**TEXTILE STUDY PROGRAMMES**

1. **Undergraduate higher education professional study programme *TEXTILE AND CLOTHING PRODUCTION***

**Autumn semester 2014/2015**

* Aesthetics of textiles and clothing/Estetika tekstilij in oblačil (4 ECTS)
* English for Specific Purposes/Strokovna angleščina (4 ECTS)
* Non-wovens and composites/Netkane tekstilije in kompoziti (6 ECTS)
* Basic methods of textile testing /Temeljne preiskave tekstilij (6 ECTS)
* Colour measurement in textiles/Barvna metrika v tekstilstvu (4 ECTS)
* Dyeing/Barvanje(6 ECTS)

**Summer semester 2014/2015**

* Yarns/Preje (6 ECTS)
* Bleaching and finishing/Beljenje in apretura(6 ECTS)
* Planning textiles and comfortableness of clothing/Načrtovanje tekstilij in udobnost oblačil (6 ECTS)
* Apparel manufacturing/Konfekcija (4 ECTS)
* Textile printing/Tekstilni tisk (6 ECTS)
* Knitted structures/ Kompozicija pletiv in pletenin (4 ECTS)
* Introduction to fashion design/Uvod v oblikovanje oblačil (6 ECTS)
* Basics of 3D modelling /Osnove 3D modeliranja(6 ECTS)
* Ergonomics and normalisation/Ergonomija in normiranje (4 ECTS)
* Production planning and management/Načrtovanje in vodenje proizvodnje (6 ECTS)
* Production information systems/Proizvodni informacijski sistemi (4 ECTS)

**Autumn semester 2014/2015**

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| **Course** | **Description of the course** | **Hours** | | | | | **ECTS** | **Lecturer** |
| **L** | **S** | **LP** | **O** | **Ʃ** |
| Aesthetics of textiles and clothing | Origin, function and the meaning of clothing; the psychology and sociology of fashion; the history of clothes and textiles; fashion designers; specific areas of clothing; fashion accessories; graphic design in advertising and fashion. | 30 | 30 | 0 | 0 | 60 | 4 | Karin Košak  karin.kosak@ntf.uni-lj.si |
| English for Specific Purposes | Upgrading general knowledge of English to a higher professional level; reading strategies and discourse of professional texts; determining key words and writing abstracts, articles and reports; description of graphs; business communication; taking part in discussions. | 0 | 60 | 0 | 0 | 60 | 4 | Barbara Peskar  barbara.peskar@ntf.uni-lj.si |
| Non-wovens and composites | Definition and types of non-woven textiles; historical development and trends in non-woven textiles; classification of non-woven textiles; non-woven textile production processes; processing non-woven textiles. | 30 | 30 | 30 | 0 | 90 | 6 | Dunja Šajn Gorjanc  dunja.sajn@ntf.uni-ljs.i |
| Basic methods of textile testing | The importance and use of textile testing; standards and their uses; sampling and evaluation of measurements; basic methods of fibre testing; basic methods of yarn testing; basic methods of fabric testing. | 0 | 45 | 30 | 15 | 90 | 6 | Andrej Demšar  andrej.demsar@ntf.uni-lj.si |
| Colour measurement in textiles | Electromagnetic radiation and light; absorption of light; fluorescence, phosphorescence; factors influencing colour perception; CIE standard system of colour definition; instruments for colour measurement; equations for colour difference evaluation; assessment of whiteness; standards regarding colour measurement of textile materials. | 30 | 15 | 15 | 0 | 60 | 4 | Sabina Bračko  Sabina.bracko@ntf.uni-lj.si |
| Dyeing | Technological water preparation; preparing of dyes; dyeing procedures; dyeing of natural, chemical and synthetic fibres; auxiliaries and methods for after-treatment of dyed material; colour fastness. | 45 | 0 | 4 | 0 | 90 | 6 | Mateja Kert  mateja.kert@ntf.uni-lj.si |

