project	30
9.1.1	Scheduled time	30
9.1.2	ECTS weight	30
9.1.3	Conditions for attending the exam (examination prerequisites)	30
9.1.4	Examination organisation and details	31
9.1.5	Assessment	31
9.1.6	Resit examination	32
10.	Special exam arrangements	32
10.1	Obligation to participate	33
11.	Criteria for determining study activity	33
12.	Teaching and working methods used in the programme	33
13.	Subject elements that may be completed abroad	34
14.	Credit transfer	34
14.1	Subject elements from the same study programme passed at another educational institution	34
14.2	Credit transfer assessment (compulsory credit transfer) associated with application for admission/enrolment on a study programme	35
14.3	In the event that a student does not meet their duty to disclose information on admission/enrolment	35
14.4	Pre-approval of credit transfer and final credit transfer	35

15. Exemptions.....	36
16. Effective date and transition regulations	36

Please note that this is a translation of a Danish curriculum. The translation is intended for information purposes only. In the event of any discrepancy between the translation and the original Danish text, the Danish text shall prevail.

1. Institutional Part of the Curriculum for the Bachelor's Degree Programme in Software Development

The curriculum comprises two parts (sets of regulations):

- The national part of the Curriculum, which has been jointly prepared by the educational institutions authorised to provide the study programme.
- This institutional part which has been laid down by University College of Northern Denmark (UCN) and has been designed to accommodate local and regional needs.

This institutional part of the Curriculum was prepared in accordance with:

- The Danish Ministerial Order on Academy Profession Degree Programmes and Professional Bachelor Degree Programmes. (Danish: 'Bekendtgørelse om erhvervsakademiuddannelser og professionsbacheloruddannelser')
- The Danish Ministerial Order on Technical and Commercial Academy Profession Degree Programmes and Professional Bachelor Degree Programmes (Danish title: 'Bekendtgørelse om tekniske og merkantile erhvervsakademiuddannelser og professionsbacheloruddannelser')
- The Danish Ministerial order on Examinations in Academy Profession Degree Programmes and Professional Bachelor Degree Programmes (Danish: 'Bekendtgørelse om eksamener og prøver ved professions- og erhvervsrettede videregående uddannelser')
- The Ministerial Order on the Grading Scale and Other Forms of Assessment in Education Programmes under the Ministry of Higher Education and Science (Danish: 'Bekendtgørelse om karakterskala og anden bedømmelse ved uddannelser på Uddannelses- og Forskningsministeriets område; also known as karakterbekendtgørelsen').

The following sections of the Examination Regulations for UCN's Undergraduate Programmes constitute a rider to this Institutional Curriculum and have the same validity as the other stipulations of the Curriculum.

- Subsection 4.5: Withdrawal from exams
- Section 13: Exam complaints and appeals
- Subsection 14.1: The use of one's own work and the works of others
- Subsection 14.2: Disciplinary actions in events of academic misconduct and disruptive behaviour during exams

2. Selection criteria on admission to the programme

If all qualified applicants cannot be admitted to the programme for reasons of capacity, the applicants will be prioritised according to the following selection criteria:

- Grade average up until the internship exam
- Grades received for programming, systems development and specialisation
- Relevant work and/or academic experience
- A motivation letter in which you justify your motivation, your choice of study programme as well as how your prior relevant experience can be put to good use in the programme.

3. Overview of the programme

Sem.	National subject elements	Local subject elements	Electives	ECTS	Internal/ external assessment
1	Testing			10	External
	Databases for Developers			10	External
		Discrete Mathematics		5	Internal
		Investigation and Professional Communication		5	Internal
2	Large-scale Systems Development			10	External
	System Integration			10	
		Security for Developers		5	Internal
			Electives	5	Internal
3	Internship			15	Internal
	Bachelor's degree project			15	External
Total ECTS credits:				90	

The national subject elements of the programme are described in the national part of the Curriculum.

4. Local subject elements

The programme features local subject elements worth 15 ECTS credits.

4.1 Local subject element: Discrete Mathematics

4.1.1 Description and language of delivery

The subject element comprises the following key subjects: Sets, logic, functions and relations, proof techniques, induction and recursion as well as formal specifications and program assertions.

The language of delivery is English.

4.1.2 Learning objectives

Knowledge

On completion, students should have acquired knowledge of:

- fundamental mathematical structures (propositional and predicate logic, sets and multisets, functions and relations)
- mathematical proof techniques induction and recursion
- program assertions, validity and correctness of programs.

Skills

On completion, students should have acquired the skills to:

- construct simple mathematical proofs, including induction proofs
- express functional specifications in predicate logic
- apply formal specifications for the verification of program elements.

Competencies

On completion, students should be able to:

- acquire knowledge and skills in software development that require knowledge of mathematical concepts and structures.

4.1.3 ECTS weight

Discrete Mathematics is worth 5 ECTS credits.

