

Curriculum part 5 - 2014

Final exam project - AP Degree in Computer Science

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Version 1.3 Revised April 2016

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1. The purpose of the final exam project on the Computer Science programme

To finalise your studies, you have to complete an exam project either alone or together with one or two fellow students. The purpose of the final exam project is for the student to document his/her ability to process complex and practical issues relating to a specific IT-related task using an analytical approach and relevant methodologies. The exam project must address the key issues covered in the Computer Science programme and the scope must be equivalent to 15 ECTS credits.

The purpose of the exam project is to promote both your professional and your personal development. In other words, you need to develop your skills by:

- solving a practical problem, in principle based on a private or public company/organisation
- applying theory and methodologies taught in the degree programme to a practical issue
- combining knowledge from several subject areas
- preparing the necessary documentation to substantiate the chosen methodology
- processing, analysing and evaluating gathered information
- reflecting on the choice of methodology, techniques and tools used in the solution
- suggesting a solution or parts thereof, for example in the form of a concrete product

2. Topic of exam project

The topic of the final exam project is formulated by the student together with the supervisor and preferably also in collaboration with a company.

It is up to you to prepare a project description for the project in collaboration with the company in question and the Academy's supervisor. Use your supervisor during this phase. The supervisor must approve the subject and the project description.

Also see section 3.3.

The oral exam is individual and each student must be able to defend the entire project.

3. Formal requirements

The student must have passed all previous exams, including the internship exam, to be permitted to complete the final exam project.

The actual report excluding the table of contents but including the list of references should be max 40 pages per student, if the student writes alone, and further 20 pages per following students, if the assignment is made in a group. Footnotes, etc. also count. One page corresponding to 2,400 characters including spaces per page.

The table of contents, bibliography and appendices do not count towards the total number of pages.

It should be possible to read the entire text without referring to the appendices (appendices are not subject to assessment).

The project should not contain any quotations without source references. The project must use a referencing system that ensures that the reader always knows, or is able to look up, the sources of statements, tables or models.

Quotations without references are deemed to be plagiarism and can result in the project being rejected.

If the project contains programming this should be uploaded in Wiseflow as an appendix in pdf format. A zip file containing the source code should be uploaded in Wiseflow as well in the format and structure in which the project has been made.

You must prepare an extensive bibliography and list of appendices in accordance with the *Harvard* standard (always available on the library website).

You should also use notes for detailed explanations, specifications, referrals, etc.

For further hints about the bibliography, etc. see the memorandum "Tips & Advice Final Project" on fronter.

3.1. Front page

The front page of the project should include the title of the programme, the names of the educational institution and the student(s) submitting the project, class, supervisor, the title of the project, the name of the company and the date of submission. You should also indicate the scope of the assignment divided on report and appendices.

If the project is confidential, this should be indicated on the front page. In that case, the project will not be made publicly available at the library.

The front page should also include a synopsis, which is a brief description of the project (i.e. purpose and results). It is preferable if the description is sufficiently comprehensive to enable curious outsiders to get a clear picture of what the report contains. In other contexts, the rule of thumb is that the synopsis should be max 200 words.

The project can be structured as suggested below.

3.2. Table of contents, etc.

The project must include a table of contents showing the structure of the project in headings and sub-headings with corresponding page numbers.

If the project includes programming, you should agree with your supervisor whether all coding has to be printed and included as appendices or whether some or all of it can be submitted on a CD/DVD.

3.3. Project description

The description of the project will form the basis of the assessment of the academic level of the project.

It should by 1-2 A4 pages long and contain:

- Title
- Name of company/organisation, including contact person and the degree of participation of the company/organisation, such as individuals, hardware, software and other demands/requirements to the company/organisation
- If you work on the project as a group, the names of the participants
- Background and purpose of the project
- The expected outcome of the project in the form of a very brief description of the products you expect to develop

If you are two or three students completing the project together, the project description and report should have an extent to warrant the participation of two or three students. Each of you has to

contribute an amount of work towards the shared project that equals the amount of work provided by a single student completing an independent exam project.

3.4. Pre-study (if relevant)

- Project basis
- · Project planning, pre-study
- Company description
- Analysis report
- Visions

3.5. Description of the company (if no pre-study)

Thorough description of the company and its problems

3.6. Development project and choice of methodology

- Project set-up
- Choice of methodology
- Project planning, development project
- Description of the process
- Description of the product

3.7. Reflections

- Reflections on the chosen methodology
- Reflections on the teamwork and distribution of roles
- Reflections on product and process

3.8. Conclusion

Summary of the main problems in the project with reference to the project description

3.9. Appendixes

• The project must include a list of appendixes unless included in the table of contents. The appendixes must be numbered and pages must be numbered sequentially. You should only include appendixes to which you refer in the text

3.10. Other formal requirements

For information about referencing, etc., see "Tips & Advice Final Project" on fronter.

3.11. Collaboration with the company for which the project is carried out

Business Academy Aarhus expects that you complete the project in collaboration with a specific company.

