



LTH

FACULTY OF
ENGINEERING

Course syllabus

Projekt i livsvetenskaper Project in Life Science

KMBN02, 15 credits, A (Second Cycle)

Valid for: 2023/24

Faculty: Faculty of Engineering, LTH

Decided by: PLED B/K

Date of Decision: 2023-04-18

General Information

Main field: Biotechnology.

Main field: Food Technology and Nutrition.

Main field: Pharmaceutical Technology.

Compulsory for: MLAK2

Elective Compulsory for: MBIO2

Elective for: B5-l, B5-mb, K5-l

Language of instruction: The course will be given in English

Aim

The aims of this course are to train the student in project oriented work and to give an insight in the important steps that are involved in the development of a product, a process or services within the field.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

Be able to understand and discuss different steps in the development of a product or process

Understand the demands of the development process from a technical, economical and societal perspective

Understand how a project group works, including knowledge on several common tools for project management

Understand how to setup an experimental plan

Competences and skills

For a passing grade the student must

Be able to explain and apply relations between fundamental technical theory and the issues that arise in the chosen development project

Be able to conduct project work independently and collaborate in an international environment

Be able to search, evaluate and use information relevant for the project using university library resources and open electronic sources

Be able to document her/his work in English and to present her/his work orally

Be able to reflect on the role that the student will take in a project group

Judgement and approach

For a passing grade the student must

Be able to work according to established scientific and industrial practice with an understanding of the ethical demands put on the project

Be able to make relevant judgments and validations in a project concerning risks, economy and environmental factors

Be able to identify the need for further learning

Contents

The main focus in the course will be to have the students perform in a group working on a longer project task. The project steps involve innovation process-planning-literature search-evaluation- and reporting. If relevant, laboratory work can be carried out.

Important aspects of the development process, such as project management, risk assessment, process design, statistical evaluation, are supported by lectures.

The course includes lectures, presentations, written reports, laborations, study visits and own reflection.

Examination details

Grading scale: UG - (U,G) - (Fail, Pass)

Assessment: Active participation in the project work, oral and written presentations.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Parts

Code: 0114. **Name:** Project Work in Life Sciences.

Credits: 13. **Grading scale:** UG. **Assessment:** Active participation in the project work, hand in a project report and an oral presentation. Furthermore the student has to participate in mandatory parts of the course such as mandatory exercises, study visits etc.

Code: 0214. **Name:** Project Planning.

Credits: 2. **Grading scale:** UG. **Assessment:** Active participation, written project description and self reflection.

Admission

Admission requirements:

- At least 7.5 credits of courses at A level within a relevant field such as pharma or biotechnology

The number of participants is limited to: No

The course overlaps following course/s: KMBN01

Reading list

- Scientific literature.

Contact and other information

Course coordinator: Docent Ed van Niel, Ed.van_Niel@tmb.lth.se

Course coordinator: Marie Wahlgren, marie.wahlgren@food.lth.se

Course coordinator: Cedric Dicko, cedric.dicko@tbiokem.lth.se

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