

# Curriculum for Web Development

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Bachelor's Degree Programme in Web Development  
Professionsbachelor i webudvikling

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August 2022: Outdated transitional arrangements deleted and revised local educational element  
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# 1. FRAMEWORK

This curriculum, covering the study programme for the bachelor degree in Web Development, hereinafter referred to as the study programme or the programme, is composed in compliance with the ministerial order no. 457 of 19<sup>th</sup> of april 2022: 'Bekendtgørelse om tekniske og merkantile erhvervsakademiuddannelser og professionsbacheloruddannelser' by the Danish institutions of higher education approved to offer the particular programme.

## *National parts and institution-specific parts of the curriculum*

The curriculum contains a national part, which has been stipulated conjointly with the institutions in the respective educational network, and an institutional part, which has been determined by Cphbusiness alone. The national part has been incorporated in this document and constitute the following subsections: 1.1, 3.2, 3.4, 5.4 and 6.1. The remaining parts are institution specific.

The national part has been co-created by all institutions offering the study programme, and they have committed themselves to ensuring national competence and qualifications. The national part of the curriculum has been approved by the national education network for business academies 1 August 2019.

The curriculum as a whole has been approved by Cphbusiness in compliance with the institution's internal approvals procedure on 20 August 2022.

## **1.1. Purpose and Objectives of the Study Programme**

The purpose of the study programme in Web Development is to qualify the graduate to be able to work independently as a web specialist when designing and constructing web applications, web architecture and internet communication in internal development departments of companies of all sizes or in major consultancy or software companies within the web area.

### *Knowledge*

The student has development-based knowledge of:

- standards within web development
- development environments for web development
- broad development methods within web development and can also reflect upon their practical application in the profession.

The student has an understanding of:

- web applications' role in society.

### *Skills*

The student can:

- use methods and tools within web development to plan and develop applications based on specific development wishes
- master a suitable programming language to implement these development wishes
- evaluate and justify their choice of a suitable system for ensuring both data and application persistence
- use the domain's theory and method to develop user experiences adapted to relevant target groups and assess user experiences based upon the domain's theory and method
- use methods to develop user interfaces that exploit the special design and aesthetic potential of web technologies, and also assess and justify their value as a solution
- use and master a suitable development environment in the implementation of the development process
- communicate specialist problems and solution models to collaborative partners and users as well as peers and non-specialists.

### *Competencies*

The student can:

- handle complex and development-oriented situations in web development
- independently enter into a professional and interdisciplinary cooperation within web development with a professional approach and take responsibility within the framework of professional ethics
- identify and structure their own learning needs and develop their personal skills and competencies in relation to web development.

## **1.2. Title, Duration and Certificate**

### *Title*

Upon completion of the programme, graduates are entitled to use the title Bachelor of Web Development (in Danish: professionsbachelor i webudvikling).

In agreement with the Danish Qualification Framework for Lifelong Learning, the programme is graded at level 6.

### *Duration and maximum length of study*

This programme amounts to 90 ECTS in total. 60 ECTS credits (European Credit Transfer System) corresponds to a full-time student's work for one year of study, cf. section 9 in ministerial order no. 457 of 19th of April 2022: 'Bekendtgørelse om tekniske og merkantile erhvervsakademiuddannelser og professionsbacheloruddannelser'.

Study programmes that do not exceed 150 ECTS must be completed within the number of years corresponding to twice the nominal length of study. Study programmes consisting of 180 ECTS must be completed no later than the nominal length of study plus 2 years. Other programmes must be completed no later than 6 years after commencement, cf. section 6, subsection 2, in the ministerial order. This means that this study programme must be completed within 3 years after the student was enrolled.

The following three types of leave of absence are not included in the calculation of the maximum study time for the study programme: leave due to maternity leave or adoption (but maximum 52 weeks), compulsory military service (including service similar to compulsory military service) and training for and dispatchment similar to compulsory military service.

Under exceptional circumstances, Cphbusiness is entitled to grant exemptions from this rule.

### *Certificate*

Upon completion of the study programme, a certificate is issued to the student by Cphbusiness.

## **1.3. Commencement**

This revised curriculum is effective as of 15 August 2022 and is valid for students who are enrolled after this date.