4.1.4 Number of exams

The element will be completed by one (1) exam.

4.2 Local subject element: Investigation and Professional Communication

4.2.1 Description and language of delivery

The subject element comprises the following key subjects: Introduction to philosophy of science, information seeking and source criticism, quantitative and qualitative methods, proof of concept prototypes and forms of presentation, including writing up academic or subject-related articles.

The language of delivery is English.

4.2.2 Learning objectives

Knowledge

On completion, students should have acquired knowledge of:

- key concepts in academic and subject-specific investigations
- source types and their quality
- methods for the production of knowledge and quality assessment of such knowledge
- various forms of presentation, communication and dissemination of knowledge.

Skills

On completion, students should have acquired the skills to:

- identify and define problems
- select appropriate forms of investigation for a given problem
- perform investigations in a methodical manner
- draw conclusions on the basis of investigation results and place them in a wider context
- present investigation work to well-defined target groups.

Competencies

On completion, students should be able to:

- find sources of subject-specific knowledge and assess their quality
- contribute to the creation of new subject-specific knowledge through systematic investigation.

4.2.3 ECTS weight

Investigation and Professional Communication is worth 5 ECTS credits.

4.2.4 Number of exams

The element will be completed by one (1) exam.

4.3 Local subject element: Security for Developers

4.3.1 Description and language of delivery

Security for Developers generally deals with security issues related to software development (including security and privacy) as well as data protection regulations. The subject element adopts a developer perspective. During the course of the subject element, the student will delve into selected aspects of security in connection with a specific development assignment.

The language of delivery is English.

4.3.2 Learning objectives

Knowledge

On completion, students should have acquired knowledge of:

- data protection regulations
- software threats and countermeasures
- criteria for program quality in relation to IT security
- principles of secure data exchange, including authentication and authorisation.

Skills

On completion, students should have acquired the skills to:

- apply APIs and/or standard libraries
- discover and handle vulnerabilities in programs
- apply security design principle, including security by design and privacy by design
- perform security assessment and security testing of software architectures.

Competencies

On completion, students should be able to:

- integrate assessment of security risks in the development process
- acquire knowledge and skills relevant to security in software development.

4.3.3 ECTS weight

Security for Developers is worth 5 ECTS credits.

4.3.4 Number of exams

The element will be completed by one (1) exam.

5. Electives

The programme features elective elements worth 5 ECTS credits.

5.1.1 Individual Study

5.1.2 Description and language of delivery

As an introduction, this subject element has a number of seminars (usually three) that introduce subjects that are not covered by the other subject elements. On the basis of these introductory seminars, students must select a subject for more in-depth study. The subject must be relevant to software development and must not be covered by the other subject elements. UCN must approve the subject and allocate a supervisor to the student. The results of the Individual Study must be reported in the form of an academic or subject-related article.

The language of delivery is English.

5.1.3 Learning objectives

Knowledge

On completion, students should have acquired knowledge of:

- the theories and practices of the selected topic
- the relevance of the selected topic to the theories and practices of software development.

Skills

On completion, students should have acquired the skills to:

- select, describe and perform literature searches for a problem or issue of their own choice within the field of IT
- discuss process-related and analytical skills relating to the selected topic
- assess problems and specify potential solutions relating to the selected topic
- communicate key results.

Competencies

On completion, students should be able to:

- autonomously acquaint themselves with new topics within the theories and/or practices of the subject field

- contextualise and relate the selected topic to the other subject fields of the study programme.

5.1.4 ECTS weight

Individual Study is worth 5 ECTS credits.

5.1.5 Number of exams

The element will be completed by one (1) exam.

5.2 Elective: Syntax and Semantics

5.2.1 Description and language of delivery

This subject element covers the following topics: Finite automata, non-determinism, pushdown automata, regular languages, context-free grammars, derivation trees, big-step and small-step semantics.

The language of delivery is English.

5.2.2 Learning objectives

Knowledge

On completion, students should have acquired knowledge of:

- fundamental concepts in automata theory and operational semantics
- computational models for language recognition
- limitations in the computing power of specific computational models and its significance to practical projects
- basic semantic models
- mathematical properties of formal language classes.

Skills

On completion, students should have acquired the skills to:

- construct mathematical proofs of the properties of computational models and language classes
- apply formal computational models to practical work
- take part in theoretical projects
- prepare formal descriptions of language and computational models
- design and implement language recognisers.

Competencies

On completion, students should be able to:

- acquire knowledge and skills in software development that require an understanding of formal language concepts
- take part in the development of tools for software development.

5.2.3 ECTS weight

Syntax and Semantics is worth 5 ECTS credits.

5.2.4 Number of exams

The element will be completed by one (1) exam.

6. Exams in semester 1

6.1 Exam testing the national subject element: Testing

6.1.1 Scheduled time

The exam will take place at the end of semester 1.

6.1.2 ECTS weight

The exam is worth 10 ECTS credits.

