Course: Business Ecosystem Design — credits: 10

Course code	SUVM23BED
Name	Business Ecosystem Design
Study year	2025-2026
ECTS credits	10
Language	English
Coordinator	F. Pierie
Modes of delivery	Teaching method 1
Assessments	Business Ecosystem Design - Assignment

Learning outcomes

After completion of the module, the student is able to:

1. analyse and timely solve a wicked real-life problem as a team member in an international context
2. analyse, select, and use relevant (scientific and grey) literature and empirical data
3. analyse and plan a strategy for the development of integrative sustainable energy systems and value propositions in an existing context
4. Create multiple options for business ecosystems in a sustainable energy context, based on scientific principles and design knowledge
5. Evaluate an optimal business case based on validated criteria
6. Evaluate the impact of the innovation on the overall energy system
7. Create a business plan based on the performed analysis
8. present and defend, performed analysis, results, conclusions, and plans both orally and in academic writing

Content

The Business Ecosystem Design (BED) module (10 EC) is the final module of the SIM specialisation, and builds upon the knowledge and skills of previous modules which paid attention to technology, modelling, innovation, and legal and economic aspects of the energy transition. In this module, business concepts are developed in such a way that several stakeholders collaborate to produce and exploit products and services. Such collaborations are also known as business ecosystems. When developing a business ecosystem a stakeholder analysis is necessary. In this module, an integrative business plan is developed, based on academic research and reflection: It includes adjacent factors in the proposed case, i.e. paying attention to the different PESTEL factors (PESTEL: Policy, Economy, Social, Technology, Ecology, Legal). E.g., it may include non-financial benefits or costs into the case. It is important that every stakeholder’s business is profitable.

Included in programme(s)

European Master in Sustainable Energy System Management

School(s)

Institute of Engineering

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