

Wood innovation for sustainability undergraduate study programme, first Bologna cycle

COURSE STRUCTURE of the study programme

The study programme consists of 19 compulsory courses, 3 elective courses, practical training, a mobility window, and a final seminar within which the student prepares and presents a seminar paper.

Courses are divided into compulsory and elective courses, internal and external electives. In the second and third year, students select a total of three internal or external elective courses. All study requirements are evaluated using credit points under the European Credit Transfer and Accumulation System (ECTS).

The following section presents the structure of the study programme by year, the curriculum for each year, and the internal elective courses of the programme.

To complete the programme, a minimum of 180 ECTS must be obtained. This includes all academic requirements within individual courses of the study programme (assignments, seminars, examinations, practical training, and the mobility window), as well as the preparation and defence of the final seminar paper, which the student defends as part of the seminar.

The following section presents the structure of the study programme by year and the compulsory courses of the programme.

Table 1: Structure of the study programme

Year of study	Study obligation	Number	ECTS-credits (ECTS)	
			ECTS	ECTS/ Year of study
1.	Compulsory course	10	60	60
2.	Compulsory course	7	36	60
	Elective course	2	12	
	Practical training in working environments I	1	12	
3.	Compulsory course	2	12	60
	Elective course	1	6	
	Practical training in working environments II	1	10	
	Mobility window	1	24	
	Seminar	1	6	

Legend:

ECTS credits (ECTS) = credit points awarded under the European Credit Transfer and Accumulation System (ECTS). The credit system facilitates student mobility and the mutual recognition of completed academic requirements.

ECTS credits represent an average estimate of the time required to complete a course and include both organized forms of instruction (lectures, seminars, seminar and laboratory exercises, fieldwork, practical training, etc.) and the student's independent work (exam preparation and other course-related obligations, etc.). One (1) ECTS credit corresponds to 25 to 30 hours of study workload. Credits are awarded upon the successful completion of the requirements for an individual course.

Table 2: First year of study

No.	Course	ECTS
1.	English in Wood Science	6
2.	Mathematical Methods	6
3.	Chemistry Basics	6
4.	Physical and Mechanical Properties of Wood Practicum	6
5.	Computer Practicum	6
6.	Statistical Methods	6
7.	Introduction to experimental methods and data analysis	6
8.	Digital Prototyping in Wood Products Design	6
9.	Fundamentals of Engineering Mechanics	6
10.	Engineered Wood Products	6

Table 3: Second year of study

No.	Course	ECTS
1.	Data Analytics	6
2.	Advanced Manufacturing	6
3.	Timber Building Systems	6
4.	Performance Modelling of Wood Products	6
5.	Ergonomics in Wood Furniture Design	3
6.	Wood Modification Technologies	6
7.	Artificial Intelligence and Machine Learning	3
8.	Practical Training in Working Environments I (8,5 weeks)	12
9.	Internal/ External elective course I	6
10.	Internal/ External elective course II	6

Table 4: Third year of study

No.	Course	ECTS
1.	Buildings Design driven by New European Bauhaus	6
2.	Sustainability Assessments	6
3.	Practical Training in Working Environments II (8,5 weeks)	12
4.	Internal/ External elective course III	6
5.	Mobility Window	24
6.	Final Seminar *	6

Note: * The Final Seminar will be online.

ELECTIVE courses

Within the framework of internal electives in the second and third year, students complete a total of three elective courses (each worth 6 ECTS) in the field of business and economic skills:

- 2nd year: Business Communication (6 ECTS),
- 2nd year: Project Management (6 ECTS),
- 3rd year: Fundamentals of Entrepreneurship and Marketing (6 ECTS).

Instead of these courses, students may complete an external elective course in the fields of communication, project management, or entrepreneurship and marketing within accredited study programmes at related higher education institutions in Slovenia or abroad.

For assistance and guidance in selecting elective courses, students may consult the study programme coordinator.

Mobility window

In the third year, within the framework of the mobility window (24 ECTS), students complete selected academic requirements abroad.

Students have the following possibilities:

- choose to complete courses at Saarland University in Germany or Oregon State University in the USA,
- choose to complete courses (student mobility for the purpose of study) based on a signed learning agreement at a partner university. The partner university and the University of Primorska must have a signed agreement for the Erasmus+ mobility,
- choose practical training at one of the 10 foreign institutions (Holzforschung Austria; BOKU University, Institute of Wood Technology and Renewable Materials, Austria; HS Timber Group, Austria; IBO - Austrian Institute for Building and Ecology, Austria; European Panel Federation, Belgium; Bauhaus der Erde gGmbH (Bauhaus Earth), Germany; Raimund Beck Nageltechnik GmbH, Austria; Kompetenzzentrum Holz GmbH (Wood KPLUS), Austria; RothoBlass SRL, Italy; Fraunhofer – Institute for Wood Research, Germany) who work in the field of wood use and sustainable construction.

The number of available places in each institution is limited.

Practical training

In the second and third year, students are required to complete mandatory practical training in a work environment (continuous practical training), which carries a total of 24 ECTS, as follows:

- in the second year, the training lasts 8.5 weeks (340 hours) and is awarded 12 ECTS credits;
- in the third year, the training lasts 8.5 weeks (340 hours) and is awarded 12 ECTS credits.

The purpose of practical training is to reinforce theoretical knowledge in a real work environment and to acquire specialized professional competencies directly related to the workplace where the student completes the training. It also aims to provide direct exposure to current practical situations, encourage an active approach to work tasks, and enable direct contact with potential future employers.

Practical training is carried out in a professional environment, specifically in organizations within the wood sector.

Students first select an organization in which they wish to complete their practical training and initiate the procedure for concluding an agreement. For assistance in selecting an organization, students may consult the practical training coordinator.

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