6.1.3 Conditions for attending the exam (examination prerequisites)

Due submission of project report. The submission date can be found in the timetabling system.

The project must be prepared as a combined report that allows the examination of the learning objectives for the subject elements Testing and Databases for Developers. The project is prepared by groups of two to four students or individually.

Formal requirements for the project report:

- Project report.
- The report must clearly indicate which parts relate to the subject element Testing.
- The report must include reflections on the role of the subject element Testing in the project as a whole.
- Maximum length for the complete report: 20 standard pages plus 10 standard pages per student, not including appendices.

One standard page is 2,400 characters, including spaces and footnotes.

All exam prerequisites must have been met before a student can attend the exam of a particular educational element.

If a student does not satisfy all exam prerequisites at the time of the ordinary exam for that particular educational element, the student cannot attend the exam. As a consequence, the student will have used an exam attempt and will have one less exam attempt remaining for passing that particular exam.

6.1.4 Examination organisation and details

6.1.4.1 Examination type

The exam is a combination of a submitted, written project (group or individual) and an oral examination (group or individual). The written and oral performances for the subject element Testing are assessed as a whole, leading to a single grade.

The project is prepared by groups of two to four students or individually.

Find more information about the examination testing the national subject element in the semester plan.

6.1.4.2 Exam aids

All aids are permitted.

6.1.4.3 Examination language

The exam will be conducted in English.

6.1.5 Assessment

The assessment criteria for the exam are the learning objectives for the national subject element Testing. The learning objectives are described in the national part of the Curriculum.

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

6.1.6 Resit examination

For the purposes of the resit, it will be decided whether the student(s) should:

A. Be assessed according to the same rules as those applying to the previous exam and based on the original written product.

B. Submit a new written supplement to the report before the expiry of a set deadline.

If the project was individually prepared, a revised report may be submitted. The same applies to a group project if the entire group of students will be attending the resit.

If one or more of the students who wrote a group project will have to do a resit, they must submit a supplement to the original report with clear indications of which students wrote the individual parts of the supplement.

C. Submit a new written product before the expiry of a set deadline and be assessed according to the same rules as those applying to the previous exam but on the basis of the new project.

6.2 The examination testing the national subject element Databases for Developers

6.2.1 Scheduled time

The exam will take place at the end of semester 1.

6.2.2 ECTS weight

The exam is worth 10 ECTS credits.

6.2.3 Conditions for attending the exam (examination prerequisites)

Due submission of project. The submission date can be found in the timetabling system.

The project must be prepared as a combined report that allows the exam to test the learning objectives for the subject elements Testing and Databases for Developers. The project is prepared by groups of two to four students or individually.

Formal requirements for the project report:

- Project report.
- The report must clearly indicate which parts relate to the subject element Databases for Developers.
- The report must include reflections on the role of the subject element Databases for Developers in the project as a whole.
- Maximum length for the complete report: 20 standard pages plus 10 standard pages per student, not including appendices.

One standard page is 2,400 characters, including spaces and footnotes.

If a student does not meet all the examination prerequisites, the student will have used an exam attempt. Subsequently, the student will have two examination attempts remaining to pass the exam.

All exam prerequisites must have been met before a student can attend the exam of a particular educational element.

If a student does not satisfy all exam prerequisites at the time of the ordinary exam for that particular educational element, the student cannot attend the exam. As a consequence, the student will have used an exam attempt and will have one less exam attempt remaining for passing that particular exam.

6.2.4 Examination organisation and details

6.2.4.1 Examination type

The exam is a combination of a submitted, written project (group or individual) and an oral examination (group or individual). The written and oral performances for the subject element Databases for Developers are assessed as a whole, leading to a single grade.

Find more information about the examination testing the national subject element in the semester plan.

6.2.4.2 Exam aids

All aids are permitted.

6.2.4.3 Examination language

The exam will be conducted in English.

6.2.5 Assessment

The assessment criteria for the exam are the learning objectives for the national subject element Databases for Developers. The learning objectives are described in the national part of the Curriculum.

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

6.2.6 Resit examination

For the purposes of the resit, it will be decided whether the student(s) should:

A. Be assessed according to the same rules as those applying to the previous exam and based on the original written product.

B. Submit a new written supplement to the report before the expiry of a set deadline.

If the project was individually prepared, a revised report may be submitted. The same applies to a group project if the entire group of students will be attending the resit.

If one or more of the students who wrote a group project will have to do a resit, they must submit a supplement to the original report with clear indications of which students wrote the individual parts of the supplement.

C. Submit a new written product before the expiry of a set deadline and be assessed according to the same rules as those applying to the previous exam but on the basis of the new project.

6.3 The examination testing the local subject element Discrete Mathematics

6.3.1 Scheduled time

The exam will take place halfway through semester 1.

6.3.2 ECTS weight

The exam is worth 5 ECTS credits.

