Curriculum at LAB University of Applied Sciences
2025-2026

24.01.2025

Technological Transformation Leadership 25S, online studies

Code	Name	1 y	2 y	ECTS total
TLTIYTTL25SV-1004 Core competence				**15**
YT00DF21	Change Management and Knowledge Management	5		5
YT00DF22	Modern Technologies and Megatrends	5		5
YT00DF23	Process and Project Management	5		5
TLTIYTTL25SV-1002 Complementary competence				**15**
TLTIYTTL25SV-1007 Organizational Transformation & Leadership				**0**
YT00DF18	Emerging Technologies in Innovative Solutions	5		5
YT00DF19	Lean Innovating of Digital Solutions	5		5
YT00DF20	Leading Digital Transformation	5		5
TLTIYTTL25SV-1006 From IoT to AI				**15**
YT00DE59	IoT and Cloud Services	5		5
YT00DE60	Data Analyzis and Visualization	5		5
YT00DE61	Machine Learning and AI	5		5
TLTIYTTL25SV-1003 Thesis				**30**
YO00CF53	Thesis Planning	10		10
YO00CF54	Thesis Project and Reporting		20	20

TLTIYTTL25SV-1004 Core competence: 15 ECTS

YT00DF21 Change Management and Knowledge Management: 5 ECTS

Learning outcomes
The student is able to
- effectively analyze organizational knowledge to drive innovation and improve decision-making
- utilize change management frameworks and models
- develop skills to implement change initiatives, focusing on overcoming resistance and fostering a culture of agility
- implement strategies for effective communication, stakeholder engagement, and addressing resistance to change

YT00DF22 Modern Technologies and Megatrends: 5 ECTS

Learning outcomes
The student is able to
- evaluate the influence of emerging technologies on their specific discipline and the broader society

- analyze key megatrends and their connections to technological development
- apply diverse technologies to address complex practical challenges
- develop informed perspectives on the future technological evolution and its potential implications

YT00DF23 Process and Project Management: 5 ECTS

Learning outcomes
The student is able to
- apply project management methodologies and tools to plan, execute, and control projects effectively
- analyze processes to identify inefficiencies and develop strategies for improvement
- lead and manage project teams, fostering collaboration and motivating team members
- evaluate project performance

TLTIYTTL25SV-1002 Complementary competence: 15 ECTS

TLTIYTTL25SV-1007 Organizational Transformation & Leadership: 0 ECTS

YT00DF18 Emerging Technologies in Innovative Solutions: 5 ECTS

Learning outcomes
The student is able to
- examine the role of emerging technologies in enabling innovation
- consider scalability in the design of technology-enabled innovations
- apply technology-enabled innovations in developing business models for better value creation
- evaluate the potential impacts of emerging technologies on business and society

YT00DF19 Lean Innovating of Digital Solutions: 5 ECTS

Learning outcomes
The student is able to
- innovate solutions to meet business needs guided by strategy
- apply Lean thinking in the development of digital solutions
- evaluate the added value generated by a digital solution

YT00DF20 Leading Digital Transformation: 5 ECTS

Learning outcomes
The student is able to
- analyze the relationship between strategy and digital transformation
- evaluate the impact of digital transformation on people, technology, and business processes
- plan the process of digital transformation
- apply the principles of technological humanism in digital transformation

TLTIYTTL25SV-1006 From IoT to AI: 15 ECTS

YT00DE59 IoT and Cloud Services: 5 ECTS

Learning outcomes
The student is able to
- manage data collection and employ standard protocols for data transfer to a cloud service
- implement a data storage solution leveraging virtualization and cloud-based services
- conduct comparative analysis of data processing, transfer, and storage alternatives within the context of a data pipeline implementation

YT00DE60 Data Analyzis and Visualization: 5 ECTS

Learning outcomes
The student is able to
- apply mathematical methods in analyzing data and predicting phenomena
- utilize modern statistical tools to explore and interpret data
- visualize data to identify its properties, interpret the analysis and facilitate further processing

YT00DE61 Machine Learning and AI: 5 ECTS

Learning outcomes
The student is able to
- apply ethically sustainable solutions of machine learning and artificial intelligence in the engineer's work
- analyze and evaluate the data pipeline, considering the needs of machine learning and artificial intelligence
- design machine learning and artificial intelligence solutions that meet the analyzed requirements
- manage the use of various data sources in the application of machine learning and artificial intelligence

TLTIYTTL25SV-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.