

## Dean's regulation no. 1/2015

### **Determination of individual study plan for student of postgraduate study program of TEXTILE ENGINEERING, study branch Textile Technics and Material Engineering**

Studies of accredited postgraduate study program abide by The study and exam regulations of the Technical University of Liberec (v. Postgraduate study programs section 3 article (16) till (23)).

Studies in PGS follow the individual study plan monitored by the supervisor and mostly in the presence of adviser, who has been named by the Dean on the basis of the proposal of branch committee. Individual study plan of PGS specify the subjects and the time schedule, pedagogical activity, determined by the head of the department, theme of scientific research or creative work within the area of research, development, the general definition of the theme serves as the base for the dissertation, possible studies or practice in other departments, including the foreign ones. Individual study plan draw up the student after the consultation with the supervisor or adviser.

In order to complete the study part, students have to pass the exam in the following five branches. Is recommended to maintain the same order. Student choose at least one field from each branch.

#### **1. BASICS OF NATURAL SCIENCE:**

- numerical analysis and applied mathematics,
- theory of probability and mathematical statistics

#### **2. BASIC APPLIED SUBJECTS**

- selected chapters from chemistry,
- selected chapters from physics
- applied mechanics

#### **3. MAIN SUBJECTS OF THE FIELD**

- textile materials,
- textile technology,
- metrology.

#### **4. SPECIALIZATION IN THE FIELD**

The content of the subject will be determined by the dean of the faculty on the basis of supervisor's proposal that have been previously approved by the branch committee, so the content will relate to the dissertation theme. The general study plan determine: the basic requirements for this exam (topic of the exam, alternatively the recommended literature and other requirements). The theme of the written essay mostly relate to the dissertation. The extent is approx. 20 pages. The essay must be available for the examination committee at least 14 days in advance.

#### **5. EXPERIMENTAL ENGINEERING OF THE FIELD**

The content of the subject will be determined by the dean of the faculty on the basis of supervisor's proposal that have been previously approved by the branch committee, so the content will relate to the dissertation theme. Student is obligated to attend a semester study internship outside the parent university at other universities, scientific and research departments or partner departments preferably abroad. At the end of the internship, the student should elaborate an essay of 20 pages extension that concern about the course of the internship and achieved experimental results and its use for the dissertation and new benefits and experiences of the postgraduate student. The essay must be available for the examination committee at least 14 days in advance and the student present and defend achieved results.

The subject for each study branch and their contents including the literature are stated in IS STAG and in the annex 1 of this regulation.

The requirements for successful graduation in the study part of this postgraduate studies are the following:

- Individual study plan (ISP) will determine the exam terms according to the schedule of study program so the students can pass at least three exams within 24 months from the beginning of studies.
- Within three years students must present at least one paper in some foreign language on professional conference or seminar and prepare at least one specialized publication in a magazine. The list of recommended magazines is included in annex 2.

The students prepare for the exam during the assistance on the lectures in the ambit for selected subject or by self study in compliance with the individual study plan. The exams are carried out in the presence of the committee appointed by the Dean and proposed by the supervisor. The committee usually has three members. The examiner is the guarantor of the subject, the supervisor is present and other professional, who is head of the committee.

To intensify the theoretical learning in selected study field, students of postgraduate study program attend seminars organized for this program, conferences and other specialized events. Within the pedagogical practice, students attend tutorials held mostly 4 hours (two learning blocks) per week. Students present in magazines the results that have been achieved during the work on the dissertation and during students scientific conferences and international conferences.

