

## Curriculum at LAB University of Applied Sciences 2025-2026

### Circular Economy Solutions 25S, online studies

Code	Name	1 y	2 y	ECTS total
<b>LLTIYCES25SV-1004 Core competence</b>				<b>35</b>
YY00DF24	Circular Economy for Global Sustainable Transformation	5		5
YY00DF25	Circular Economy Research Methods and Case Studies	5		5
YY00DF26	Sustainable Processes and Product Development	5		5
YL00CV08	Research based development	5		5
YL00CV04	Business analytics for innovation driven decision making	5		5
YL00CV05	Business design	5		5
YM00DF87	Organizational transformation in Sustainability		5	5
<b>LLTIYCES25SV-1002 Complementary competence</b>				<b>25</b>
YL00CV06	INNOHUB	2,5	2,5	5
<b>LLTIYCES25SV-1003 Thesis</b>				<b>30</b>
YO00CF53	Thesis Planning	10		10
YO00CF54	Thesis Project and Reporting		20	20

#### LLTIYCES25SV-1004 Core competence: 35 ECTS

#### YY00DF24 Circular Economy for Global Sustainable Transformation: 5 ECTS

##### Learning outcomes

The student is able to

- understand the key principles of the circular economy and their significance in promoting sustainable development.
- understand and utilise circular economy strategies and roadmaps.
- apply circular economy concepts and strategies across various industrial sectors, identify business opportunities offered by the circular economy, and assess their environmental impacts.
- analyse and design circular economy solutions that support ecological, economic, and social sustainability.

#### YY00DF25 Circular Economy Research Methods and Case Studies: 5 ECTS

##### Learning outcomes

The student is able to

- understand quantitative and qualitative research methods.
- find and utilise scientific publications and research data responsibly, understand the field and practices of open professional and scientific publishing.

- understand research, development and innovation activities, and the roles of various stakeholders as well as examples of regional, national and international projects in circular economy.
- increase abilities in research, development and innovation project preparation skills based on strategic understanding, latest knowledge and innovation insights.

## **YY00DF26 Sustainable Processes and Product Development: 5 ECTS**

### **Learning outcomes**

The student is able to

- understand and apply key sustainability concepts and methods in process and product management.
- assess and develop organisational processes to align with sustainability and circular economy principles.
- optimize resource use to extend lifecycle and maintain value in production, product design, and organisational projects.
- understand and enhance utilisation of renewable energy solutions as a basis of sustainable development activity; wind, solar, geothermal, biofuels, biogas and hydrogen.
- identify the innovation opportunities of sustainable development and the development and business opportunities of intellectual property rights (IPR).

## **YL00CV08 Research based development: 5 ECTS**

### **Learning outcomes**

The student is able to

- plan a workplace-oriented research-based development project.
- use different methods of workplace development.
- use research data in workplace development.

## **YL00CV04 Business analytics for innovation driven decision making: 5 ECTS**

### **Learning outcomes**

The student is able

- to gain an in-depth understanding of financial management, budgeting and investments.
- to consider and evaluate macro economical situations and their impact.
- to apply scenario thinking / identify possibilities of alternative futures / for pre-active / proactive business development, decision making and resilience.
- to identify new possibilities for profitability and disruptive business models.

### **Prerequisites**

It is recommended that the student has a previous university degree. A foundational knowledge of business principles is beneficial.

## **YL00CV05 Business design: 5 ECTS**

### **Learning outcomes**

The student is

- able to create added-value-driven business strategies
- able to facilitate customer's experience as a brand enhancing competitive advantage.

- able to create hybrid product-service concepts in building personalized customer experiences and design value adding business models and processes.
- able to leverage future trends and insight on target groups as a source for new business development.

**Prerequisites**

It is recommended that the student has a previous university degree. Students should have a basic understanding of business concepts. Prior coursework in strategy or marketing is helpful but not required.

**YM00DF87 Organizational transformation in Sustainability: 5 ECTS****Learning outcomes**

Student is able to

- explain the current situation of the Planetary boundaries
- map the critical areas of Planetary boundaries as environmental impact areas in an organization
- explore the relevant rules, regulations, and reporting for sustainability in an organization
- combine the environmental and social impact, the forthcoming sustainability rules and regulations in a plan for key sustainability steps in an organization

**LLTIYCES25SV-1002 Complementary competence: 25 ECTS****YL00CV06 INNOHUB: 5 ECTS****Learning outcomes**

The student is able to

- understand the process of experiential learning (the course is based on implementing projects in practical working life).
- participate in different roles in innovation-driven research and development projects, in different business and non-business contexts in different market areas.
- plan, organize and manage resources to achieve the project's goals.
- evaluate the success criteria and evaluate the internal and external risks related to the project.
- develop competences in solving and understanding the innovation requirements and challenges of businesses and non-businesses in different market contexts.

**LLTIYCES25SV-1003 Thesis: 30 ECTS****YO00CF53 Thesis Planning: 10 ECTS****Learning outcomes**

The student is able to

- describe the objectives and core contents of their thesis.
- plan and describe the stages of the thesis process.
- take into account the possible research permit and copyright issues.

**YO00CF54 Thesis Project and Reporting: 20 ECTS**

### **Learning outcomes**

The student is able to

- implement the thesis on the basis of an approved thesis plan.
- present the results or output of their thesis.
- report on their thesis in writing in accordance with the thesis guidelines of LAB University of Applied Sciences.
- as a maturity test, write a blog post, a press release or an article.