



JOIN AN INTERNATIONAL, MULTIDISCIPLINARY AND INTENSIVE COURSE IN THE FIELD OF NANOMATERIALS FOR MEDICAL APPLICATIONS

MOBILITY PROJECT FOR HIGHER EDUCATION STUDENTS AND STAFF:

ERASMUS+ BLENDED INTENSIVE PROGRAMMES (BIP'S)

Technical University of Liberec, the Czech Republic
Faculty of Mechanical Engineering

ORGANISING INSTITUTION



Technical University of Liberec, Czech Republic

Contact person and project coordinator: Dr. Jan Valtera (jan.valtera@tul.cz)

Erasmus+ coordinator: Marcela Válková (marcela.valkova@tul.cz)



COLLABORATING INSTITUTIONS



RWTH Aachen

Institute of Textile Technology, Germany, Contact person: Caroline Emonts (Caroline.Emonts@ita.rwth-aachen.de)



Budapest University of Technology and Economics

Faculty of Mechanical Engineering, Hungary, Contact person: László Mészáros (meszaros@pt.bme.hu)



GUEST INSTITUTION



Aston University

School of Infrastructure and Sustainable Engineering, College of Engineering and Physical Science, Great Britain



COURSE CONTENT

- SUMMER SCHOOL (ON SITE)
- VIRTUAL COURSE (ONLINE)
- NUMBER OF CREDITS - 5 ECTS

NANOFIBERS | MEDICAL APPLICATIONS
AC & DC ELECTROSPINNING | DESIGN & SIMULATION
MORPHOLOGY AND BIOCOMPATIBILITY ANALYSIS
HIERARCHICAL NANOFIBROUS STRUCTURES

IMPORTANT TERMS AND DEADLINES

- **Deadline for Applications:**
03/03/2023
- **Virtual Events:**
April – June 2023
- **Physical Event - Summer school in Liberec, Czech Republic:**
17 - 21/7/2023 (5 days, 35 hours)
- **Financial Support under [Erasmus+ Programme](#):**
contact your Erasmus+ Coordinator



MAIN INSTRUCTORS

[David Lukáš](#)

Introduction to the Realm of Nanofibres

[Jaroslav Beran](#)

Technology for Production of Nanofibres

[Jan Valtera](#)

Design Concepts of Spinning Electrodes

[Eva Kuželová Košťáková](#)

Testing Analysis & Application of Nanofibres in Medicine

[& Věra Jenčová](#)

[Caroline Emonts](#)

3D Braiding for Ligament Tissue Engineering

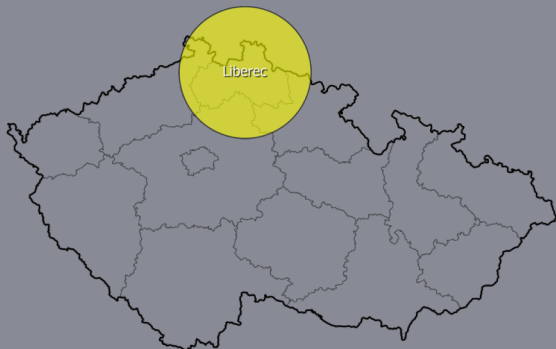
[Mészáros László](#)

Nanoparticles: significance, characteristics, and applications

Gain new skills and knowledge from the field of nanofibers and their application.

Design your own electrode for production of polymeric nanofibers using the AC - electrospinning technology and analyze the nanofiber materials produced.

All of that by learning and working in international teams of students and academics.



www.fs.tul.cz/en/bip



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DETAILED INFORMATION