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In Liberec 1. 1. 2015

## Subjects of branches in doctoral study program TEXTILE ENGINEERING realized by Faculty of Textile Engineering Technical University of Liberec

(detailed information about all subjects are available in IS STAG)

| Appendix 1

### Doctoral study programme P3106 – Textile Engineering Branch: Textile Technics and Material Engineering

DSP – Basics of Natural Science compulsory optional subjects (B)

| Course title                              | Abbrev. | Scope | Conclusion | Grade | Sem. |
|---|---------|-------|------------|-------|------|
| Mathematical Statistics and Data Analysis | KAP/D02 | 2+0   | exam       | 1     | WS   |
| Numerical Methods                         | KAP/D40 | 2+0   | exam       | 1     | WS   |
| Differential Equations                    | KAP/D41 | 2+0   | exam       | 1     | SS   |

Student selects one subject from the menu.

DSP – Basic of Applied Subjects compulsory optional subjects (B)

| Course title                           | Abbrev. | Scope | Conclusion | Grade | Sem. |
|--|---------|-------|------------|-------|------|
| Macromolecular Chemistry               | KNT/D18 | 2+0   | exam       | 1     | WS   |
| Mechanics of Fibrous Assemblies        | DFT/D43 | 2+0   | exam       | 1     | WS   |
| Optics of Solids                       | KMI/D05 | 2+0   | exam       | 1     | WS   |
| Structural Mechanics of Fibrous Ass.   | KTT/D51 | 2+0   | exam       | 1     | WS   |
| Physical-chemistry Modeling            | DFT/D42 | 2+0   | exam       | 1     | SS   |
| Heat and Mass Transfer in Porous Media | KHT/D17 | 2+0   | exam       | 1     | SS   |
| Textile Machines Dynamics              | DFT/D44 | 2+0   | exam       | 1     | SS   |

Student selects one subject from the menu.

DSP – Main Subjects of the Field compulsory optional subjects (B)

| Course title                            | Abbrev. | Scope | Conclusion | Grade | Sem. |
|---|---------|-------|------------|-------|------|
| Nanofibres and Nanotechnologies         | KNT/D42 | 2+0   | exam       | 2     | WS   |
| Clothing Comfort                        | KHT/D52 | 2+0   | exam       | 2     | WS   |
| Practical Stereology                    | KNT/D44 | 2+0   | exam       | 2     | WS   |
| Sorption Processes                      | KMI/D13 | 2+0   | exam       | 2     | WS   |
| Structure and Properties of Tex. Fibers | KMI/D07 | 2+0   | exam       | 2     | WS   |
| Structural Theory of Fibrous Assem.     | KTT/D11 | 2+0   | exam       | 2     | WS   |
| Textile Chemistry                       | KMI/D24 | 2+0   | exam       | 2     | WS   |
| Tissue Engineering                      | KNT/D40 | 2+0   | exam       | 2     | WS   |
| Chemical and Thermal Tech. of Nonwovens | KNT/D25 | 2+0   | exam       | 2     | SS   |
| Textiles Projection                     | KMI/D20 | 2+0   | exam       | 2     | SS   |
| Simulation of the Apparel Processes     | KOD/D15 | 2+0   | exam       | 2     | SS   |
| Simulation in Material Engineering      | KNT/D21 | 2+0   | exam       | 2     | SS   |

|                                |         |     |      |   |        |
|--------------------------------|---------|-----|------|---|--------|
| Theoretical Textile Metrology  | KMI/D08 | 2+0 | exam | 2 | SS     |
| Transport Phenomena of Forming | KOD/D16 | 2+0 | exam | 2 | WS, SS |

Student selects one subject from the menu.

DSP compulsory subjects (A)

| Course title                          | Abbrev. | Scope | Conclusion | Grade | Sem. |
|---------------------------------------|---------|-------|------------|-------|------|
| Experimental technique of the textile | DFT/D33 | 0+0   | exam       | 3     | WS   |
| Specialization in Field               | DFT/D30 | 2+0   | exam       | 3     | SS   |

Student has to fulfil both subjects.