L = lectures, S = seminar work, LP = laboratory practice, O = other

**Summer semester 2014/2015**

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| **Course** | **Description of the course** | **Hours** | | | | | **ECTS** | **Lecturer** |
| **L** | **S** | **LP** | **O** | **Ʃ** |
| Yarns | Spinning properties of yarns; types and properties of yarns; technological processes of producing yarn; planning and coordination of the spinning process; significance and effect of technological stages on the properties, productivity and price of spinning yarn. | 30 | 30 | 30 | 0 | 90 | 6 | Dunja Šajn Gorjanc  dunja.sajn@ntf.uni-lj.si |
| Bleaching and finishing | Pre-treatment; modern pre-treatment processes; processes of chemical finishing; processes of mechanical finishing; mechanical equipment; chemical agents; influence on the environment and people; analysis of the quality of processes. | 60 | 15 | 15 | 0 | 90 | 6 | Petra Forte, Barbara Simončič  petra.forte@nt.uni-lj.si  barbara.simoncic@ntf.uni-lj.si |
| Planning textiles and comfortableness of clothing | Classification of clothing textiles, trimmings, functional properties of textiles, technological process of producing textiles – from fibre to finished fabric; analysis and evaluation of the comfort of clothing textiles: thermo-physiological, handle, movement and aesthetic comforts. | 60 | 30 | 0 | 0 | 90 | 6 | Tatjana Rijavec  tatjana.rijavec@ntf.uni-lj.si |
| Apparel manufacturing | ISO standards for apparel manufacturing; development of a product; preparing collections; preparing production; organisation of production; technological documentation; technological demands of ready-made wear; quality requirements; automation; production management. | 30 | 0 | 30 | 0 | 60 | 4 | Mateja Bizjak  mateja.bizjak@ntf.uni-lj.si |
| Textile printing | Historical development; mechanical devices and equipment; procedures for producing printing plates; procedures of pattern reproduction; preparing fabrics; dyes; printing pastes; fixing and subsequent processing; special printing procedures; environmental issues in printing. | 30 | 30 | 30 | 0 | 90 | 6 | Petra Forte  petra.forte@ntf.uni-lj.si |

L = lectures, S = seminar work, LP = laboratory practice, O = other

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| **Course** | **Description of the course** | **Hours** | | | | | **ECTS** | **Lecturer** |
| **L** | **S** | **LP** | **O** | **Ʃ** |
| Knitted structures | Principles and methods of schematic presentation of knits; economics of patterning knitted fabrics and knitwear; CAD systems in knitting; preparing technological documentation of a knitted structure; multicoloured and structured knits. | 15 | 0 | 45 | 0 | 60 | 4 | Alenka Pavko Čuden  alenka.cuden@ntf.uni-lj.si |
| Introduction to fashion design | Fashion ranges; haute couture; generally designed collections at a lower price range; development of fashion trends; selection of collections; specific design; process of fashion design; the designer’s role in the development of new collections. | 30 | 30 | 30 | 0 | 90 | 6 | Almira Sadar  almira.sadar@ntf.uni-lj.si |
| Basics of 3D modelling | Presentation of the role of 3D computer graphic in media technology and graphic communications; studying of theoretical basis and practical use of basic modelling techniques from polygons to splines and advanced 3D modelling, textures and materials, texture mapping, local and global virtual illumination systems, camera and scene setting, rendering techniques and optimisation of 3D model for computer generated animation. | 30 | 15 | 30 | 15 | 90 | 6 | Helena Gabrijelčič Tomc  helena.gabrijelcic@ntf.uni-lj.si |
| Ergonomics and normalisation | Working systems, work and work efficiency; types of work and the effects of the environment on the worker’s workload; shaping work; the six stage method; analysis of the condition of a working system; norm and time determination method; standstills and losses at work. | 30 | 15 | 15 | 0 | 60 | 4 | Urša Stankovič Elesini  ursa.stankovic@ntf.uni-lj.si |
| Production planning and management | Organisation and management of production; Standardisation of the technological process; production activities; business functions; organisation of the production function; preparing work; humanisation of work; support activities; economising with the means of work; leading and communicating competences. | 0 | 60 | 0 | 30 | 90 | 6 | Andrej Demšar  andrej.demsar@ntf.uni-lj.si |
| Production information systems | Introducing information systems (IS) and information culture; information transformation in a company; the role of IS in a company; strategic planning of IS; security and protection of IS; people and IS; ethics of IS. | 30 | 15 | 15 | 0 | 60 | 4 | Raša Urbas  rasa.urbas@ntf.uni-lj.si |

