

The list of available courses for Erasmus students in the study year 2025/2026 from the field of Textiles

Master study programme *Textile and Clothing Planning*

Autumn semester 2025/2026

- Dyeing 4a/Barvanje 4a (4 ECTS)
- Printing 4a/Tiskanje 4a (4 ECTS)
- Sustainable development of textiles/Trajnosti razvoj tekstilstva (6 ECTS)
- High performance fibres/Visokozmogljiva vlakna (6 ECTS)
- Biotechnology for textile processing/Biotehnologija v tekstilstvu (4 ECTS)
- Textiles for protection/Tekstilije za zaščito (4 ECTS)
- Technical Textiles/Tehnične tekstilije (6 ECTS)

Spring semester 2025/2026

- Dyeing 4b/Barvanje 4b (4 ECTS)
- Printing 4b/Tiskanje 4b (4 ECTS)
- Technical Textiles/Tehnične tekstilije (6 ECTS)
- Quality Engineering/Inženiring kakovosti (4 ECTS)
- Mechanical functionalization of textiles/Mehanska funkcionalizacija tekstilij (6 ECTS)
- Finishes 4b/Apreture 4b (4 ECTS)

Important notes:

Only one course can be chosen from other chairs of the Department of Textiles, Graphic Arts and Design, other departments of the Faculty of Natural Sciences and Engineering, or other faculties of the University of Ljubljana. The chosen course must be approved by the department coordinator (if the chosen course is from another chair or department) or the faculty coordinator (if the chosen course is from another faculty).

Autumn semester 2025/2026

Course	Description of course	Hours				ECTS	Lecturer
		L	S	P	A		
Dyeing 4a	At realization of individual project work, he/she uses already known dyeing technologies, which he/she modifies them or chooses new technologies which enable ecologically acceptable dyeing processes. The choice of dyes has to satisfy conditions that are requested to obtain appropriate colour fastness properties of designed textile product.	0	30	30	0	4	Asoc Prof Dr Marija Gorjanc marija.gorjanc@ntf.uni-lj.si
Printing 4a	The main focus is on the individual work, integration of previously gathered knowledge and development of new skills. Printing of special fibres and their mixtures, special printing processes, combining of different techniques and processes of printing.	0	30	30	0	4	Prof Dr Petra Forte Tavčer petra.forte@ntf.uni-lj.si
Sustainable development of textiles	Students learn about the impact of the textile industry on the environment, on more environmentally friendly textile materials, processes and products, the importance of eco-labels, legislation and environmental protection standards, and systems and tools for the transition to a sustainable economy.	30	30	0	30	6	Prof Dr Petra Forte Tavčer petra.forte@ntf.uni-lj.si

Curriculum tags: L – lectures, S – seminars, P – practice, A – advanced work (project work)

ECTS – credit points by the European credit system (1 credit point means 30 hours of student obligation)

Course	Description of course	Hours				ECTS	Lecturer
		L	S	P	A		
High performance fibres	Structure, design and development of high-performance fibres; methods and systems of designing high-performance fibres: carbon, ceramic and nano fibres; fibres for extremely demanding technologies; fibres with special sensory properties; properties of high-performance fibres and their uses.	60	15	15	0	6	Assoc Prof Dr Tatjana Rijavec tatjana.rijavec@ntf.uni-lj.si
Biotechnology for textile processing	Biotechnological procedures in textile finishing; enzymes in the care of textiles; enzymes in waste-water treatment; decomposition of colours in a substrate, in rinsing baths and in wastewater; biotechnology in the development of new fibres; possibilities and credits of genetic modification in natural fibre production.	30	30	0	0	4	Prof Dr Petra Eva Forte Tavčer petra.forte@ntf.uni-lj.si
Textiles for Protection	Students acquire knowledge in the planning and implementing processes for the production of protective textiles. Master's students deepen their understanding of textile finishing, building on the foundations they acquired during their undergraduate studies. This gives them a comprehensive overview of the manufacturing processes for protective textiles and their functional properties.	0	30	30	0	4	Prof. Dr. Barbara Simončič barbara.simoncic@ntf.uni-lj.si Assoc. Prof. Dr. Brigita Tomšič, brigita.tomsic@ntf.uni-lj.si

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Course	Description of course	Hours				ECTS	Lecturer
		L	S	P	A		
Technical Textiles	Systematic classification of technical textiles and their characteristic properties; fibres for technical textiles; choice of raw materials and constructions, production technologies, finishing agents and processes, special testing methods, specifications and standards.	30	30	30	0	6	Assist Prof Dr Dunja Šajn Gorjanc dunja.sajn@ntf.uni-lj.si

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Spring semester 2025/2026

Course	Description of course	Hours				ECTS	Lecturer
		L	S	P	A		
Dyeing 4b	At realization of individual project work, he/she uses already known dyeing technologies, which he/she modifies them or chooses new technologies which enable ecologically acceptable dyeing processes. The choice of dyes has to satisfy conditions that are requested to obtain appropriate colour fastness properties of designed textile product.	0	30	30	0	4	Assist Prof Dr Mateja Kert mateja.kert@ntf.uni-lj.si
Printing 4b	The main focus is on the individual work, integration of previously gathered knowledge and development of new skills. Printing of special fibres and their mixtures, special printing processes, combining of different techniques and processes of printing.	0	30	30	0	4	Prof Dr Petra Forte Tavčer petra.forte@ntf.uni-lj.si
Technical Textiles	Systematic classification of technical textiles and their characteristic properties; fibres for technical textiles; choice of raw materials and constructions, production technologies, finishing agents and processes, special testing methods, specifications and standards.	30	30	30	0	6	Assist Prof Dr Dunja Šajn Gorjanc dunja.sajn@ntf.uni-lj.si

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Course	Description of course	Hours				ECTS	Lecturer
		L	S	P	A		
Quality Engineering	In-depth study of approaches to quality management; importance of quality management from aspect of global competition; development of quality management systems; basic functions of quality management; methods and techniques in area of quality management; economics of quality; standardisation of quality systems; comprehensive quality management.	30	30	0	0	4	Prof Dr Andrej Demšar andrej.demsar@ntf.uni-lj.si
Mechanical functionalisation of Textiles	Structure and properties of single, twisted and effective yarns, woven and knitted fabrics, knitwear and non-wovens; processes in the production of single, twisted and effective yarns, woven and knitted fabrics, knitwear and non-woven textiles; planning woven and knitted fabrics, planning knitwear.	30	30	30	0	6	Assist Prof Dr Dunja Šajn Gorjanc Prof Dr Matejka Bizjak Assist Prof Dr Živa Zupin dunja.sajn@ntf.uni-lj.si mateja.bizjak@ntf.uni-lj.si ziva.zupin@ntf.uni-lj.si
Finishes 4b	Understanding the mechanism of action of finishing agents; individual creation of multifunctional finish according to the project work, determination of the optimal concentrations and application method of the finishing agents for achieving synergistic multifunctional properties and washing durability.	30	0	30	0	4	Assoc Prof Dr Brigita Tomšič brigita.tomsic@ntf.uni-lj.si

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