

Company Visits and Scientific Seminars (O000120)

Course size (nominal values; actual values may depend on programme)

Credits 10.0 Study time 250 h Contact hrs 30.0 h

Course offerings and teaching methods in academic year 2019-2020

A (year)	English	self-reliant study activities	6.0 h
		excursion	24.0 h
		seminar	6.0 h

Lecturers in academic year 2019-2020

Dunne, Michael	KR01	lecturer-in-charge
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Offered in the following programmes in 2019-2020

	crdts	offering
Bachelor of Science in Environmental Technology	10	A
Bachelor of Science in Food Technology	10	A
Bachelor of Science in Molecular Biotechnology	10	A

Teaching languages

English

Keywords

Applications in Biotechnology, Food Technology and Environmental Technology; Industrial applications; company visits; scientific and research seminars; debate

Position of the course

The goals of this course are to give a comprehensive overview of applications of food technology, environmental technology and molecular biotechnology (both medical and plant biotechnology related) in the Korean industrial landscape, agriculture, medical applications, etc. This will be achieved by organizing company visits. In addition, an overview of academic research activities in the three domains will be provided via external seminars and invited guest lectures.

Contents

Part I: Company visits

Up to 6 company visits will be organized, that will expose students to industrial applications of Food Technology, Molecular Biotechnology and Environmental Technology.

Part II: Scientific seminars

Up to 6 scientific seminars will be organized; 2 per graduation major (*i.e.* 2 for Molecular Biotechnology; 2 for Environmental Technology and 2 for Food Technology). These seminars are organized for all students, independent of their graduation direction.

Initial competences

Basic understanding of General Biology, Biotechnology, Molecular Biology and Analysis techniques, Biochemistry, Inorganic and Organic chemistry, Chemical Analytical Methods, Microbiology, Plant and Animal Biology.

Final competences

- 1 The student is aware of industrial applications food technology, environmental technology and molecular biotechnology and their role in society.
- 2 - be aware of the basics of ethical and safety issues related to various industrial applications of the topics addressed in this course
- 3 - understand the basics of the broader bio-industry and its impact on the environment
- 4 - be aware of basic problems that can occur in industrial processes with respect to

the environment

- 5 - be able to discuss the issues connected to the industrialization of the food process
- 6 - understand the basic principles of functional foods and the bio-industry supporting the production of these products
- 7 - be able to assess basic scientific concepts presented in the various fields covered by the seminar sessions
- 8 - be aware of public debates in the context of biotechnology, processed foods, environment etc.
- 9 - be able to compile in writing both knowledge and reflections encountered during the company visits and seminars and adopt a positive attitude towards independent and life-long learning
- 10 - show social and communicative competencies in an international multicultural context and be able to communicate via an English oral discussion

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Excursion, seminar, self-reliant study activities

Learning materials and price

Learning material is provided as PowerPoint presentation and annex material explaining the basics of the seminar content. This material is available on Minerva.

References

Course content-related study coaching

Interactive problem solving and discussions via Minerva. Feedback with seminar lecturers is available

Evaluation methods

continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Examination methods in case of periodic evaluation during the second examination period

Examination methods in case of permanent evaluation

Participation, assignment, report

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible

Extra information on the examination methods

Attendance of the course seminars as well as company visits is obligatory. A brief report of the company visits and scientific seminars needs to be submitted. 50% of the score will be given to a brief report that covers the development of a research idea related to one of the seminars. This report is in group work. 50% of the score will be given as a combined score for company visit reports. This is in group work in which there is a group leader rotation for every company visit so that every group member takes the lead over one of the company visits.

Calculation of the examination mark

Attendance of the course seminars as well as company visits is obligatory. If failure of the course is due to an insufficient evaluation of the report, a new report can be handed in during 2nd examination opportunity.

There is a 50/50 score on company visits and seminar reports

Students who eschew period aligned and/or non-period aligned evaluations for this course unit may be failed by the examiner.