

Undergraduate  
study programme



## WOOD INNOVATION FOR SUSTAINABILITY

### WHY Wood Innovation for Sustainability?

The study programme aligns with **current trends** in the **wood-processing industry** and prioritises interdisciplinarity, digital skills, communication, and sustainability. Its goal is to prepare experts who can **integrate knowledge, design and implement competitive solutions**, and use wood products responsibly. Graduates will understand wood properties, enabling them to identify challenges, **develop innovative solutions**, and support sustainable development. They will gain competencies in work organisation, technology selection, consulting, and responsible wood use in relation to society and the environment. Throughout the programme, students build **essential skills for modern wood engineering**, including creativity, critical thinking, problem-solving, collaboration, and communication.



Modern  
equipment



Research and  
field work



Internship at  
companies and  
institutes



International  
exchanges



Extensive  
extracurricular  
activities

### General information

**Duration:** 3 years

**Mode of study:** full-time

**Language of study:** Slovenian and English

**Degree awarded:** Bachelor of Wood Science and Technology

**Location:** Izola, Koper (partly)

**Admission requirements:** completed vocational or general matura  
(For more information on the requirements, please visit [www.famnit.upr.en](http://www.famnit.upr.en))

### Benefits of the study at UP FAMNIT?

- The study programme incorporates **new developments in the wood-processing industry**.
- The teaching and learning process is based on **flexible learning approaches** (e.g., experiential, problem-based, and research-based learning, case studies, etc.) and on students' direct practical experience both in Slovenia and abroad.
- **Twelve foreign universities** and companies from Austria, Belgium, Italy, Germany, and the United States will collaborate to implement the mobility window.

# My career opportunities?

- As a professional and technical associate in the wood-processing industry and construction industry, wooden structures and building construction
- As a technical associate in the research and development activities of companies or research institutions
- As an independent entrepreneur, manufacturer, or consultant
- As a professional and technical associate in administrative institutions (ministries, inspection services, various agencies, municipal administrations)

## About the programme



*With the programme "Wood Innovation for Sustainability" we are shaping the future, led by experts in the field of sustainable materials. The programme offers more than just a degree; it opens doors to innovation, international collaboration, and knowledge that are crucial for the green transition.*

- Andreja Kutnar -



Uroš Hočevar / Kolektiv



## Course structure

### 1st year

English in Wood Science  
Mathematical Methods  
General Chemistry  
Physical and Mechanical Properties of Wood Practicum  
Computer Practicum  
Statistical Methods  
Introduction to Experimental Methods and Data Analysis  
Digital Prototyping in Wood Products Design  
Fundamentals of Engineering Mechanics  
Engineered Wood Products

### 2nd year

Data Analytics  
Advanced Manufacturing  
Timber Building Systems  
Performance Modelling of Wood Products  
Practical Training in Working Environments I  
Ergonomics in Wood Furniture Design  
Wood Modification Technologies  
Artificial Intelligence and Machine Learning  
Elective courses:  
Business Communications,  
Project Management

### 3rd year

Practical Training in Working Environments II  
Buildings Design driven by New European Bauhaus  
Sustainability Assessments  
Final Seminar  
Elective course: Basics of Entrepreneurship and Marketing  
Mobility Window