## **1.4. Interim Provisions/Transitional Arrangements**

As regards the release of a new curriculum, or in the event of substantial alterations to the present curriculum, transitional arrangements will be laid down in the new curriculum.

Students enrolled before 15 August 2022 can complete their studies according to their original curriculum but must do so by 1 September 2023. After this date, all students enrolled on older curricula will be transferred to the 2022 curriculum.

## **1.5. Legal Framework**

The legal framework that applies to this study programme is constituted by the latest versions of the following acts and ministerial orders:

(The following are English translations of Danish texts published in the Danish Official Gazette (Lovtidende). In the event of a discrepancy between the translated version and the Danish version, the latter is valid)

- Act no. 786 of 8 August 2019 on academies of professional higher education (the Academy Profession Act) (*Erhvervsakademiloven*)
- Act no. 1343 of 10 December 2019 on academy profession programmes and professional bachelor programmes (*LEP-loven*)
- Ministerial order no. 457 of 19 April 2022 on technical and commercial academy profession programmes and bachelor programmes
- Ministerial order no. 2027 of 7 November 2021 on examinations (the Examination Order) (*Eksamensbekendtgørelsen*)
- Ministerial order no. 36 of 13 January 2022 on admission and enrolment on academy profession programmes and bachelor programmes (*Adgangsbekendtgørelsen*)
- Ministerial order no. 548 of 29 April 2022 on the grading scale and other forms of assessment (the Grading Scale Order) (*Karakterbekendtgørelsen*)
- Ministerial order no 458 of 19 April 2022 on corps and activities for external examiners in higher education (*Censorbekendtgørelsen*)

The respective acts and orders can be obtained through *Retsinformation* at [www.retsinfo.dk](http://www.retsinfo.dk) (in Danish).

## 2. ADMISSION TO THE PROGRAMME

### 2.1. Entry Requirements

Admission to the programme requires an AP Degree in Computer Science or an AP Degree in Multimedia Design and Communication or degrees similar to these. English corresponding to Danish level B is also a requirement for admission.

### 2.2. Eligibility for Admission

In order to become eligible for admission to the programme, applicants must meet the entry requirements stated in subsection 2.1. If these are fulfilled, the applicant is qualified for, however not guaranteed, admission to the programme.

Cphbusiness specifies additional criteria for the selection of applicants, if the number of eligible applicants exceeds the vacancies on the study programme.

The additional selection criteria will be published at Cphbusiness' website taking due account of the time limits provided by the Ministry of Higher Education and Science.

## 3. PROGRAMME CONTENT

### 3.1. Programme Structure

As a prerequisite for completing the study programme, students must pass educational elements equivalent to a total workload of 90 ECTS credits. A full-time semester encompasses educational elements, including the internship, corresponding to 30 ECTS credits.

The programme comprises of educational elements equivalent to 60 ECTS credits, consisting of national elements (40 ECTS) and local educational elements including electives (in total 20 ECTS), an internship equivalent to 15 ECTS credits and a bachelor project equivalent to 15 ECTS credits.

| Educational elements            | 1st year | 2nd year | ECTS |
|---------------------------------|----------|----------|------|
| National educational elements   |          |          | 40   |
| Web Programming                 | X        |          | 20   |
| Development Environments        | X        |          | 10   |
| User Experiences                | X        |          | 10   |
| Local educational elements      |          |          | 20   |
| Databases                       | X        |          | 5    |
| Research and Quality Assessment | X        |          | 5    |
| Elective                        | X        |          | 10   |
| Internship and bachelor project |          |          | 30   |
| Internship                      |          | X        | 15   |
| Bachelor project                |          | X        | 15   |
| Total                           | 60       | 30       | 90   |

The sum of all educational elements and other study activities may not exceed the prescribed ECTS credits.

All educational elements, including the bachelor project, are assessed and evaluated. When the outcome of the assessment is either 'passed' or at least the grade 02, the educational element concerned is seen as passed. For more information on examinations, please read chapter 5.