6.3.3 Conditions for attending the exam (examination prerequisites)

None.

6.3.4 Examination organisation and details

6.3.4.1 Examination type

Examination type: Oral

The exam will be organised as an individual exam.

At the beginning of the exam, the student randomly chooses a topic from a selection of topics. The topics will have been published on the study programme's learning platform not later than two weeks before the exam is to take place. The student explains the topic, and an examination dialogue then takes place, which may involve all subjects related to the subject element.

6.3.4.2 Exam aids

The student's own notes.

6.3.4.3 Examination language

The exam will be conducted in English.

6.3.5 Assessment

The assessment criteria for the exam are the same as the learning objectives for the local subject element: Discrete Mathematics. The learning objectives are described in section 4.1.2 above.

The examination is an individual internally assessed exam, graded according to the 7-point grading scale.

6.3.6 Resit examination

The examination will be conducted in the same way as the ordinary exam.

6.4 The examination testing the local subject element Investigation and Professional Communication

6.4.1 Scheduled time

The exam will take place halfway through semester 1.

6.4.2 ECTS weight

The exam is worth 5 ECTS credits.

6.4.3 Conditions for attending the exam (examination prerequisites)

Due submission of an academic or subject-related article. The submission date can be found in the timetabling system.

Formal requirements to the academic or subject-related article

- Max. 10 standard pages.
- The academic or subject-related article must describe an academic, subject-specific study and comply with the general formal requirements to academic articles (e.g. problem statement, investigation method, results, conclusion, discussion and reference list).

One standard page is 2,400 characters, including spaces and footnotes.

All exam prerequisites must have been met before a student can attend the exam of a particular educational element.

If a student does not satisfy all exam prerequisites at the time of the ordinary exam for that particular educational element, the student cannot attend the exam. As a consequence, the student will have used an exam attempt and will have two exam attempts remaining for passing that particular exam.

6.4.4 Examination organisation and details

6.4.4.1 Examination type

Examination type: A combination of a submitted article and an oral examination. The written and oral performances are assessed as a whole, leading to a single grade.

The exam will be organised as an individual exam.

The student presents his/her article at the examination. Then an examination dialogue takes place, which may involve all subjects related to the subject element.

6.4.4.2 Exam aids

All aids are permitted.

6.4.4.3 Examination language

The exam will be conducted in English.

6.4.5 Assessment

The assessment criteria for the exam are the learning objectives for the local subject element Investigation and Professional Communication. The learning objectives are described in section 4.2.2 above.

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

6.4.6 Resit examination

For the purposes of the resit, it will be decided whether the student(s) should:

A. Be assessed according to the same rules as those applying to the previous exam and based on the original written product.

B. Submit a new written product, which should be an edited and/or extended version of the original written product and submitted within expiry of a set deadline. The student is assessed according to rules similar to those applying to the previous exam but on the basis of the edited and/or extended written product.

C. Submit a new written product before the expiry of a set deadline and be assessed according to the same rules as those applying to the previous exam but on the basis of the new project.

7. Exams in semester 2

7.1 The examination testing the national subject elements Large-scale Systems Development and System Integration

7.1.1 Scheduled time

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

7.1.2 ECTS weight

The exam is worth 20 ECTS credits.

7.1.3 Conditions for attending the exam (examination prerequisites)

Due submission of project report. The submission date can be found in the timetabling system.

The project must be written in a way that allows the examination of the learning objectives for the subject elements Large-scale Systems Development and System Integration. The project is prepared by groups of 2 to 4 students or individually.

Formal requirements for the report

- Maximum length for the complete report: 20 standard pages plus 10 standard pages per student, not including appendices.

One standard page is 2,400 characters, including spaces and footnotes.

All exam prerequisites must have been met before a student can attend the exam of a particular educational element.

If a student does not satisfy all exam prerequisites at the time of the ordinary exam for that particular educational element, the student cannot attend the exam. As a consequence, the student will have used an exam attempt and will have two exam attempts remaining for passing that particular exam.

7.1.4 Examination organisation and details

7.1.4.1 Examination type

The examination is an externally assessed individual or group exam that will be graded according to the 7-point grading scale.

Examination type: A combination of the submitted written project and the oral examination. The project can be submitted as a group project or as an individual project. Accordingly, the exam will be conducted as an oral group exam or as an oral individual exam. The written and oral performances for the subject element Large-scale Systems Development and System Integration are assessed as a whole, leading to a single grade.

Find more information about the examination testing the national subject elements in the semester plan.

7.1.4.2 Exam aids

All aids are permitted.

7.1.4.3 Examination language

The exam will be conducted in English.

7.1.5 Assessment

The assessment criteria for the exam are the learning objectives for the national subject elements Large-scale Systems Development and System Integration. The learning objectives are described in the national part of the Curriculum.

