

through its Strategy, but it is necessary to increase the number of companies and institutions that collaborate within this framework, which is related to the better representation of all kinds of textile products and to the participation of all entities connected to the activities of the textile industry (universities, selling chains, etc.). In conclusion, clusters represent the future of the Serbian textile and clothing industry, but this future is, to a great extent, insecure and undetermined.



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## Technical University of Lodz Faculty of Material Technologies and Textile Design

### Department of Man-Made Fibres

#### Research:

The Department of Man-Made Fibres has more than 50 years of history and experience in man-made fibres

The main scientific interest of the Department can be divided into several fields:

- composite interactive cellulose fibres based on NMMO,
- nanofibres from biodegradable polymers,
- advanced materials based on biodegradable polymers for medical and technical applications,
- special fibres based on advanced polymers.

The Department is equipped with advanced devices for spinning solution preparation and fabrication of fibres and nanofibres by different methods (melt state, dry-wet, wet spinning).

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The Department is currently looking for partners from academia or industry.

#### We offer:

The Department is equipped with various devices for the determination of the properties of fibres and polymers:

- thermal analysis (TGA and DSC),
- rheometers and devices to determine the melt flow rate,
- devices for determining the mechanical properties of fibres (e.g. tensile tester),
- spectrometers (FTIR, UV-vis),
- optical microscopes.

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