### 3.2. National Educational Elements

The programme covers a number of national educational elements corresponding to 40 ECTS credits. Learning goals, ECTS scope, content and number of examinations for the national educational elements have been determined collaboratively by the institutions of higher education offering the study programme.

|   |
|---|
| <b>Web Programming</b>                  |
| <b>Timing:</b> 1 <sup>st</sup> semester |
| <b>Scope:</b> 20 ECTS                   |

**Contents:** The subject elements comprise the development and modelling of web applications, including architecture, robustness, internet and web protocols, use of debugging techniques and techniques for installation and maintenance. The subject area also includes data security, data storage, data modelling and exchange of data sources based on recognised standards.

**Learning objectives:**

*Knowledge*

The student has development-based knowledge of: practice, applied theory and development methods in:

- relevant internet and web protocols
- data storage, modelling, exchange and security
- quality assurance.

The student can understand and reflect upon:

- development methods in web development
- web architecture and design patterns.

*Skills*

The student can:

- master all phases of development including planning, developing and implementing web applications based on specific development wishes, as well as evaluate practice-based and theoretical problems and select and justify relevant solution models in relation to the development of web applications
- evaluate and justify the choice of a suitable programming language and relevant methods for the implementation of web applications
- master a suitable programming language for the development of web applications,
- use and model data sources as well as justify proposals for solutions
- implement and evaluate web user interfaces as well as justify and communicate solution proposals to collaborative partners and users
- use relevant theories and methods for the quality assurance of all phases of development.

*Competencies*

The student can:

- handle complex web development and must be able to handle complex and development-oriented situations in web development
- independently enter into professional and interdisciplinary cooperation with a professional approach and take responsibility within the framework of professional ethics in relation to web programming,
- identify and structure their own learning needs and develop personal skills and competencies in relation to web programming.



| <b>Development Environments</b>   |
|---|
| <b>Timing:</b> 1 <sup>st</sup> semester   |
| <b>Scope:</b> 10 ECTS   |
| <p><b>Contents:</b></p> <p>This subject element comprises tools and platforms for the development of web-based applications, as well as selection and justification of the choice. Focus is on normally used development tools (IDE and other platforms) as well as tools for version control and quality assurance.</p>  |
| <p><b>Learning objectives:</b></p> <p><i>Knowledge</i></p> <p>The student has development-based knowledge of applied theory and methods:</p> <ul style="list-style-type: none"> <li>• in development environments</li> <li>• in practice, methods and systems for version control.</li> </ul> <p>The student can understand and reflect upon:</p> <ul style="list-style-type: none"> <li>• types of and selection criteria for development platforms.</li> </ul> <p><i>Skills</i></p> <p>The student can:</p> <ul style="list-style-type: none"> <li>• master version control in a development context,</li> <li>• apply methods and tools for quality assurance in the development process, as well as evaluate and justify the choice of specific tools,</li> <li>• apply methods and tools in development environments for the publication of web applications,</li> <li>• communicate their choice of methods and tools used in the development process.</li> </ul> <p><i>Competencies</i></p> <p>The student can:</p> <ul style="list-style-type: none"> <li>• methodically evaluate and handle development platforms and environments for a specific task in complex development-oriented situations,</li> <li>• manage development platforms and environments in the development process of advanced web applications,</li> <li>• independently enter into professional and interdisciplinary cooperation with a professional approach and take responsibility within the framework of professional ethics in relation to development environments.</li> </ul> |

| <b>User Experiences</b>   |
|---|
| <b>Timing:</b> 2 <sup>nd</sup> semester   |
| <b>Scope:</b> 10 ECTS   |
| <p><b>Contents:</b></p> <p>The subject element comprises analysis, understanding of and reflection upon the user's experiences and needs in different use contexts.</p> |

The subject element includes the design of user interfaces and usability, and considerations about information architecture and instruments and the use of web media tools. There is a focus on understanding and organising user experiences in relation to design and development.

### **Learning objectives:**

#### *Knowledge*

The student has development-based knowledge of:

- practice, applied theory and methods of designing user experiences, and also reflect upon the web developer's practice in designing user experiences
- information architecture
- aesthetics and trends in interaction design.

The student can understand and reflect upon:

- the use of user survey methods.

#### *Skills*

The student:

- can use methods and tools to design user experiences for relevant target groups with the involvement of users
- evaluate practice-based and theoretical problems in the design of user interfaces and select and justify relevant solution models
- communicate practice-based and specialist problems in the design of user experiences and communicate central problems to collaborative partners and users.

