

2BIO066 Development of bioproducts and services

Emnekode: 2BIO066

Studiepoeng: 10 credits

Semester

Vår

Språk

English

Krav til forkunnskaper

Prerequisites: 2BIO052-Bioeconomy and Biobusiness I and 2BIO063-Bioeconomy and Biobusiness II

Læringsutbytte

Learning outcomes:

Upon successful completion of the course, the student will have achieved the following learning outcomes:

Knowledge:

The Student

- has advanced knowledge with how to take innovative ideas
- has thorough knowledge in “design thinking” for product and service development

Skills:

The Student

- understands the extra requirements that comes with developing products and

- services in the area of biotechnology
- is able to run innovation processes for companies
- can realize innovative ideas to sellable products and services

General competence:

The Student

- can use methods to lead innovation processes from idea to product and services

Innhold

Content:

In other course we discuss innovation and how to build a business, while in this course we will focus on practical work how to realize an innovative idea. We will teach in methods for innovation management like “design thinking”, and we will let the students get insight into industrial design, fast prototyping, testing of products and services. Special emphasis will be on what it takes to develop a biobusiness product and service, and what the differences are to other business areas.

Boitechnology and biobusiness requires knowledge on how to conduct product development in a very structured way to avoid bringing to market products that fail and/or cause unwanted damage to people, animals and environment. Biological understanding has to be combined with technological skills and training to be able to succeed in the market. This course will train the students in how to manage the innovation process to secure to meet the customer needs and at the same time ensure safety and sustainability.

Arbeids- og undervisningsformer

Organization and Methods of Instruction

The course is delivered as weekly lectures combined with case studies. Students are expected to participate in class discussions. There will be guest lecturers from

Companies.

Obligatoriske krav som må være godkjent før eksamen kan avlegges

Requirements necessary to take the exam

- one or two product or service development case assignment(s) of approximately total 20 pages
- minimum of 80% presence in scheduled classes

Eksamen

Assessment

- individual oral exam

The grading system is based on the letters from A-F, where E is the minimum passing grade

Due to the coronavirus pandemic, changes were made in the spring of 2021 as follows:

- individual digital oral exam

The grading system is based on the letters from A-F, where E is the minimum passing grade

Ansvarlig fakultet

Fakultet for anvendt økologi, landbruksfag og bioteknologi