

Requirements for writing a bachelor thesis

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1 Requirements for the thesis

The bachelor project must document the student's understanding and ability to reflect over professional practices and application of theory and methods in relation to a practical problem statement. The problem statement should be central to the education and profession, formulated by the student, possibly in collaboration with a private or public company. The school must approve of the problem statement[1, my translation].

1.1 Learning objectives

The student must prove that they have gained knowledge, skills and competencies during their education.

1.1.1 The knowledge the student has gained must include:

- The strategic role of tests in system development.
- Globalization of software production.
- System architecture and understanding of it's strategic meaning for the company's business.

- Utilized theory and methods and technologies from the domain.
- Different types of databases and their application.

[1, my translation]

1.1.2 The skills the student has gained must include:

- Integrate it-systems and develop systems, which support future integration.
- Use contracts as a management and coordination tool in the development process.
- Evaluate and choose databases and design, redesign and optimize databases.
- Plan and manage development processes with many geographically separated participants.
- Plan and complete testing of larger it-systems.

[1, my translation]

1.1.3 The competencies the student has gained must include:

- Identify relation between applied theory, methodology and can reflect over their suitability in different situations.
- Participate in a professional collaboration for development of large systems by applying widespread methods and technologies.
- Familiarize themselves with new technologies and standards for handling integration between systems.
- Develop their own competence profile from being primarily a backend-developer to handle tasks as a system architect through practice.
- To determine and realize a business as well as a technologically appropriate architecture for large systems.

[1, my translation]

2 Formalities

The maximum size of the bachelor thesis is 40 normal pages (2400 characters per page) + 20 normal pages per student. There is no minimum requirement for the size of the thesis.[2] That means a student who writes his thesis alone must at max write 60 pages, and a group of two students must at max write 80 pages.

3 Content

The bachelor report must focus on one or more of the mandatory courses of the program, which includes:

- System integration
- Test
- Databases for Developers
- Large Systems Development

[3]

References

- [1] Lars Bogetoft, Kirsten Ringgård, and Ole Gram-Olesen. Studieordning for professionsbacheloruddannelsen i softwareudvikling. (Danish) [curriculum for the professional bachelor education in software development]. https://www.cphbusiness.dk/media/78341/pba_soft_cba_studieordning_2017.pdf, 2017. p. 16-17, Accessed: 25-10-2020.
- [2] CPHBusiness. Bachelor project kick-off spring 2019. <https://datsoftlyngby.github.io/soft2019spring/BAP-Kick-off.pdf>, 2019. p. 4, Accessed: 25-10-2020.
- [3] CPHBusiness. Bachelor project kick-off spring 2019. <https://datsoftlyngby.github.io/soft2019spring/BAP-Kick-off.pdf>, 2019. p. 6, Accessed: 25-10-2020.