

Postgraduate (follow-up) Master Study Programmes at FT TUL

INDUSTRIAL ENGINEERING (No723A270004)

Description:

The aim of the consecutive Master's Degree course Industrial Engineering is to train university-educated professionals to become familiar with quality management and metrology and be able to deal with specific issues in production on-site and apply their quality management skills to various industrial segments. They will be able to independently lead projects in their field focusing on new products and their innovations and ensure their comprehensive implementation in production. The industry's demands for continuous product innovation and improved production systems and processes and the stress it places on reducing scrap rates can only be met through the full application of quality management processes, experiment planning and objective statistical analysis of the data obtained. At the same time, however, emphasis is placed not only on general quality assurance knowledge but also a practical understanding of the industry that deals with the production and application of textile fabric structures. The course will provide students with not only theoretical and practical knowledge on this level, but also adequate flexibility, an ability to communicate about industry-specific topics in English, and understanding of engineering disciplines and a set of what is comprehensively referred to as soft skills.

Further study: PhD study programme

Admission Requirements:

Graduating from a Bachelor's degree programme

Stipulated grade average at university or passing an entrance examination

How to Apply - see details at: www.ft.tul.cz/en

Application Deadlines:

- February 28, 2022 (first round)
- July 31, 2022 (second round – together with the **valid** Recognition of previous degree **only**)

Application Fee: USD 100

Tuition Fee: USD 3000 / year

Duration: 2 years

Start of study: September 26, 2022 (winter semester).

Start from summer semester is not allowed.

Total number of ECTS: 120 ECTS



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Compulsory courses - 1 st year	Course code	Winter	Summer	Examination	ECTS
Applied Mathematics	KAP/AMA	4+4		Credit + Exam	6
Physics	KFY/AFY	2+2		Credit + Exam	6
Comfort and Transport Properties of Tex.	KHT/CTP	2+2		Credit + Exam	6
Quality Control	KHT/JAK	2+2		Credit + Exam	6
Project Management	KHT/PRI	2+2		Credit + Exam	5
Statistics	KAP/STT		2+2	Credit + Exam	6
Planning of Industrial Experiments	KHT/PPE		2+2	Credit + Exam	6
MATLAB Programming Fundamentals	KHT/ZPM		0+2	Credit + Exam	4
Textile Metrology and Quality Control	KMI/MHJ		2+2	Credit + Exam	6
Fiber Engineering	KMI/VIN		2+2	Credit + Exam	6
Diploma Thesis 1	KHT/DPR ₁		0+2	Credit (no grade)	3

Compulsory courses - 2 nd year	Course code	Winter	Summer	Examination	ECTS
Special Measurement Methods	KMI/SMM	2+2		Credit + Exam	6
Market Research and Customer Satisfaction	KAP/PTZ	2+2		Credit + Exam	6
Systems of Quality Assurance	KHT/SZJ	2+2		Credit + Exam	6
Analysis and Evaluation of Image Data	KHT/ZOD	2+0		Credit + Exam	6
Project	KMI/PRJ	0+4		Credit + Exam	5
Diploma Thesis 2	KHT/DPR ₂	0+2		Credit (no grade)	6
Textile Engineering	KMI/TEN		2+2	Credit + Exam	5
Marketing and Sales Management	KHT/IMA		2+0	Credit + Exam	4
Composites with Textile Reinforcement	KMI/KMT		2+2	Credit + Exam	6
Economics and Management of Enterprises	KPE/EMP		2+2	Credit + Exam	6
Diploma Thesis 3	KHT/DPR ₃		0+2	Credit (no grade)	4

Student can be enrolled for the next academic year or semester provided s/he fulfils the conditions for enrollment in to the next year or semester of study - to gain at least:

- 10 ECTS credits in the first semester
- 40 ECTS credits in the first year
- 30 ECTS credits in the second year

Students must pass all the compulsory courses in their study plan. They must earn 6 ECTS credits from a pair of facultative courses of the study programme.

The total sum of ECTS credits has to be at least 120.

Alternatively, students may attend any course from the curriculum of all the faculties of TUL, after approval by the guarantor of selected course.