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

7.1.6 Resit examination

For the purposes of the resit, it will be decided whether the student(s) should:

A. Be assessed according to the same rules as those applying to the previous exam and based on the original written product.

B. Submit a new written supplement to the report before the expiry of a set deadline.

If the project was individually prepared, a revised report may be submitted. The same applies to a group project if the entire group of students will be attending the resit.

If one or more of the students who wrote a group project will have to do a resit, they must submit a supplement to the original report with clear indications of which students wrote the individual parts of the supplement.

C. Submit a new written product before the expiry of a set deadline and be assessed according to the same rules as those applying to the previous exam but on the basis of the new project.

7.2 The examination testing the local subject element Security for Developers

7.2.1 Scheduled time

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

7.2.2 ECTS weight

The exam is worth 5 ECTS credits.

7.2.3 Conditions for attending the exam (examination prerequisites)

Due submission of a synopsis (an 'extended abstract') for a selected security aspect. The submission date can be found in the timetabling system. The selected security aspect must be related to a specific development assignment.

Formal requirements to the synopsis

- Definition of the selected problem
- Brief description of solution proposals
- Discussion and conclusions

- Maximum: 3 standard pages

One standard page is 2,400 characters, including spaces and footnotes.

All exam prerequisites must have been met before a student can attend the exam of a particular educational element.

If a student does not satisfy all exam prerequisites at the time of the ordinary exam for that particular educational element, the student cannot attend the exam. As a consequence, the student will have used an exam attempt and will have two exam attempts remaining for passing that particular exam.

7.2.4 Examination organisation and details

7.2.4.1 Examination type

Examination type: A combination of a submitted synopsis and an oral examination.

The exam will be organised as an individual exam.

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

At the exam, the student presents the selected security aspect, his/her solution proposals and conclusions. The presentation must include the solution of a specific, practical problem. Subsequently, an exam dialogue will take place based on the presentation, but other topics under the subject element may also be covered.

7.2.4.2 Exam aids

All aids are permitted.

7.2.4.3 Examination language

The exam will be conducted in English.

7.2.5 Assessment

The assessment criteria for the exam are the learning objectives for the local subject element Security for Developers. The learning objectives are described in section 4.3.2 above.

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

7.2.6 Resit examination

For the purposes of the resit, it will be decided whether the student(s) should:

A. Be assessed according to the same rules as those applying to the previous exam and based on the original written product.

B. Submit a new written product, which should be an edited and/or extended version of the original written product and submitted within expiry of a set deadline. The student is assessed according to rules similar to those applying to the previous exam but on the basis of the edited and/or extended written product.

C. Submit a new written product before the expiry of a set deadline and be assessed according to the same rules as those applying to the previous exam but on the basis of the new project.

7.3 The examination testing the elective Individual Study

7.3.1 Scheduled time

The exam will take place halfway through semester 2.

7.3.2 ECTS weight

The exam is worth 5 ECTS credits.

7.3.3 Conditions for attending the exam (examination prerequisites)

Due submission of an academic or subject-related article. The submission date can be found in the timetabling system.

Formal requirements to the article

- Max. 10 standard pages.
- The academic or subject-related article must describe an academic, IT-related subject that is not covered by the other subject elements of the study programme. The article must comply with the general formal requirements to academic articles (e.g. problem statement, investigation method, results, conclusion, discussion and a reference list).

One standard page is 2,400 characters, including spaces and footnotes.

All exam prerequisites must have been met before a student can attend the exam of a particular educational element.

If a student does not satisfy all exam prerequisites at the time of the ordinary exam for that particular educational element, the student cannot attend the exam. As a consequence, the student will have used an exam attempt and will have two exam attempts remaining for passing that particular exam.

7.3.4 Examination organisation and details

7.3.4.1 Examination type

Examination type: A combination of a submitted paper and an oral examination.

The exam will be organised as an individual exam.

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

The student presents his/her paper at the examination. Subsequently, an exam dialogue will take place based on the article, the presentation and the selected topic.

7.3.4.2 Exam aids

All aids are permitted.

7.3.4.3 Examination language

The exam will be conducted in English.

7.3.5 Assessment

The assessment criteria for the exam are the learning objectives for the elective Individual Study. The learning objectives are described in section 5.1.3 above.

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

7.3.6 Resit examination

For the purposes of the resit, it will be decided whether the student(s) should:

A. Be assessed according to the same rules as those applying to the previous exam and based on the original written product.

B. Submit a new written product, which should be an edited and/or extended version of the original written product and submitted within expiry of a set deadline. The student is assessed according to rules similar to those applying to the previous exam but on the basis of the edited and/or extended written product.

C. Submit a new written product before the expiry of a set deadline and be assessed according to the same rules as those applying to the previous exam but on the basis of the new project.

7.4 The examination testing the elective Syntax and Semantics

7.4.1 Scheduled time

The exam will take place halfway through semester 2.

7.4.2 ECTS weight

The exam is worth 5 ECTS credits.

