

Undergraduate study programme



NEW

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
institutions



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)

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 -



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