#### *Competencies*

The student can:

- handle complex design processes based on analysis and planning
- both independently and in groups, understand the design and organisation of user interfaces and user experiences for complex systems
- identify and structure personal learning needs and develop personal skills and competencies in relation to the design of user experiences.

### **3.3. Local educational elements and electives**

In addition to the national educational elements, the programme consists of a number of local educational elements, including electives. Electives provide an opportunity for students to adjust their education in relation to their interests and future career paths. The electives all concern web programming.

Below the local educational element that apply to all students is described, and in the Electives Catalogue for the programme, descriptions of electives can be found.

| <b>Databases</b>   |
|--|
| <b>Timing:</b> 2 <sup>nd</sup> semester  |
| <b>Scope:</b> 5 ECTS   |
| <p><b>Contents:</b> The subject element comprises analysis, understanding, design and reflection upon databases and data modelling in general.<br/>As well as practical experience with developing, implementing and integrating databases according to recognised standards within the web development area, to fulfill the requirements needed when developing web applications.</p>   |
| <p><b>Learning Objectives:</b></p> <p><i>Knowledge</i><br/>The student has development-based knowledge of:</p> <ul style="list-style-type: none"> <li>• Relevant types of databases for web development</li> <li>• Data modelling</li> <li>• Data exchange with commonly used methods</li> <li>• Basic security issues and methods to protect the database</li> </ul> <p><i>Skills</i><br/>The student can:</p> <ul style="list-style-type: none"> <li>• Use and evaluate databases for the development context</li> <li>• Create a data model based on the development context</li> <li>• Exchange data with the database</li> <li>• Secure a database against basic attacks</li> <li>• Use relevant methods and tools to communicate and document database design</li> </ul> <p><i>Competencies</i><br/>The student can:</p> <ul style="list-style-type: none"> <li>• Reflect on a chosen data model against the development context</li> <li>• Choose an appropriate way to exchange data for the development context.</li> </ul> |

| <b>Research and Quality Assessment</b>   |
|--|
| <b>Timing:</b> 2 <sup>nd</sup> semester  |
| <b>Scope:</b> 5 ECTS   |
| <p><b>Contents:</b> The local educational element Research and Quality Assessment enables the student on a methodical and systematic basis to gain and communicate knowledge that is relevant to professional web development. The student will be able to reflect on industry standards and own practice and thereby contribute to the development of the profession.</p> |
| <p><b>Learning Objectives:</b></p> <p><i>Knowledge</i><br/>The student has knowledge of:</p>   |

- key concepts in academic research
- types of sources and their quality
- methods for generating knowledge and quality assessment
- different forms of communication

#### *Skills*

The student can:

- identify and define problems
- for a given problem choose appropriate forms of research
- conduct studies methodically
- draw conclusions from the results of the studies and put them into perspective
- communicate the study to well-defined target groups

#### *Competences*

The student can:

- find and quality assess sources of professional knowledge
- through systematic research contribute to the creation of new professional knowledge

### **3.3.2 Electives**

#### *About registration for elective courses*

The students must register requests for registration for elective subjects in the manner described by the program and by the deadlines that the program publishes. If the program does not receive an elective subject request from a student in time, the student and elective subject are registered as the program selector.

The education can be prioritized according to registration time, where there are more registration requests than elective places. Furthermore, where there is not a sufficient number of registered students, the program may decide not to create an otherwise offered elective.

The students receive notification of which electives they are registered for.

### **3.4. Internship**

The bachelor's degree programme in web development includes both theory and practical experience with the purpose of supporting the students' continuous learning process and contributing to the fulfilment of the learning objectives specified for the study programme. During the internship, students are faced with professionally relevant issues and become familiarised with relevant job functions. The student

actively and independently seeks a placement with one or more private or public companies, and Cphbusiness ensures that the internship settings are satisfactory.