7.4.3 Conditions for attending the exam (examination prerequisites)

None.

7.4.4 Examination organisation and details

7.4.4.1 Examination type

Examination type: on-site written exam.

The exam will be organised as an individual exam.

7.4.4.2 Exam aids

One sheet of A4-sized paper with the student's own notes.

7.4.4.3 Examination language

The exam will be conducted in English.

7.4.5 Assessment

The assessment criteria for the exam are the learning objectives for the elective subject element Syntax and Semantics. The learning objectives are described in section 5.2.2 above.

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

7.4.6 Resit examination

For the resit, the student will have to write up a new on-site exam answer paper.

8. Internship, semester 3

8.1 The internship exam

8.1.1 Scheduled time

The exam will take place halfway through semester 3.

8.1.2 ECTS weight

The exam is worth 15 ECTS credits.

8.1.3 Internship requirements and expectations

During the internship, the student will work on problems that are relevant to the profession while acquiring knowledge of relevant work functions. The student's learning objectives for the internship must be based on the relationship between the student's theoretical studies and practical tasks and working methods.

Based on the internship learning objectives – as indicated in the national part of the Curriculum – the student and the supervisor/contact person collaborate on defining specific objectives for the student's internship.

The objectives must be entered in the Internship Portal. The objectives will then guide the planning of the student's work during the internship, including the writing of the internship report. 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 as what a graduate would be expected to encounter in the labour market.

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

The student must satisfy the following requirements for the internship to be considered completed: Due submission of the internship report including a statement from the host company to confirm that the student was active during the internship at a level equivalent to full time (which includes time for writing the internship report, writing a logbook, taking part in the mid-way meeting etc.). The study programme will make the final decision as to whether the internship will be considered completed.

8.1.4 Conditions for attending the exam (examination prerequisites)

- The internship must have been completed. See section 8.1.3 above for the specific requirements that students must satisfy for their internship to be considered completed.
- The internship report must meet the formal requirements and be duly and correctly submitted. See section 8.1.4.1 below.

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 and/or the formal requirements, the student will have used an examination attempt. This means that the student will have two attempts remaining to pass the examination.

8.1.4.1 Formal requirements for the written internship report

- Cover page, indicating name, place of internship, educational institution, internship period
- Introduction, including a description of the internship host company
- Specific and detailed learning objectives based on the learning objectives in the national part of the Curriculum
- Description of specific work tasks
- Conclusion, including reflections on the achievement of specific learning objectives in relation to work tasks
- Reference list, if any, (including all sources that are referred to in the project report)
- Appendices, including a statement from the internship host company.

The maximum allowed length of the internship report is 10 standard pages, and it should deal with an academic issue related to the internship host company. One 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. Appendices are not assessed.

The report must be prepared individually by each student.

All exam prerequisites must have been met before a student can attend the exam of a particular educational element.

If a student does not satisfy all exam prerequisites at the time of the ordinary exam for that particular educational element, the student cannot attend the exam. As a consequence, the student will have used an exam attempt and will have two exam attempts remaining for passing that particular exam.

Each student has the right to receive one offer of an internship place for each internship period. If exceptional circumstances are deemed to exist, UCN may waive the restriction on the number of offers.

8.2 Examination organisation and details

8.2.1 Examination type

The examination is oral and based on the written internship report. To begin the oral exam, the student makes a presentation. Subsequently, an examination dialogue will take place taking its starting point in the presentation and the submitted report as well as the learning objectives of the internship.

The examination is an individual, internally-assessed exam that is graded according to the 7-point grading scale. The written internship report and the oral performance are assessed as a whole, leading to a single grade.

8.2.2 Exam aids

All aids are permitted.

8.2.3 Examination language

The exam will be conducted in English.

8.2.4 Assessment

The assessment criteria for the exam are the learning objectives for the internship. The learning objectives are described in the national part of the Curriculum.

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

8.2.5 Resit examination

For the purposes of the resit, it will be decided whether the student should:

A. Be assessed according to the same rules as those applying to the previous exam and based on the original written product.

B. Submit a new written product, which should be an edited and/or extended version of the original written product and submitted within expiry of a set deadline. The student is assessed according to rules similar to those applying to the previous exam but on the basis of the edited and/or extended written product.

C. Submit a new written product before the expiry of a set deadline and be assessed according to the same rules as those applying to the previous exam but on the basis of the new project.

9. Bachelor's degree project, semester 3

9.1 The examination testing the bachelor's degree project

9.1.1 Scheduled time

The exam testing the bachelor's degree project can only take place once the internship examination and other examinations have been passed.

The examination will take place at the end of the final semester of the study programme.

9.1.2 ECTS weight

The exam is worth 15 ECTS credits.

9.1.3 Conditions for attending the exam (examination prerequisites)

The written project, which constitutes both the assessment basis and the examination basis, must

- meet the formal requirements to the bachelor's degree project, as indicated in the national part of the curriculum
- be submitted in the correct manner and in due time.