DSP – internship elective subjects (C)

| Course title                | Abbrev. | Scope | Conclusion | Grade | Sem.   |
|-----------------------------|---------|-------|------------|-------|--------|
| Internship in a Company I.  | DFT/D60 | 12w   | pass       | 3     | WS, LS |
| Internship in a Company II. | DFT/D61 | 12w   | pass       | 3     | WS, LS |
| Internship Abroad I         | DFT/D62 | 12w   | pass       | 3     | WS, LS |
| Internship Abroad II        | DFT/D63 | 12w   | pass       | 3     | WS, LS |

List of recommended journals for publication in doctoral study program Textile Engineering realized by Faculty of Textile Engineering Technical University of Liberec

| Appendix 2

## Selected journals with impact factor and journals registered in Thomson Reuters database

*Cellulose*, ISSN: 0969-0239, IF 2.817, SPRINGER, NETHERLANDS  
*Dyes and Pigments*, ISSN: 0143-7208, IF 2.635, ELSEVIER SCI LTD, ENGLAND  
*Textile Research Journal*, ISSN: 0040-5175, IF 1.102, SAGE PUBLICATIONS LTD, USA  
*Coloration Technology*, ISSN: 1472-3581, IF 0.970, WILEY-BLACKWELL, ENGLAND  
*Journal of Vinyl & Additive Technology*, ISSN: 1083-5601, IF 0.912, WILEY-BLACKWELL, USA  
*Industria Textila*, ISSN: 1222-5347, IF 0.853, INST NATL CERCETARE-DEZVOLTARE TEXTILE PIELARIE-BUCURESTI, ROMANIA  
*Fibers and Polymers*, ISSN: 1229-9197, IF 0.840, Springer KOREAN FIBER SOC, SOUTH KOREA  
*Journal of Industrial Textiles*, ISSN: 1528-0837, IF 0.811, SAGE PUBLICATIONS INC, USA  
*Journal of Engineered Fibers and Fabrics*, ISSN: 1558-9250, IF 0.771, INDA, USA  
*Wood and Fiber Science*, ISSN: 0735-6161, IF 0.752, SOC WOOD SCI TECHNOL, USA  
*Fibers & Textiles in Eastern Europe*, ISSN: 1230-3666, IF 0.629, INST CHEMICAL FIBRES, POLAND  
*Journal of the Society of Leather Technologists and Chemists and Chemists*, ISSN: 0144-0322, IF 0.561, SOC LEATHER TECHNOL CHEMISTS, ENGLAND  
*Journal of The American Leather Chemists Association*, ISSN: 0002-9726, IF 0.538, AMER LEATHER CHEMISTS ASSOC, USA  
*International Journal of Clothing Science and Technology*, ISSN: 0955-6222, IF 0.529, EMERALD GROUP PUBLISHING LIMITED, ENGLAND  
*Journal of Natural Fibers*, ISSN: 1544-0478, IF 0.393, TAYLOR & FRANCIS INC, USA  
*Journal of the Textile Institute*, ISSN: 0040-5000, 0.381, 15, TAYLOR & FRANCIS LTD, ENGLAND  
*AATCC Review*, ISSN: 1532-8813, IF 0.315, AMER ASSOC TEXTILE CHEMISTS COLORISTS, USA  
*Fibre Chemistry*, ISSN: 0015-0541, IF 0.269, CONSULTANTS BUREAU/SPRINGER, RUSSIA  
*Tekstil ve Konfeksiyon*, ISSN: 1300-3356, IF 0.245, EGE UNIVERSITESI, TURKEY  
*SEN-I GAKKAISHI*, ISSN: 0037-9875, IF 0.202, SOC FIBER SCI TECHNOL, JAPAN  
*TEKSTIL*, ISSN: 0492-5882, IF 0.050, ASSOC TEXTILE ENGINEERS TECHNICIANS CROATIA,  
*Modelling and Simulation in Materials Science nad Engineering*, ISSN: 0965-0393, IF 1,387, IOP PUBLISHING LTD, England  
*Polymer Testing*, ISSN: 0142-9418, IF 2,016, ELSEVIER SCI LTD, ENGLAND  
*Polymers & Polymer Composites*, ISSN: 0967-3911, IF 0,558, ISMITHERS, ENGLAND  
*Journal of Texting and Evaluation*, ISSN: 0090-3973, IF 0,409, AMER SOC TESTING MATERIALS, USA  
*Polymer Engineering and Science*, ISSN: 0032-3888, IF 1,296, WILEY-BLACKWELL, WILEY-BLACKWELL  
*Journal of Applied Polymer Science*, ISSN: 0021-8995, IF 1.240, WILEY-BLACKWELL, WILEY-BLACKWELL  
*Optical Fiber Technology*, ISSN: 1068-5200, IF 0,841, ELSEVIER SCIENCE INC, USA  
*Fiber and Integrated Optics*, ISSN: 0146-8030, IF 0,506, TAYLOR & FRANCIS INC, USA  
*Journal of Fashion Technology & Textile Engineering*, ISSN: 2250-2378 (Print), ISSN: 2319-4510 (Online), IF 2,7235, USA



