

The list of available courses for Erasmus students in the study year 2024/2025 from the field of Textiles

Master study programme *Textile and Clothing Planning*

Autumn semester 2023/2024

- Dyeing 4a/Barvanje 4a (4 ECTS)
- Printing 4a/Tiskanje 4a (4 ECTS)
- Medical Textiles/Medicinske tekstilije (4 ECTS)
- Technical Textiles/Tehnične tekstilije (4 ECTS)
- Ecology in textile processes 2/Ekologija v tekstilstvu 2 (6 ECTS)
- High performance fibres/Visokozmogljiva vlakna (6 ECTS)
- Biotechnology for textile processing/Biotehnologija v tekstilstvu (4 ECTS)

Spring semester 2023/2024

- Dyeing 4b/Barvanje 4b (4 ECTS)
- Printing 4b/Tiskanje 4b (4 ECTS)
- Medical Textiles/Medicinske tekstilije (4 ECTS)
- Technical Textiles/Tehnične tekstilije (4 ECTS)
- Quality Engineering/Inženiring kakovosti (4 ECTS)
- Mechanical functionalization of textiles/Mehanska funkcionalizacija tekstilij (6 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 2024/2025

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
Medical Textiles	Special fibres and polymers; materials for application in medicine and production processes; classification of medical textiles by their intended use; anti-microbial fibre and finishing; textiles as carriers of pharmacological substances; care and maintenance; standards and regulations for testing and handling medical textiles.	30	30	0	0	4	Asoc Prof Dr Brigita Tomšič brigita.tomsic@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		
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	0	30	0	4	Assist Prof Dr Dunja Šajn Gorjanc dunja.sajn@ntf.uni-lj.si
Ecology in Textile Processes 2	Textile industry and pollution of the environment; environmental protection in connection with company management, marketing, innovation and development of products, services and technologies; environmental management systems; environmental conservation laws.	30	30	30	0	6	Prof Dr Petra Forte Tavčer petra.forte@ntf.uni-lj.si
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
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Spring semester 2024/2025

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	Assoc Prof Dr Marija Gorjanc marija.gorjanc@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
Medical Textiles	Special fibres and polymers; materials for application in medicine and production processes; classification of medical textiles by their intended use; anti-microbial fibre and finishing; textiles as carriers of pharmacological substances; care and maintenance; standards and regulations for testing and handling medical textiles.	30	30	0	0	4	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	0	30	0	4	Assist Prof Dr Dunja Šajn Gorjanc dunja.sajn@ntf.uni-lj.si
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 Prof Dr Alenka Pavko Čuden dunja.sajn@ntf.uni-lj.si mateja.bizjak@ntf.uni-lj.si alenka.cuden@ntf.uni-lj.si

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