The project report, which makes up the written element of the examination, must as a minimum, include the following:

- Cover page with title
- Table of contents
- Introduction, including problem statement
- Solution proposals, including choice of relevant theory and methods
- Conclusions, including reflection and discussion
- Reference list (including all sources referenced in the project)
- Appendices (only include appendices that are key to the report)

The maximum allowed length of the report is 20 standard pages + 20 standard pages per student. The cover page, table of contents, reference list and appendices are not included in the required number of pages. Appendices are not assessed.

One standard page is 2,400 characters, including spaces and footnotes.

All exam prerequisites must have been met before a student can attend the exam of a particular educational element.

If a student does not satisfy all exam prerequisites at the time of the ordinary exam for that particular educational element, the student cannot attend the exam. As a

consequence, the student will have used an exam attempt and will have two exam attempts remaining for passing that particular exam.

9.1.4 Examination organisation and details

9.1.4.1 Examination type

The exam is an externally assessed, oral exam based on the written project report. The written element of the bachelor's degree project may be prepared individually or in groups of 2 to 4 students at the most. The oral part of the exam will be conducted individually or as a group examination.

The written report and the oral performance are assessed as a whole, leading to a single grade.

The project group presents their project, maximum duration: 30 minutes. Subsequently, 20 minutes will be allocated for examination of each student, including time for deliberations.

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

Students also have the right to do an individual, oral exam in cases where the degree project was written jointly by a group of students.

If a student wants to do an individual oral exam in cases where the degree project was written jointly by a group of students, the student must notify the study programme no more than 14 days before the oral exam. UCN may grant exemptions from the deadline in the event of exceptional circumstances.

9.1.4.2 Exam aids

All aids are permitted.

9.1.4.3 Examination language

The exam will be conducted in English.

9.1.5 Assessment

Alongside the internship examination and the other examinations of the study programme, the bachelor's degree project examination is intended to document the attainment of the defined learning outcomes of the study programme.

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

The students' writing and spelling skills will be included in the assessment of the bachelor's degree project. However, students who have a physical or mental impairment and students whose mother tongue is not Danish may be exempt in cases where UCN finds that an exemption is necessary in order to put those students on an equal footing

with other students. A condition for exemption is that the level of the discipline-specific content of the exam must remain unchanged.

An application for exemption must be made in writing to the study programme using UCN's online forms no later than 4 weeks before the exam date. The student must attach documentary evidence of their grounds for applying for an exemption.

UCN may waive the application deadline if exceptional circumstances are found to exist.

Spelling and writing skills may, however, only increase or decrease a student's grade by one grade at the most. The assessment is expressed as an overall assessment of the profession-related and academic content as well as the student's spelling and writing skills.

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

9.1.6 Resit examination

For the purposes of the resit, it will be decided whether the student(s) should:

A. Be assessed according to the same rules as those applying to the previous exam and based on the original written product.

B. Submit a new written supplement to the report before the expiry of a set deadline.

If the project was individually prepared, a revised report may be submitted. The same applies to a group project if the entire group of students will be attending the resit.

If one or more of the students who wrote a group project will have to do a resit, they must submit a supplement to the original report with clear indications of which students wrote the individual parts of the supplement.

C. Submit a new written product before the expiry of a set deadline and be assessed according to the same rules as those applying to the previous exam but on the basis of the new project.

10. Special exam arrangements

UCN may exempt students from exam terms and conditions that were laid down in the institutional part of the curriculum. Exemption includes offering special exam arrangements to students who have a physical or mental impairment and students whose mother tongue is not Danish in cases where UCN finds that an exemption is necessary in order to put those students on an equal footing with other students. A condition for exemption is that the level of the discipline-specific content of the exam must remain unchanged.

Students must use UCN's online forms to apply for exemption from UCN's exam conditions or to apply for special exam arrangements no later than 4 weeks before the exam is to take place. The student must attach documentary evidence of their grounds for applying for an exemption.

UCN may waive the application deadline if exceptional circumstances are found to exist.

10.1 Obligation to participate

For teaching and learning activities to be most efficient and for students to achieve the learning objectives of the programme, students have an obligation to participate by submitting or presenting assignments/project work etc.

The students' submission/presentation of assignments/project work etc. may be expressed as exam prerequisites which must be satisfied before students can attend a particular exam.

If, at the time of an exam, a student has not met all the exam prerequisites, the student will not be allowed to attend the exam, and as a consequence they will have used an exam attempt. Subsequently, the student will only have two attempts remaining to pass that particular exam and will not be allowed to attend the exam until all exam prerequisites have been satisfied.

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

11. Criteria for determining study activity

Students have an obligation to stay informed about the time and venue for teaching and learning activities and exams, which can be found on the intranet.

Students who have not passed any examination for a continuous period of at least one year will be de-registered as students at UCN.