## Selected journals without impact factor and journals registered in Scopus database

*Autex Research Journal*, ISSN: 1470-9589, The Technical University of Lodz, Poland  
*Canadian Textile Journal*, ISSN: 0008-5170, Canadian Textile Journal Pub. Co,  
*Home Textiles Today*, ISSN: 0195-3184  
*Indian Journal of Fibre and Textile Research*, ISSN: 0971-0426, Scientific Publishers, India  
*International Fiber Journal*, ISSN: 1049-801X, International Media Group, Inc, USA  
*Journal of Cotton Science*, ISSN: 1523-6919, National Cotton Council of America, USA  
*Journal of Textile Engineering*, ISSN: 1346-8235, Textile Machinery Society of Japan, Japan  
*Textile Network*, ISSN: 1612-5096, Meisenbach GmbH, Germany  
*Vlákna a Textil (Fibres and Textiles)*, ISSN: 1335-0617, Research Institute for Man-Made Fibres, Slovakia

## Other journals

*Asian Textile Journal*, ISSN: 0971 3425 Indie  
*Colourage*, ISSN: 0010-1826, Indie  
*International Journal of Fiber and Textile Research*, ISSN: 2277-7156, Indie  
*International Journal of Textile Science and Technology*, ISSN: 1732-xxx, InTech Europe  
*International Journal of Textile Science*, ISSN: 1732-xxx, USA  
*International Nonwovens Journal*, ISSN: 1527-2494, USA  
*Journal of Engineered Fibers and Fabrics*, ISSN: 1558-9250, USA  
*Journal of Fiber Bioengineering and Informatics*, ISSN: 1940-8676, Hong Kong  
*Journal of Textile and Apparel Technology and Management*, ISSN: 15330915, USA  
*Journal of Textile Engineering*, ISSN: 13468235, Japonsko  
*Journal of Textile Science & Engineering*, ISSN: 0971-3425 (Print), Indie  
*Journal of the China Textile Institute*, ISSN: 0040-5000 (Print), 1754-2340 (Online), Čína  
*Journal of the Society of Dyers and Colourists*, ISSN: 1478-4408 (Online), Anglie  
*Man Made Textiles in India* ISSN: 0377-7537 (Print), Indie  
*Melliand Textilberichte- International*, ISSN: 0198-7275, Německo  
*Nonwovens Report International*, ISSN: 09531092, USA  
*Polymer International*, ISSN: 1097-0126 (Online), Korea  
*Technical Textiles International*, ISSN: 0964-5993, Korea  
*Textile Asia*, ISSN: 0049-3554, Korea  
*Textile Chemist & Colorist*, ISSN: 0040-490X, USA  
*Textile Industries Digest*, ISSN: 01152351, Southern Africa  
*Textile Industry Technology*, ISSN: 0021-3497, Rusko  
*The Research Journal of Textile and Apparel*, ISSN: 1560-6074 (Print), Hong Kong  
*World Journal of Engineering*, ISSN: 1708-5284, Kanada

