Offered by
ICT Engineering

IT-BPR1

1.0

Bachelor Project Preparation

ECTS
5

Prerequisites
To have passed 1st to 5th semester, or equivalent to 150 ECTS.

Main purpose
The purpose of the course is to prepare the student for the Bachelor Project. In preparing the Bachelor Project students learn to recognize important sets of problems within the professional area, alternative solutions to them and the demands of companies and their environments. In the course the students are taught how to apply scientific knowledge and work methods to their own field in new and changing situations. They also learn to communicate orally and in writing on questions related to the area of research, as well as methods for collecting data and testing their solutions.

Each bachelor project group must consist of 2-3 students. One-person groups are not allowed!

It is recommended to find the project in association with an external company or organization.

Knowledge
After having completed this course, the student should have knowledge about:

- Performing information search and retrieval
- Project planning
- Delimitating a problem and a problem domain
- Motivation theory
- Team work and team dynamics
- Communication and presentation skills
- Testing

Skills
After having completed this course, the student should be able to:

- Identify and justify problems and their context
- Select and argue for choice of methods and reflect critically on said methods
- Find and assess relevant literature within the problem domain
- Present the result for an audience of engineers

Competences
After having completed this course, the student should be able to:

- Describe and delimit a larger ICT Engineering project
- Plan and structure the project within the set time limit
- Initiate the preliminary steps in an systems development process, leading to a clearly defined requirements capture, use cases, as well as object and behaviour analysis
- Work successfully in a project group with the objective of solving a well-defined engineering problem

Topics
The Bachelor Project Preparation includes:

- Group dynamics
- Report writing
- Presentation techniques
- Time schedule and milestones
- Brainstorming techniques
- Document version control
- Reference/citation model and literature search
- Work flow management
- Automatic build servers – including automated tests
- Test technologies
- Data collection

Teaching methods and study activities
Supervision, theory and independent work, project presentation of group work.

Study Activity Model

Resources
To be announced on Studynet.

Evaluation
The basis of the evaluation is the “Project description” and a draft of the analysis part of the project.

Grading criteria
Pass/fail based on the quality of the handed in work.

Internal assessment.

Additional information
The Project Description must contain minimum 8 pages plus appendices.
The analysis part of the project must contain at least requirements, use case and descriptions, activity diagrams, analysis class diagram with a scope of minimum 5 pages.

Responsible
Poul Væggemose

Valid from
1.1.2017

Course type
ICT Engineering;Compulsory Course for all ICT Engineering;6. semester;Compulsory for the specialization Business Information Systems;Compulsory for the specialization Cross Media;Compulsory for the specialization Embedded Engineering;