

Curriculum at LAB University of Applied Sciences 2025-2026

Bachelor of Engineering, Industrial Mechanical Engineering 25S, full-time studies, Lappeenranta

Code	Name	1 y	2 y	3 y	4 y	ECTS total
TLPRMEC25S-1001 CORE COMPETENCE						165
TLPRMEC25S-1002 Professional Competence						90
AT00CZ60	Engineering Curiosity	30				30
AT00CZ61	Engineering Design		30			30
AT00CZ62	Design Thinking			30		30
TLPRMEC25S-1011 Language and Communication Studies for English Students						15
K200CE69	Finnish 1	3				3
K200CE70	Finnish 2	3				3
K200DD57	Finnish for Technology	2				2
KE00CE75	English for Professional Communication	5				5
KE00DD58	Intercultural Competence	2				2
TLPRMEC25S-1012 Language and Communication Studies for Finnish Students						15
KS00DD59	Expert Communication Skills	5				5
KR00DD61	Swedish for Work, Written		2			2
KR00BU42	Swedish for Work, Spoken		1			1
KE00CE75	English for Professional Communication	5				5
KE00DD58	Intercultural Competence		2			2
TLPRMEC25S-1004 Practical Training						30
HA00DH36	Practical Training					0
HA00DH37	Practical Training 2					0
TLPRMEC25S-1005 Thesis						30
AT00CZ66	Thesis					0
TLPRMEC25S-1006 COMPLEMENTARY COMPETENCE						75
TLPRMEC25S-1007 Finnish as a Second Language						16
K200CH62	Finnish 3	3				3
K200CH63	Finnish 4	3				3
K200CL50	Finnish for Work 1		5			5
K200CG35	Finnish for Work 2		5			5
TLPRMEC25S-1008 Exchange Studies						0
TLPRMEC25S-1009 LUT University Studies						0

TLPRMEC25S-1010 Studies IIT / SSE Program

TLPRMEC25S-1001 CORE COMPETENCE: 165 ECTS

TLPRMEC25S-1002 : 90 ECTS

AT00CZ60 Engineering Curiosity: 30 ECTS

Learning outcomes

The student is able to:

- begin own learning path

AT00CZ61 Engineering Design: 30 ECTS

Learning outcomes

The student is able to:

- tackle range of challenges

AT00CZ62 Design Thinking: 30 ECTS

Learning outcomes

The student is able to:

- continue life-learning path

TLPRMEC25S-1011 Language and Communication Studies for English Students: 15 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

K200CE70 Finnish 2: 3 ECTS

Learning outcomes

The student is able to

- communicate in most common everyday situations
- understand slowly and clearly spoken Finnish when the topic and the vocabulary are familiar
- understand and write a simple message or text
- use the basic vocabulary and some grammatical structures of Finnish.

Proficiency level: A1

Prerequisites

Finnish 1 or similar skills

K200DD57 Finnish for Technology: 2 ECTS**Learning outcomes**

The student is able to

- use previously learned structures and words
- use some presentation phrases
- describe some processes in their field in simple terms

Proficiency level: A1

KE00CE75 English for Professional Communication: 5 ECTS**Learning outcomes**

Proficiency level: B2

The student is able to

- identify the characteristics of academic texts and to apply academic conventions to their writing
- demonstrate critical thinking and find, evaluate and use information effectively
- communicate clearly and effectively in different generic and field-specific workplace situations both orally and in writing
- function collaboratively in contemporary working environments in English.

KE00DD58 Intercultural Competence: 2 ECTS**Learning outcomes**

The student is able to

- understand cultural similarities and differences using theoretical frameworks
- has skills and competences to develop their intercultural sensitivity
- understand culture adaptation and adjustment.