The internship is unpaid.

|  |
|--|
| <b>Internship</b>  |
| <b>Timing:</b> 3 <sup>rd</sup> semester  |
| <b>Scope:</b> 15 ECTS  |
| <p><b>Learning objectives:</b></p> <p><i>Knowledge</i><br/>The student can:</p> <ul style="list-style-type: none"> <li>• understand and reflect upon theories and methods and their practical application.</li> </ul> <p><i>Skills</i><br/>The student can:</p> <ul style="list-style-type: none"> <li>• apply one or more of the subject area's methods and tools, and can also apply the skills related to employment in the subject area(s) or profession</li> <li>• evaluate theoretical and practical problems and also justify and select relevant solution models</li> <li>• communicate specialist problems and solution models to peers and non-specialists or collaborative partners and users.</li> </ul> <p><i>Competencies</i><br/>The student can:</p> <ul style="list-style-type: none"> <li>• handle complex and development-oriented specialist situations in relation to the profession,</li> <li>• identify personal learning needs and structure their own learning in different learning environments,</li> <li>• independently participate in an expert and interdisciplinary collaboration with a professional approach.</li> </ul> |
| <b>Assessment:</b> The internship is completed with 1 exam with assessment after the 7 point grading scale.  |

### 3.4.1. Rules Regarding the Internship

#### *Requirements for the parties involved*

The hosting company, offering the internship, provides a contact person who must be available to the student for the duration of the internship. The contact person and the student must jointly draw up an internship agreement. This agreement must be in writing and should outline the types of tasks and assignments the student will face during his/her internship. The internship agreement must take into account not only the learning objectives of the internship stipulated in this curriculum but also the student's prior knowledge, training and qualifications.

The internship agreement must be submitted afterwards for approval at Cphbusiness.

Close contact will be established between the student and one of the Cphbusiness appointed internship supervisors, who will act as the student's sparring partner for the duration of the internship and in addition the report examiner.

A manual describing the internship process in detail is available through Cphbusiness.

Upon completion of the internship period, both the student and the hosting company will have to participate in an electronic evaluation of the internship period. The student must complete the evaluation in order to attend the exam. The internship is unpaid.

*Roles and responsibilities of the parties involved*

| <b>Student</b>   | <b>Company</b>  | <b>Cphbusiness</b>  |
|--|---|---|
| Seeks a placement with a company   | Provides a contact person                                       | Ensures satisfactory internship settings<br><br>Appoints a Cphbusiness internship supervisor  |
| The student and hosting company collaboratively draw up an internship agreement that takes into account the learning objectives of the internship                              |   | Discusses the internship agreement with the student<br><br>Approves the submitted internship agreement, provided that it meets Cphbusiness' demands |
| The student and hosting company cooperate during the internship<br><br>The contact person and the internship supervisor support the student for the duration of the internship |   |   |
| (Writes an internship report)  |   |   |
| Participates in an evaluation of the internship  | Participates in an evaluation of the student and the internship |   |
| (Attends the exam)   |   | (Conducts the exam)   |

### 3.5. Teaching and Working Methods

At Cphbusiness, our learning approach is that business competencies are best developed when the study activities of the study programme put practice and concrete issues at the heart of learning. Further, we believe that that it is the work of creating value in practice that drives the motivation and commitment of our students.

Cphbusiness uses an education model that focuses on:

- Facilitating a motivating and engaging learning environment based on practice
- Transposing and disseminating relevant knowledge from research and industry in a concrete practice
- Supporting students' active participation and study intensity through relevant study activities
- Involving students' knowledge and work experience as a resource so that students are co-creators of learning
- Supporting learning through ongoing dialogue and a common feedback culture
- Flexible work, involving digital learning activities, focusing on using our resources and improving student learning outcomes, independent of time and place.

There are several different forms of teaching and working at Cphbusiness that support student learning. For example: lectures, case work, small assignments, practical and theoretical exercises, laboratory work, oral presentations, homework, excursions, etc.

Teaching is structured in one or more learning flows per semester.

The purpose of the various forms of working is for students to acquire knowledge, skills and competencies within the subject areas of the study programme, through the chosen approach, and to apply these in accordance with the learning objectives of the study programme.

### **3.6. Language of Instruction**

Web Development is an English taught programme, and all teaching is in English. In some cases, students may be able to take electives in Danish, and students are free to enter into an internship agreement with a company in which the spoken language is Danish.

Educational elements taught in English are examined in English, cf. subsection 5.6.

## **4. INTERNATIONALISATION**

### **4.1. Study Abroad**

All full-time studies at Cphbusiness must be organised in a manner that allows students the opportunity to take at least one of the study programme components abroad within the nominal length of study.

