

Curriculum at LAB University of Applied Sciences 2024-2025

Bachelor of Engineering, Wood Technology 24S, Double Degree, Lahti

Code	Name	1 y	ECTS total
TLTIWOODDD24S-1001 Professional Core Competences			28
TLTIWOODDD24S-1002 Engineering studies			23
K200CE69	Finnish 1	3	3
AL00CE39	Logistics and Supply Chain Management	5	5
AT00CT26	Production Management	5	5
AT00BZ14	R&D Project	5	5
AT00BZ12	Plywood and LVL technology	5	5
AT00CU23	Global wood business	5	5
TLTIWOODDD24S-1007 Basic studies in design			5
AM00CN27	Ergonomics and Accessibility	5	5
AM00CV26	Future foresight	5	5
AM00CV20	Introduction to sustainable design methods	5	5
TLTIWOODDD24S-1003 Complementary Competences			7
TLTIWOODDD24S-1004 Virtual Wood University			7
TLTIWOODDD24S-1005 Practical Training			10
HA00CE82	Practical Training	10	10
TLTIWOODDD24S-1006 Thesis			15
AO00CE85	Thesis Planning	5	5
AO00CE86	Thesis Research and Writing	5	5
AO00CE87	Thesis Publication	5	5

TLTIWOODDD24S-1001 Professional Core Competences: 28 ECTS

TLTIWOODDD24S-1002 Engineering studies: 23 ECTS

K200CE69 Finnish 1: 3 ECTS

Learning outcomes

The student is able to

- identify and use the course vocabulary and phrases for common everyday situations
- tell about oneself and understand basic questions
- read and write simple sentences related to the course topics.

Proficiency level: A1

AL00CE39 Logistics and Supply Chain Management: 5 ECTS

Learning outcomes

Student is able to

- use basic concepts of logistics and supply chain management.
- the principles of value chain formation.
- identify the impact of logistics and supply chains on the company's profitability and competitiveness.
- describe the importance of customer orientation and stakeholder cooperation throughout the supply chain.

AT00CT26 Production Management: 5 ECTS

Learning outcomes

The student is able to:

- define key concepts and development methods related to production and production strategy
- development of production strategy and methods
- development of production infrastructure
- development a supply chain strategy

AT00BZ14 R&D Project: 5 ECTS

Learning outcomes

The student is able to:

- make a project plan including time schedule, responsibilities and target setting
- learn customer communication
- search for professional literature to support the project
- report on the project results and analyse them
- make seminar presentation to customer

AT00BZ12 Plywood and LVL technology: 5 ECTS

Learning outcomes

The student is able to:

- describe the manufacturing processes of plywood and LVL board products
- know the main end uses of both board type
- define the technical properties of both board types
- know the further processing possibilities of both board types
- produce plywood in laboratory environment and make standard quality tests

AT00CU23 Global wood business: 5 ECTS

Learning outcomes

Student understands

- the global nature of modern wood products business.
- the combination of local nature of production through raw materials against varying demands in different parts of the globe

- competitive product and service offerings
- logistic options and challenges
- future trends and possibilities for the industry

TLTIWOODDD24S-1007 Basic studies in design: 5 ECTS

AM00CN27 Ergonomics and Accessibility: 5 ECTS

Learning outcomes

The student is able to

- apply the basics of ergonomics in their design work
- apply the principles of accessibility and design-for-all in their design work

AM00CV26 Future foresight: 5 ECTS

Learning outcomes

Students will be able to

- apply the concepts and principles of futures studies in their chosen field
- describe tools and methods of futures studies
- anticipate changes in the operating environment both at the general level and specific to their chosen field- apply foresight methods in research and development

AM00CV20 Introduction to sustainable design methods: 5 ECTS

Learning outcomes

- As a designer recognize the sustainable design methods.
- Has the knowledge the possibilities of implementation of the methods.

TLTIWOODDD24S-1003 Complementary Competences: 7 ECTS

Learning outcomes of the study module

Virtual Wood University course

TLTIWOODDD24S-1004 Virtual Wood University: 7 ECTS

TLTIWOODDD24S-1005 Practical Training: 10 ECTS

HA00CE82 Practical Training: 10 ECTS

Learning outcomes

The student is able to

- describe work-related phenomena and use related concepts
- act in a productive way, following the practices of the workplace and the ethical principles of the profession
- use the techniques, work methods, models and processes that they have learnt
- act in a customer-oriented way in interactive situations in the workplace and in the cooperation network
- evaluate and develop their own competence into the work done in practical training

TLTIWOODDD24S-1006 Thesis: 15 ECTS**AO00CE85 Thesis Planning: 5 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.

AO00CE86 Thesis Research and Writing: 5 ECTS**Learning outcomes**

The student is able to:

- implement the thesis on the basis of an approved thesis plan.

AO00CE87 Thesis Publication: 5 ECTS**Learning outcomes**

The student is able to:

- 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
- write a maturity test.