TLPRMEC25S-1012 Language and Communication Studies for Finnish Students: 15 ECTS**KS00DD59 Expert Communication Skills: 5 ECTS****Learning outcomes**

The student is able to

- identify and assess their communication skills and give, receive and use feedback to develop their communication skills
- act purposefully, appropriately and skilfully in communication and interaction situations in work life and in his/her professional field (text, presentation and group communication skills)
- take into account the requirements of the recipient/interaction partner, the situation and the field in

which they are communicating

- communicate in a structured, understandable and convincing way
- develop their Finnish language and communication skills as part of their expertise and professional competence (willingness and motivation to continuously learn and develop communication skills).

KR00DD61 Swedish for Work, Written: 2 ECTS

Learning outcomes

The student is able to

- use vital field-specific vocabulary
- communicate essential matters about their education, work experience and tasks
- understand and produce various short texts related to studies and working life
- acquire information on their field in Swedish
- use online dictionaries.

The student completes the Public Administration Language Test in Swedish.

KR00BU42 Swedish for Work, Spoken: 1 ECTS

Learning outcomes

The student is able to

- convey and validate arguments
- use vital field-specific vocabulary
- communicate essential matters about their education, work experience and tasks
- present their field-specific operational environment
- communicate in various working life situations in Swedish.

The student completes the Public Administration Language Test in Swedish.

KE00CE75 English for Professional Communication: 5 ECTS

Learning outcomes

Proficiency level: B2

The student is able to

- identify the characteristics of academic texts and to apply academic conventions to their writing
- demonstrate critical thinking and find, evaluate and use information effectively
- communicate clearly and effectively in different generic and field-specific workplace situations both orally and in writing
- function collaboratively in contemporary working environments in English.

KE00DD58 Intercultural Competence: 2 ECTS

Learning outcomes

The student is able to

- understand cultural similarities and differences using theoretical frameworks
- has skills and competences to develop their intercultural sensitivity
- understand culture adaptation and adjustment.

TLPRMEC25S-1004 Practical Training: 30 ECTS**HA00DH36 Practical Training: 15 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 in the work done in practical training

HA00DH37 Practical Training 2: 15 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 in the work done in practical training

TLPRMEC25S-1005 Thesis: 30 ECTS**AT00CZ66 Thesis: 30 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
- 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
- write a maturity test.

TLPRMEC25S-1006 COMPLEMENTARY COMPETENCE: 75 ECTS**TLPRMEC25S-1007 Finnish as a Second Language: 16 ECTS**

K200CH62 Finnish 3: 3 ECTS

Learning outcomes

The student is able to

- tell about their own housing and neighbourhood.
- understand and write simple messages and announcements related to housing.
- understand and speak words and expressions related to weather.
- ask questions in simple shopping and other situations (e.g., clothing and furniture stores and bus and railway stations).
- read short advertisements, announcements and other texts related to travelling (e.g., timetables).

Proficiency level: A1

K200CH63 Finnish 4: 3 ECTS

Learning outcomes

The student is able to

- ask about the health and describe their own health.
- describe places, things and people.
- understand and write short messages about everyday life (e.g., invitations, requests, messages of absence).
- understand short messages and advertisements related to celebrations and events.
- tell about matters and events using the most common verbs in the past tense.

Proficiency level: A1

Prerequisites

Courses Finnish 1 - 3 or equivalent skills

K200CL50 Finnish for Work 1: 5 ECTS

Learning outcomes

Proficiency level A2

The student

- is familiar with the main stages of the job search process in Finland
- is able to tell about his/her skills
- understands short texts related to job search
- is able to communicate in situations related to job search.

K200CG35 Finnish for Work 2: 5 ECTS

Learning outcomes

Proficiency level A2

Student

- knows the main features of the Finnish working culture
- understands simple texts and instructions related to induction, workplace rules and safety at work
- can describe the working environment
- can communicate in informal situations in the workplace

TLPRMEC25S-1008 Exchange Studies: 0 ECTS

TLPRMEC25S-1009 LUT University Studies: 0 ECTS

TLPRMEC25S-1010 Studies IIT / SSE Program: 0 ECTS