Annex 2: Module description for the Consecutive Degree Programme in Business & Economics leading to the award of Master of Science

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Specialization module

Module number	261033-311 (version 01)
Module name	Life Cycle Engineering
Module coordinator	Professorship Business Administration III - Management Accounting and Controlling
Content and qualification	Content:
objectives	The module provides an overview of the basic ideas and theoretical foundation of Life Cycle Engineering (LCE) and details related methods and modeling approaches. Individual topics include:
	 Product lifecycle models Approaches to assess the technical, economic and ecological performance of products and product systems Models for multidimensional analysis Technology and material selection Case studies
	Qualification objectives:
	After successful completion of the module, students have developed an understanding of the necessity to include technical, economic and ecological objectives in decisions, specifically in the early stages of the product life cycle. A particular emphasis is also placed on the necessary (evaluation) approaches and models, which students have expanded their knowledge on and can be applied in a case study carried out in small groups.
Teaching methods	The module teaching methods are lecture and case study.
	 Lecture: Life Cycle Engineering (2 teaching units) Case Study: Life Cycle Engineering (1 teaching unit) The classes will be conducted in English.
Requirements for participation (recommended knowledge and skills)	none
participation (recommended	none
participation (recommended knowledge and skills)	Successfully passing the module examination is required for the awarding of credit points.
participation (recommended knowledge and skills) Module application Requirements for the	Successfully passing the module examination is required for the awarding of credit points. The module examination consists of two assessment components. The
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participation (recommended knowledge and skills) Module application Requirements for the award of credit points	Successfully passing the module examination is required for the awarding of credit points. The module examination consists of two assessment components. The student must take the following specific assessment components: 10-minute oral presentation on the case study Life Cycle Engineering (Examination number: 61428) 60-minute written examination on Life Cycle Engineering (Examination number: 61421)
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participation (recommended knowledge and skills) Module application Requirements for the award of credit points Module examination Credits and grades	Successfully passing the module examination is required for the awarding of credit points. The module examination consists of two assessment components. The student must take the following specific assessment components: 10-minute oral presentation on the case study Life Cycle Engineering (Examination number: 61428) 60-minute written examination on Life Cycle Engineering (Examination number: 61421) The assessment components are to be produced in English. This module is worth 5 credit points. Section 10 of the Examination Regulations specifies how the assessment components are assessed and how the module grade is calculated. Assessment components: Oral presentation on the case study Life Cycle Engineering, weighting 3 – pass required Examination on Life Cycle Engineering, weighting 7 – pass required
participation (recommended knowledge and skills) Module application Requirements for the award of credit points Module examination Credits and grades	Successfully passing the module examination is required for the awarding of credit points. The module examination consists of two assessment components. The student must take the following specific assessment components: • 10-minute oral presentation on the case study Life Cycle Engineering (Examination number: 61428) • 60-minute written examination on Life Cycle Engineering (Examination number: 61421) The assessment components are to be produced in English. This module is worth 5 credit points. Section 10 of the Examination Regulations specifies how the assessment components are assessed and how the module grade is calculated. Assessment components: • Oral presentation on the case study Life Cycle Engineering, weighting 3 – pass required • Examination on Life Cycle Engineering, weighting 7 – pass required The module is offered each academic year, normally in the summer semester.
participation (recommended knowledge and skills) Module application Requirements for the award of credit points Module examination Credits and grades	Successfully passing the module examination is required for the awarding of credit points. The module examination consists of two assessment components. The student must take the following specific assessment components: 10-minute oral presentation on the case study Life Cycle Engineering (Examination number: 61428) 60-minute written examination on Life Cycle Engineering (Examination number: 61421) The assessment components are to be produced in English. This module is worth 5 credit points. Section 10 of the Examination Regulations specifies how the assessment components are assessed and how the module grade is calculated. Assessment components: Oral presentation on the case study Life Cycle Engineering, weighting 3 – pass required Examination on Life Cycle Engineering, weighting 7 – pass required