

Bachelor Project (BCS) (B-UCLL-MBI32J)

9 ECTS  English  Second term  Cannot be taken as part of an examination contract

 **Vandenbroeck David** (coordinator) | **Bertels Wim** | **Vandenbroeck David**

POC PBA Toegepaste informatica (Leuven)

Aims

DLR 3. The professional bachelor in IT designs, builds, documents, and tests high-quality IT solutions.

- The student is capable of independently designing, building, documenting and testing a high-quality IT solution based on a concrete case.

DLR 7. The professional bachelor in IT provides advice on IT solutions, products, services and technologies for various domains and/or sectors.

- The student creates a shortlist of relevant IT solutions, products, services and technologies for a domain or sector based on clear criteria.
- The student can compare different technologies and solutions.
- The student can choose the best solution for the given problem statement.
- The student can justify their decisions made, even to individuals without a technical background.
- The student can describe the impact on people, society and the climate for a solution, product, service, and technology, by utilising sustainability themes such as ethics, energy and digital inclusion.

DLR 8. The professional bachelor in IT can independently approach an assignment in a project-based manner in a multidisciplinary and/or multicultural team. The professional bachelor in IT can perform basic leadership tasks and design, interpret, execute, adjust and explain a project plan.

- The student can independently, or as part of a team design, adjust, and explain a basic project plan.

DLR 9. The professional bachelor in IT communicates at least in Dutch and English, orally and in writing, adapted to the target audience.

- The student can consult English professional literature and is able to write conclusions from these.
- The student can formulate advice clearly, tailored to the target audience, in Dutch and/or English regarding IT solutions.
- The student can write a basic project plan adapted to the target audience in Dutch and/or in English.
- The student can independently create a presentation and demo regarding an IT topic and present it convincingly in Dutch and English.

DLR 11. The professional bachelor in IT is entrepreneurial, takes initiative and responds to new developments and application domains.

- The student remains curious and seeks to enrich themselves with new technologies.
- The student can independently consult manuals and familiarize themselves with a new technology.

Identical courses

This course is identical to the following courses:

MBI21H : Bachelor Project

MBI53H : Bachelor Project (sem 1)

MBI23J : Bachelor Project (Sem 1 - BCS)

Is included in these courses of study

PBA Applied Computer Science (Leuven), 180 ects. 

Activities

9 ects. **Bachelor Project (BCS) (B-UCLL-MBI32j)** 

9 ECTS  English **Format: Assignment**  Second term

 **Bertels Wim** | **Vandenbroeck David**

POC PBA Toegepaste informatica (Leuven)

Content

As a final component of their education, the "bachelor project" will challenge students to independently carry out a project and apply the knowledge they have acquired during their studies. Additionally, it is expected that students will be able to explore, compare, and apply new technologies that they may not have encountered in their program. The students will be presented with a complex case that they need to approach in a project-oriented manner, integrating the competencies and skills they have already acquired in their education and utilizing appropriate tools and methodologies.

Upon completion of the project, students must also demonstrate their knowledge and experience through documentation/research and provide a professional demonstration of their work to an (external) jury.

Course material

The study materials will be made available through the online learning platform Toledo, including any access to external platforms or websites.

Language of instruction: more information

This educational component is offered in English.

Format: more information

The student will be presented with a complex case that they will tackle independently and project-based, either individually or in a group. This may involve the development of a proof-of-concept or a research assignment.

Evaluation

Bachelor Project (BCS) (B-UCLL-M83290)

Type : Partial or continuous assessment with (final) exam during the examination period

Description of evaluation : Oral, Paper/Project, Project/Product, Report, Presentation, Self assessment/Peer assessment, Process evaluation

Type of questions : Open questions

Explanation

Assessment	Grading scale
TOTAL	1-20/20 scale

Grades to be achieved: 20

- 8 grades for the deliverable (proof-of-concept or research)
- 3 grades for the development process (collective report)
- 3 grades for the reflection (Individual final report)
- 6 grades for the presentation and demo

The final grade of the collective report, the presentation and the deliverable will depend on the outcome of the peer evaluation. Further explanation regarding the evaluation of the bachelor project will be shared on the Toledo course under the section "About the evaluation".

Information about retaking exams

Grades to be achieved: 20

- 8 grades for the deliverable (proof-of-concept or research)
- 3 grades for the development process (collective report)
- 3 grades for the reflection (Individual final report)
- 6 grades for the presentation and demo

For the retake of this course, the student will receive an individual written explanation regarding the parts of the bachelor project that need to be reworked.

Further explanation regarding the evaluation of the bachelor project will be shared on the Toledo course under the section "About the evaluation".

 Required in stage	 Optional in stage	 First term	 Second term	 Both terms
 This year	 Next year	 Alternating years	 External	 Prerequisites
 Taught by	 Language of instruction	 Duration		