1. **Undergraduate university study programme *TEXTILE AND CLOTHING PLANNING***

**Autumn semester 2014/2015**

* Fibres/Vlakna (6 ECTS)
* Planning non-wovens and composites/Načrtovanje vlaknovin in kompozitov (4 ECTS)
* Testing of textile/Preiskave tekstilij (6 ECTS)
* English for Specific Purposes /Strokovna angleščina (4 ECTS)
* Planning dyeing processes/Načrtovanje barvalnih postopkov (6 ECTS)
* Planning finishing processes/Načrtovanje apreturnih postopkov (6 ECTS)
* Planning printing processes /Načrtovanje tiskarskih postopkov (6 ECTS)
* Colour measurements in textiles/Barvna metrika v tekstilstvu (4 ECTS)

**Summer semester 2014/2015**

* Fibres/Vlakna (6 ECTS)
* Planning yarns/Načrtovanje prej (6 ECTS)
* Knitted structures/ Kompozicija pletiv in pletenin (4 ECTS)
* Planning apparel/Načrtovanje konfekcije (6 ECTS)
* Basics of 3D modeling /Osnove 3D modeliranja (6ECTS)
* Production management/Upravljanje proizvodnje (4 ECTS)
* Business information applications/Poslovne informacijske aplikacije (6 ECTS)
* Entrepreneurship/Podjetništvo (4 ECTS)

**Autumn semester 2014/2015**

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| **Course** | **Description of the course** | **Hours** | | | | | **ECTS** | **Lecturer** |
| **L** | **S** | **LP** | **O** | **Ʃ** |
| Fibres | Classification of fibre; fibre-forming polymers; supra-molecular structure; fibre structure; thermodynamics of stretching; orientation; supra-molecular forces: metastable states and dimensional stability of fibre; factors of fibre properties. | 60 | 0 | 30 | 0 | 90 | 6 | Tatjana Rijavec  tatjana.rijavec@ntf.uni-lj.si |
| Planning non-wovens and composites | Definitions and types of non-woven textiles; classification of non-woven textiles; theory and technology of process stages in non-woven textile production; extruded double or multi-layered composites; finishing non-woven textiles. | 45 | 0 | 15 | 0 | 60 | 4 | Dunja Šajn Gorjanc  dunja.sajn@ntf.uni-lj.si |
| Testing of textile | The importance and use of textile testing; standards and their use; evaluation of measurements; properties and methods of fibre testing; properties and methods of yarn testing; properties and methods of fabric testing; elasticity and viscoelasticity of textiles; dimensional stability of textiles; labelling textile products. | 30 | 1 | 30 | 15 | 90 | 6 | Andrej Demšar  andrej.demsar@ntf.uni-lj.si |
| English for Specific Purposes | Upgrading general knowledge of English to a higher professional level; reading strategies and discourse of professional texts; determining key words and writing abstracts, articles and reports; description of graphs; business communication; taking part in discussions. | 0 | 60 | 0 | 0 | 60 | 4 | Barbara Peskar  barbara.peskar@ntf.uni-lj.si |
| Planning dyeing processes | Technological water for the dyeing process; theoretical basics of dyes; preparing dyes for dyeing textiles; dyeing procedures; dyeing fibres, fibre's mixtures and fibres with special properties; auxiliaries in the dyeing process; auxiliaries and methods for after-treatment of dyed material; identification of dyes. | 30 | 15 | 45 | 0 | 90 | 6 | Matej Kert  mateja.kert@ntf.uni-lj.si |