The students are normally responsible for finding a company to work with. However, it does occur that a company approaches the Academy, which then establishes the contact. In both cases, the collaboration is primarily your responsibility. There is therefore no direct communication between the company and the Academy. You should pay special attention to the following: preparing a

suitable project description, agreeing on meetings, updating the company along the way and concluding the collaboration with a meeting or other form of hand-over of the product.

See also the next section on copyright and confidentiality.

3.12. Copyright and confidentiality

Legally, the general rule is that the copyright automatically belongs to the student, unless otherwise agreed. To prevent problems from occurring at a later stage, this issue should be discussed with the company at the very beginning, and a written agreement entered into. The Academy's recommendation is that you allow the company to retain the copyright. After all, they are making their resources available to enable a couple of students to complete their degree programme. Alternatively, the company is fully entitled to refuse to participate as sponsor of your main project.

The report may also contain information that the company would like to keep confidential. This is not the same as ownership or copyright. The company is entitled to request that business information and the information included in the report be kept confidential. The teacher, the external examiner as well as the students have a duty of confidentiality. A company may request that the report be filed so that it is not made publicly available at the library. This should also, as previously mentioned, be stated on the front page of the project.

4. Supervision

We recommend that you make the most of your opportunities for supervision throughout the project.

A large part of the supervision involves discussing the project description, methodology, choice of theory, product development and layout. It is normally necessary to discuss the draft more than once.

The supervisor is not obliged to read your chapters in draft form, and the supervisor also cannot and is not allowed to approve the whole or parts of the project in advance.

It is up to the student to initiate this process. The supervision is governed by the student's questions. It is important to be well prepared for the discussions with the supervisor.

5. Assessment criteria

Your supervisor and an external examiner assess the project and participate in the oral defence.

Grading will be based on a number of general aspects, irrespective of the academic area covered by the project:

Consistency	Is there consistency between the project description, the chosen methodology, the content and the conclusions of the project?
Problem	Does the project description address the problem, clearly defining its content and scope?
Application of theory and methodology	Has the student provided clear reasons for the choice and use of methodologies and theories?
Correlation between theory and practice	Correct use of theory, problem solution and programming quality
Complexity and	Does the project address new problems/theories compared with

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reflection previous degree programme(s), and does the project include

assessments/reflections on these problems?

Product Does the program work? Has the program been tested? Has the program

been fully completed? Does the project describe future perspectives for

the product? Is the program user-friendly?

Conclusion Does the conclusion provide an answer to the project description?

Formal requirements Have formal requirements been complied with? See section 3

Language Spelling and formulation form part of the assessment

Presentation The presentation must be well prepared and shared between the

members of the group, if applicable. The presentation should

supplement the written text appropriately and not merely be a summary

of the report

Although you may complete the project as a group, you will be examined individually and will be given individual grades.

The basis of assessment of the final project therefore consists of the following three components:

- 1. The product (report and program, if any) you submit (see description above)
- 2. Your own presentation and evaluation of the project
- 3. The discussion that follows your presentation

6. Submission

The project report must be uploaded in Wiseflow by the submission deadline at the latest.

Failure to submit or late submission:

Students who fail to submit the exam project in time are deemed to have failed to sit the exam, and projects submitted after the due date are rejected. The student then has the option of re-sitting the exam based on a new project.

Failure to submit on account of illness:

If the student falls ill within the last 14 days before the submission deadline, the student can obtain an extension upon submission of documentation to the Academy.

Problems with computers, printers or copiers are of no concern to the Academy and do not constitute grounds for an extension of the submission deadline.

7. Grading

The exam certificate contains a single grade for the written exam project and the subsequent oral exam.

8. Oral exam

The duration of the oral exam is approximately 30 minutes.

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The exam may take place in accordance with the following model:

You present key issues from the project based on a prepared outline. This may involve expanding on items in the solution and/or a more detailed discussion of other project components. It is important that your presentation includes a critical evaluation of the solution provided in the project.

This presentation should take approximately 10 minutes.

The Academy attaches importance to an independent presentation and a good presentation technique.

The supervisor will use the rest of the time to discuss individual components of the project.

The external examiner at the oral examination is the same who assessed the written part of the project.

Oral exams begin early June/January and follow the Academy's examination schedule.

Students who have failed to pass all prior examinations cannot be referred for assessment.

The oral exam is individual, i.e. all students sit individual oral exams.

9. Re-examination

To pass, a student's exam project must be awarded a grade of 02 or more. The following applies to re-exams:

- You have to choose a different topic
- The exam project must be submitted as agreed with the Academy
- The date of the oral exam will be determined after submission.

10. Archiving of the exam project

The Academy archives one copy of each submitted exam project.

If it is stated on the front page that the project is confidential, only the supervisor and the external examiner will be permitted to read it.

11. Important dates

The submission deadline for the final exam project is available on the Academy's calendar on fronter.