UCN may waive this rule if it is found justified by exceptional circumstances.

Before enrolment is terminated, the student will be consulted in writing.

12. Teaching and working methods used in the programme

UCN's study programmes are based on Reflective Practice-based Learning (RPL) enabling students to develop the competencies to act professionally in a changing world. Throughout their studies, students develop professional, social and personal competencies that enable them to link theoretical reflection with practical actions and qualify them to reflect on and implement relevant theories and knowledge.

In our study programmes, RPL sets the stage for students to engage in practice-related learning activities that link practice-related knowledge, theoretical knowledge and research-based knowledge. Various teaching and learning activities are planned according to these six fundamental principles that foster reflection:

Fundamental principle No. 1: The students' own experiences are incorporated into teaching and learning activities.

Fundamental principle No. 2: Teaching and learning activities are designed to include appropriate disturbances.

Fundamental principle No. 3: Teaching and learning activities are organised as exploration.

Fundamental principle No. 4: The content of teaching and learning activities is based on the good example.

Fundamental principle No. 5: Lecturers and students work together on learning processes.

Fundamental principle No. 6: Lecturers and students create room for dialogue.

The six fundamental principles manifest themselves in different ways in different study programmes, semesters and subjects. However, all of them require students to participate and engage actively to maximise the learning yield.

13. 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.

If a study-abroad period has been pre-approved, the student has a duty to document completion of the subject elements when the pre-approved study-abroad period is over. When applying for pre-approval, the student must consent to allow the educational institution to collect any required information once the pre-approved study-abroad period is over.

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

UCN has a large network of partners abroad, and UCN's International Relations Office may help students find out how to do part of their studies outside Denmark. Contact UCN's International Relations Office for further information. Please note however, that studying or going on an internship abroad requires more work of the student than staying in Denmark. It is up to the student to find out which subjects can be studied abroad with the higher education institution that s/he wants to attend etc. UCN International Relations Office will stand by with advice but cannot take part in the actual planning of the study abroad period.

14. Credit transfer

Credit transfer can take place in different situations.

14.1 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 that provide the same study programme.

14.2 Credit transfer assessment (compulsory credit transfer) associated 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 study programme and about any work experience that may be assumed to qualify for credit transfer, the study programme will decide whether or not to grant credit transfer in each individual case. This will take place on the basis of completed educational elements and work experience that compare with subjects, educational elements or internship elements. The decision whether to award credit transfer is based on an assessment of academic achievement.

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

If a student does not disclose information about prior education and work experience on admission/enrolment, their application for credit transfer will not be considered until July or January, whichever comes first, in connection with admission/registration of new students.

This means that students applying for credit transfer may have to wait longer than anticipated for a decision of credit transfer.

It is therefore at each student's own risk that a decision of credit transfer may not have been made in due time before a relevant exam.

- IF the student does not sit the exam and UCN subsequently decides NOT to grant the credit transfer, the student will have used one exam 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, then credit transfer will NOT be awarded because the student has already decided to sit the exam. In this instance, the grade given for the 'new' exam will apply 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, and irrespective of whether the student failed the 'new' exam.

So, once a student has decided to sit an exam, this will exclude the possibility of awarding due transfer credit.

14.4 Pre-approval of credit transfer and final credit transfer

Before going to another educational institution in Denmark or abroad with the intent of getting credit transfer for a subject element under this Curriculum, students must apply for pre-approval of credit transfer.

Pre-approval of credit transfer will be carried out by UCN.

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

If the student has not passed the requested subject element, the student must sit an exam according to the regulations for that particular subject element as set out in the Curriculum.

For an in-depth description of the credit-transfer rules, please see the current version of the Examination Regulations for UCN's Undergraduate Programmes.

15. Exemptions

If justified by exceptional circumstances, UCN may opt to waive stipulations in the Curriculum; however, only stipulations made by UCN alone or those made jointly by the institutions offering the programme may be disregarded.

According to UCN's practice, exceptional circumstances are generally characterised as a sudden and unexpected change of conditions that a student has been unable to guard themselves against. This could be sudden, serious illness or a death in a student's immediate family.

Each individual case will require a specific assessment of whether exceptional circumstances exist, just as each case will be considered to decide whether the facts of that particular case justify a deviation from the general characterisation of exceptional circumstances.

16. Effective date and transition regulations

This Institutional Part of the Curriculum will come into effect as of 1 September 2022 and will apply to all students who are admitted/registered on the study programme on that date or later. This shall include students who are re-admitted or re-registered.

The Institutional Part of the Curriculum of 1 September 2020 will be repealed as of 1 September 2022.

Students who were admitted/registered on the study programme before 1 September 2022 – including those who were re-admitted/re-registered – will transfer to this institutional part of the Curriculum on 1 September 2022.

However, exams that have already commenced under the 1 September 2020 Curriculum, must be finalised before 1 February 2023.

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