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| **Course** | **Description of the course** | **Hours** | | | | | **ECTS** | **Lecturer** |
| **L** | **S** | **LP** | **O** | **Ʃ** |
| Planning finishing processes | Classification of chemical and mechanical finishing; structure of the finishes, the aim and effect of finishing; effect of additives; processes and conditions of applications; evaluating the quality of finishing; environmental acceptability of the agents and processes. | 45 | 30 | 15 | 0 | 90 | 6 | Barbara Simončič  barbara.simoncic@ntf.uni-lj.si |
| Planning printing processes | Methods, processes and technique of textile printing; machine equipment; processes of manufacturing printing forms; pattern reproduction; preparing fabrics before printing; dyes for printing textiles; importance of subsequent treatment; special printing processes; environmental aspects of textile printing. | 45 | 15 | 30 | 0 | 90 | 6 | Petra Forte  petra.forte@ntf.uni-lj.si |
| Colour measurements in textiles | Electromagnetic radiation and light; absorption of light; fluorescence, phosphorescence; factors influencing colour perception; CIE standard system of colour definition; instruments for colour measurement; computer recipe prediction; equations for colour difference evaluation; assessment of whiteness; standards regarding colour measurement of textile materials. | 30 | 15 | 15 | 0 | 60 | 4 | Sabina Bračko  sabina.bracko@ntf.uni-lj.si |

**Summer semester 2014/2015**

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| **Course** | **Description of the course** | **Hours** | | | | | **ECTS** | **Lecturer** |
| **L** | **S** | **LP** | **O** | **Ʃ** |
| Fibres | Classification of fibre; fibre-forming polymers; supra-molecular structure; fibre structure; thermodynamics of stretching; orientation; supra-molecular forces: metastable states and dimensional stability of fibre; factors of fibre properties. | 60 | 0 | 30 | 0 | 90 | 6 | Tatjana Rijavec  tatjana.rijavec@ntf.uni-lj.si |
| Planning yarns | Spinning properties of yarn; theory and structure of the formation of yarn; structure and properties of yarn; mechanics, kinematics and dynamics of technological stages of yarn production; analysis of influence factors; planning the spinning process. | 45 | 15 | 30 | 0 | 90 | 6 | Dunja Šajn Gorjanc  dunja.sajn@ntf.uni-lj.si |
| Knitted structures | Principles and methods of presenting knitted structures; economics of patterning knitted fabrics/knitwear; CAD systems in knitting; preparing technological documentation for knitted structures. | 30 | 0 | 30 | 0 | 60 | 4 | Alenka Pavko Čuden  alenka.cuden@ntf.uni-lj.si |
| Planning apparel | ISO standards for size systems and labelling of clothing; production preparation; product development; cutting, fixing and sewing; machines and devices; finishing; quality requirements; automation; CAD/CAM systems in the clothing industry. | 45 | 15 | 30 | 0 | 90 | 6 | Mateja Bizjak  mateja.bizjak@ntf.uni-lj.si |
| Basics of 3D modelling | Presentation of the role of 3D computer graphic in media technology and graphic communications; studying of theoretical basis and practical use of basic modelling techniques from polygons to splines and advanced 3D modelling, textures and materials, texture mapping, local and global virtual illumination systems, camera and scene setting, rendering techniques and optimisation of 3D model for computer generated animation. | 30 | 15 | 30 | 15 | 90 | 6 | Helena Gabrijelčič Tomc  helena.gabrijelcic@ntf.uni-lj.si |

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| **Course** | **Description of the course** | **Hours** | | | | | **ECTS** | **Lecturer** |
| **L** | **S** | **LP** | **O** | **Ʃ** |
| Production management | Organisation and management of production; preparing work; standardisation of the technological process; nomenclature and standards of materials; the production planning process and capacities (MRP); production; humanisation of the work; optimisation of the work and workplace; setting norms. | 45 | 15 | 0 | 0 | 60 | 4 | Andrej Demšar  andrej.demsar@ntf.uni-lj.si |
| Business information applications | Learning about the production, introduction and maintenance of information systems; informatisation; computer-assisted systems in a textile/clothing company; introduction and monitoring of IS (role of IS in a company, strategic planning of IS, organisation management, security, protection, evaluation of effects, people in IS, ethics and various IS for various companies). | 60 | 0 | 30 | 0 | 90 | 6 | Raša Urbas  rasa.urbas@ntf.uni-lj.si |
| Entrepreneurship | Learning about the process of planning a new company; entrepreneurship, creativity and innovation; business planning; market analysis; testing the economics of a business idea; marketing planning; development planning of the production/service process; gaining suitable human resources; critical risk; financing initial business. | 30 | 15 | 15 | 0 | 60 | 4 | Aleš Vahčič  avahcic@gmail.com |