

**SYLLABUS**

**STUDY YEAR 2024/2025**

# **Master Programme in Wood Technology**

## **Enrollment semester Spring 2025**

DATE

**2024-04-23**

REFERENCE NO.

**LTU-817-2024**

DECISION MAKER

**Ordförande tekniska fakultetsnämnden**

## Programme content and structure

For a Master's degree with a major in Wood Technology a total of 120 credits in accordance to curriculum of the programme are required. A minimum of 90 credits at advanced level including a thesis of 30 credits in the subject of Wood Technology is required.

Semester 1 includes compulsory courses totaling 30 credits (undergraduate level) providing the necessary basic knowledge of wood as a material and its manufacturing processes, anatomy, material properties and manufacturing processes.

Semester 2 and 3: Includes a total of 60 credits (advanced level):

- 15 credits compulsory courses
- 15 credits specialization, individual elective, within the field Wood Technology
- 30 credits project-based courses related to research or design oriented projects within the subject Wood Technology.

The student makes an individual choice of which area of research within the subject of Wood Technology to specialize in. The specialization shall be a continuation of the basic courses given the first semester including the specialization course and the project course given the same semester. Exceptions can be made after approval of the program coordinator.

The project course will give students practical skills in planning and implementation of research and development projects, conducted with a scientific approach. Shall as well provide a deepened understanding of the theoretical foundations in the research and its methods.

Semester 4: Master Thesis, 30 credits, in Wood Technology. The mandatory courses must be completed prior to the start of the master's thesis. Specific information about that application and selection for master's thesis is controlled by the coordinator department.

Swedish for beginners is offered for overseas students. The course is not included in the degree, and is read in addition to the obligatory courses.

## Credits

120 credits

## Degree

- Degree of Master of Science (120 credits) - Major; Wood Technology

## Entry requirements

Academic degree minimum of 180 ECTS, (Bachelor or Bachelor of engineering) with a natural science or technical profile of at least 60 credits. At least 15 ECTS in Mathematics at university level is required.

Good knowledge in English, equivalent to English 6

## Selection

The selection procedure is based on academic qualifications, quality and quantity aspects

### Selection group

Academic: 100%

## Compulsory courses

### Compulsory courses in Wood Technology 60 credits

Course code	Course	Cr	Level	Comment
W0009T	Wood manufacturing, process and material optimization	15	Bachelor's level	
W0010T	Wood material science, anatomy and mechanical characteristics	15	Bachelor's level	
W7001T	Wood Technology Project 1	15	Master's level	
W7008T	Design of Timber Structures	7.5	Master's level	
W7009T	Processes for Wood Construction Components	7.5	Master's level	

### Course offered outside the obligatory courses - not compulsory - For non Scandinavian students

Course code	Course	Cr	Level	Comment
S0046P	Swedish for International Students 1	3	Bachelor's level	Selectable

### Courses for LTU-students semester 3-4 60 credits

Course code	Course	Cr	Level	Comment
W7001M	Applied Multivariate Data Analysis	7.5	Master's level	
W7003T	Wood Technology Project 2	15	Master's level	
W7006T	Degree project in Wood Technology, Master	30	Master's level	
W7007T	Process efficiency and improvement, wood technology	7.5	Master's level	

Or

### CCourses for outgoing student 0-60 credits, semester 3-4 60 credits

Course code	Course	Cr	Level	Comment
	W7006T Degree project in Wood Technology, Master	30		
	Courses offered in master programme Wood Science and Technology at the university of Ljubljana	30		

**Or****Courses for incoming students 0-60 credits, semester 3-4 60 credits**

Course code	Course	Cr	Level	Comment
	W7003T Wood Technology Project 2	15		
	W7007T Process efficiency and improvement, wood technology	7.5		
	W7006T Degree project in Wood Technology, Master	30		
	W7001M Applied Multivariate Data Analysis	7.5		

## Study schedule

### Termin 1 Enrollment semester Spring 2025, Is offered in 2024/2025

Study-period	Course code	Course	Cr	Comment
3-4	W0009T	Wood manufacturing, process and material optimization	15	
3-4	W0010T	Wood material science, anatomy and mechanical characteristics	15	

### Termin 2 - 3 Enrollment semester Spring 2025, Is offered in 2025/2026, planned study schedule

Study-period	Course code	Course	Cr	Comment
1	S0046P	Swedish for International Students 1	3	Selectable
1	W7009T	Processes for Wood Construction Components	7.5	
1-2	W7001T	Wood Technology Project 1	15	
3	W7008T	Design of Timber Structures	7.5	
3-4	W7003T	Wood Technology Project 2	15	
4	W7007T	Process efficiency and improvement, wood technology	7.5	

### Termin 4 Enrollment semester Spring 2025, Is offered in 2026/2027, planned study schedule

Study-period	Course code	Course	Cr	Comment
1-2	W7006T	Degree project in Wood Technology, Master	30	Entry requirements