**The Institute**

Dr B R Ambedkar National Institute of Technology, Jalandhar (NITJ) is a leading premier autonomous Institution of northern India (under Ministry of Human Resource Development, Govt. of India, New Delhi) located in eco-friendly environment amidst a rambling campus spread over 154 acres. Established in the year 1987 as Regional Engineering College, was given the status of National Institute of Technology in the year 2002 under the aegis of Ministry of Human Resource Development, New Delhi. The Institute was accorded the status of 'Institute of National Importance' under the act of Parliament-2007. The Institute offers Bachelor of Technology (B Tech) programmes in nine disciplines of Engineering and Technology, Master of Science in Chemistry, Physics and Mathematics, Master of Technology (M Tech) and Doctor of Philosophy (Ph D) in all Disciplines of Science & Engineering. Institute also possesses a Central Workshop, CAD/CAM centre and Computer Centre for soft computing. Central Library of the Institute subscribes e-journals and standards with on-line access and hard copies of latest books and Journals.

The various departments of the institute are actively involved in several sponsored projects including DST - FIST Programme, TEQIP-II, DST-instrumentation, TIFAC and MHRD projects etc. Faculty members are also involved in outside institutes - network / joint projects, international and national academics, professional societies, industry/ government/ public/ community service, consultancy etc.

**Department of Textile Technology**

The department is pioneer in grooming textile engineers in this part of the country. Among 31 NITs of the country, it is the only NIT which runs textile technology courses and provides trained manpower to the textile industry. The department has well experienced and dedicated faculty, wide gamut of interdisciplinary research activities encompassing garment manufacturing, sewing threads, fabric and sewing thread interaction, seam characterization, garment designing, stretchable garments, garment comfort, garment chemical processing, nonwoven fabric development, aerosol filtration, surgical gowns, coir geomesh, development of bandage fabric and antimicrobial fabrics, nano-composite filaments, development of specialty yarns, waste water management.

The department has seven well equipped laboratories with modern research facilities providing technical support to the nearby industry, which are continuously being upgraded under TEQIP-II, DST-FIST and DST-instrumentation programme. In addition, several laboratories under other engineering departments and science disciplines are available for carrying out intra as well as inter-departmental research activities. The research of the department has been reported in reputed academic and applied journals, international conference proceedings etc.

Recently the department has successfully completed GOI sponsored projects on designing nonwoven fabric for pulse jet filtration, needle punched blankets, optimization of production process of PP/carbon nano-fiber composite filament.
About the Speaker

Professor Rajendran S
PhD, AIC, FICS, CText FTI
Professor of Biomedical Materials
University of Bolton, Bolton, UK

After 17 years of service at the South India Textile Research Association (SITRA), India, Rajendran (Raj) moved to the University of Bolton, UK in 1998. Since then he has been actively involved in Healthcare & Biomedical Textile Devices research, teaching and consultancy assignments at the Institute for Materials Research and Innovation. He has been actively involved in R&D for 34 years and has successfully completed a number of research projects in the past funded by companies and government funding agencies. Raj has so far authored 152 research papers which include 4 books, 7 monographs, 14 book chapters and 8 patents. An interdisciplinary book entitled ‘Advanced Textiles for Wound Care’, edited by him has received a greater attention among readers and its second volume is under production.

Rajendran is a Fellow of the Textile Institute (TI) and a member of Council and is currently Chairman of Professional Qualifications Committee of the TI which is a century old Royal Chartered institute in Manchester, UK. He is the recipient of a prestigious Research Fellowship award from the United Nations Industrial Development Organisation (UNIDO).

Current research interests:
Healthcare and Textile based biomedical Devices, Smart Materials and Polymer Modification of Textile Substrates.

About the Course

The course is aimed to disseminate knowledge on medical textiles and tissue engineering covering various aspects of medical textiles like fibres/speciality fibres & fabrics used in medical textiles, wound dressings, bandage materials, infection control and barrier materials, tissue engineering, scaffolds, vascular grafts etc., specific case studies in designing medical textiles/devices, testing and characterisation of medical devices, clinical trials, marketing aspects of medical textiles.

Medical textiles and tissue engineering is an interdisciplinary research area, so the course would be beneficial for the engineers/technologist and the biologist. It would help to gain knowledge relating to various aspects of the most dynamic upcoming research area and product development for:
- Textile & Polymer Technologists
- Material Scientists
- Biotechnologist, Biochemists
- Students or faculty from academic institutions
- Industry/Research organization

How to Apply?
The applicants should send their applications to email: sikkam@nitj.ac.in and choudharyak@nitj.ac.in before November 05th, 2019.

Organizing Committee

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Participants

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<thead>
<tr>
<th>Description</th>
<th>Fee (INR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>1000</td>
</tr>
<tr>
<td>Researchers, faculty members and</td>
<td>2000</td>
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<tr>
<td>for Industry participants</td>
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Boarding and Lodging
Boarding and lodging will be provided to limited participants in the Institute campus on payment basis.