The possibility of studying abroad pertaining to the programme includes:

- The internship
- Bachelor project

Educational elements taken abroad can be approved for credit transfer if they are compatible with and meet the requirements regarding contents and level stipulated in this curriculum.

Students wishing to study abroad have to apply for credit transfer before the period is initiated in due time to receive a pre-approval of credit transfer. The decision as to whether the educational elements can be approved for credit transfer rests on Cphbusiness' evaluation of the contents and standards offered by the educational institution or host company.

As part of the pre-approval process, students must consent to Cphbusiness obtaining information relevant to the final credit transfer following the period of study abroad. A pre-approved educational element will be regarded as successfully completed if the student has passed the element in accordance with the regulations in effect at the hosting educational institution. When the period abroad is completed, students who have received a pre-approval of credit transfer have to document that they have successfully completed the pre-approved educational elements.

## 5. EXAMINATION AND ASSESSMENT

### 5.1. General Rules Regarding the Exam

The latest versions of the ministerial orders on examinations and grading apply to examinations at Cphbusiness (at the time of preparation of this curriculum: no. 2027 of 7 November 2021 on examinations (the Examination Order) and no. 548 of 29 April 2022 on the grading scale and other forms of assessment (the Grading Scale Order)). In addition, the Cphbusiness regulations and programme specific documents concerning examinations in effect at the time in question apply to examinations.

### 5.2. Description of Assessment of Educational Elements



An overview of the examinations for Web Development is provided below. Requirements and details on the specific examinations, including dates, form and materials, the use of aids during examination, etc., are made public to the students in examination catalogues on the Learning Management System.

Each examination, which may test several educational elements concurrently, will appear with one grade on the final diploma.

*Diagrammatic outline of the links between the examinations and the educational elements and the structure of the study programme*

| Semester        | Name of examination (internal/external)    | Educational element       | ECTS | Examination format                         | Noted on the diploma |
|-----------------|--|---------------------------|------|--|----------------------|
| 1 <sup>st</sup> | Web Programming (external)                 | Web Programming           | 20   | Project with oral examination              | One grade            |
|                 | Development Environments (internal)        | Development Environments  | 10   | Project with oral examination              | One grade            |
| 2 <sup>nd</sup> | Databases (internal)                       | Databases                 | 5    | Project with oral examination              | One grade            |
|                 | User Experience (internal)                 | User Experience           | 10   | Oral examination                           | One grade            |
|                 | Research and Quality Assessment (internal) | Local educational element | 5    | Oral examination                           | One grade            |
|                 | Elective (internal)                        | Elective                  | 10   | Oral examination                           | One grade            |
| 3 <sup>rd</sup> | Internship examination (internal)          | Internship                | 15   | Oral examination                           | One grade            |
|                 | Examination in bachelor project (external) | Bachelor project          | 15   | Oral examination based on bachelor project | One grade            |

## 5.3. Other Requirements for Completion of Activities

Besides the examinations mentioned above, students are required to attend and have a number of mandatory study activities approved in order to attend the exam and continue their learning, cf. the Examination Order section 9 and section 33, subsection 6.

### 5.3.1. Mandatory Learning Activities: Requirements for Participation and Submission of Assignments

In order to attend some of the exams, students must have a number of mandatory learning activities approved. If the mandatory learning activity is not approved, the student cannot attend the exam, which counts as an attempt at the exam. The student is automatically signed up for the re-examination; however, the student must still pass the mandatory learning activity, as it is a prerequisite for attending the exam. The mandatory learning activities vary, depending on the educational elements. Examples of mandatory learning activities include requirements for participation, presentations, assignments, etc. The mandatory assignments for Web Development can be found in the examination catalogue for the study programme.

### 5.3.2. The Study Start Test

Cphbusiness conducts study start tests on all full-time study programmes. A student must fulfil the study start test requirement in order to remain enrolled at the study programme, cf. the Examination Order section 30.

#### Study start test

**Timing:** The study start test must be conducted no later than two months after the commencement of the study programme

**Form:** Details about the study start test are described in the examination catalogue for the particular programme

**Assessment:** Approved/Not approved

**Admission requirements:** None

**Consequences of not passing:** If the student does not fulfil the study start test requirement in the first attempt, the student has another attempt, which must be conducted no later than three months after the commencement of the study programme. If the student does not fulfil the test using on the second attempt, the student cannot continue on the study programme and his/her enrolment will consequently be cancelled, cf. the ministerial order about on exams examinations section 30 and the ministerial order on enrolment section 36, subsection 1, number 2.

**Specific for the study start test:** It is possible to rapport a complaint to the institution concerning the result of the study start test, cf. the ministerial order on examinations section 38.

Cphbusiness can grant exemptions from the appointed time required to fulfil the study start test requirement. Exemptions can be granted in cases of serious illness, childbirth or unusual circumstances. Such cases must be documented.

## 5.4. The Bachelor Project

The bachelor project must document the students' ability to understand and analyse a practice-based problem related to their respective fields of study by means of relevant theory and methodology. The project, and the student should therefore cover central subjects from the programme, possibly in cooperation with a private or public company, formulates a problem statement (which must be key to not only the programme but also the respective type of industry/profession). Cphbusiness will subsequently approve the problem statement.

The examination in the bachelor project is conducted as an external examination, which, together with the internship report and other programme examinations, should document that the learning objectives of the programme and requirements are met. The examination comprises a written part and an oral part that result in a single joint grade. The examination can only take place after the student has passed all other educational elements. For more about the bachelor project examination, consult the manual on the bachelor project.

### Bachelor Project

**Scope:** 15 ECTS

**Timing:** By the end of 3<sup>rd</sup> semester

**Purpose:**

In the bachelor's project, the student must be able to document their ability to process, on an analytical and methodical basis, a complex and practice-oriented problem in relation to a specific task within the field of web development. The student, possibly in collaboration with a private or public sector company, formulates the problem, which must be central to the programme and the profession. The institution approves the problem.

**Learning objectives:**

The learning objectives for the final examination project are identical to the programme's learning objectives, which are listed above in paragraph item 1.1

**Assessment:**

The bachelor project concludes the final semester of the programme, once all prior exams have been passed.

The exam consists of both an oral and written test with an external examiner, where an overall individual grade is given according to the 7-point grade scale for the written project and the oral presentation.

### **5.4.1. Importance of Verbal and Writing Skills**

The students' spelling and communication skills are included in the assessment of the bachelor project, regardless of the language in which the bachelor project has been written. Nevertheless, the project's content and relevance are decisive; cf. the ministerial order on examinations, section 13, subsection 2.

### **5.5. Aids during Examination**

In general, all forms of aid are allowed during examinations, unless stated otherwise in the examinations catalogue for the particular programme.

### **5.6. Examination Language**

The examination language is equivalent to the language of instruction, i.e. if the language of instruction is English, the examination will be conducted in English. Where the examination language is Danish, the student may choose to conduct the examination in Swedish or Norwegian, unless the purpose of the examination is to demonstrate the student's proficiency in Danish, cf. the ministerial order on examinations, section 23.

## **6. OTHER RULES**

### **6.1. Credit Transfer**

In some cases, Cphbusiness may be able to transfer credits for educational elements, or parts hereof, completed at other educational institutions, provided that the elements in question correspond to elements included in this curriculum. Cphbusiness bases the decision about a possible credit transfer on an assessment of the element's content, level etc.

A subject element transferred from a study abroad is considered completed, if the element is passed in accordance with the rules of the particular study programme. Students are obliged to notify Cphbusiness of any previously passed educational elements at a higher educational level, which includes both Danish and foreign higher education courses, presumed to be transferable. Cphbusiness handles all applications for credit transfer according to these rules.

## **6.2 Change of study programme**

Change of study programme at the same or another educational institution is regulated by the rules of the study programme receiving the student.

Changing to the same study programme at another institution cannot take place until the student has passed examinations corresponding to the first year of study at the programme receiving the student unless special circumstances apply, cf. the ministerial order on admission and enrolment section 35, subsection 4. A change of study programme can only take place in case of vacancies on the study programme on the the receiving institution.

## **6.3 Exemptions from the Curriculum**

Under special circumstances, Cphbusiness is entitled to grant exemptions from rules stipulated in this curriculum. Students have to submit a request for exemption, which must specify and document the reasons for exemption. Cphbusiness will subsequently process the request and notify the student of the decision once it is made.