

# Textile Product Design

---

January 14-18, 2019

## Overview

Textile product design becomes a careful creative practice in present scenario in which the focus is the interplay between the artefact and its social environment. This means to create artefacts that form a world, which is comprehensible, manageable, and meaningful. In this endeavour, we need more cooperation between practitioners from the social and technical sciences, the humanities and design. Research in design is quite young and a consensus about methods and research paradigms are not yet formed. One discussion is whether design should conform to established ideas about science and research or whether it is something unique that should develop its own research agenda. These questions are answered by looking at theories from semiotics and social action theory. Semiotic theory provides us with tools to analyse different layers of meaning in artefacts and how these meanings are constructed for “well worn”. It is helpful in the difficult, and much discussed, issue in design between form, content and function. Social action theory shows how reality is a social construction from mind to market where typified actions become objective phenomena.

## Objectives

This course will be informative, and will emphasise practical aspects in designing to meet stringent requirement of concept to consumption through systematic approach. The objectives will be as followed;

- ◆ Generating the idea for a product/service
- ◆ Idea Screening
- ◆ Testing the Concept
- ◆ Business and Marketing Analytics
- ◆ Product Development
- ◆ Valorization

## Topics to be covered

- ◆ Research trends in fibre based materials
- ◆ Nano reinforced composites
- ◆ Auxetic fibre based materials
- ◆ Innovative applications of fibres and textiles in medicine
- ◆ Innovative applications of fibres and textiles in construction and architecture
- ◆ Innovative applications of fibre and textiles in transport system
- ◆ Garment design

<b>Course duration</b>	<b>January 14-18 (5 days)</b>
<b>Who can attend...</b>	<ul style="list-style-type: none"> <li>◆ Executives, engineers and researchers from manufacturing, service and government organizations including R&amp;D laboratories.</li> <li>◆ Student students at all levels (B Tech/MSc/M Tech/PhD) or Faculty from reputed academic institutions and technical institutions.</li> </ul>
<b>Fees</b>	<p>The participation fees (excluding lodging and boarding) for taking this course is as follows:</p> <ul style="list-style-type: none"> <li>◆ Faculty/Scientists/Industry Personnel from abroad : US \$200</li> <li>◆ Student participants from abroad : US \$100</li> <li>◆ Persons working in Industry/ Consultancy Firms: Rs. 5,000/-</li> <li>◆ Faculty (Internal &amp; External)/ Scientists from Research Organizations: Rs. 4,000/-</li> <li>◆ Students: Rs. 1,000/-</li> </ul> <p>The above fee includes all instructional materials, computer use for tutorials and assignments, and session refreshments. The participants will be provided with accommodation on payment basis.</p>

## The Faculty



Prof. Raul Figueiro is currently professor and senior researcher in the School of Engineering at the University of Minho, Portugal. He is the Head of the Fibrous Materials Research Group of the same university with expertise in advanced materials (nano, smart, composites) and structures (3D, auxetic, multiscale) with 35 researchers. He is the mentor and the coordinator of the FIBRENAMICS

developing promotion, dissemination, technology transfer and research activities on fiber-based advanced materials. He has more than 125 published papers in international reputed scientific journals, 350 conference publications, 36 books and 14 patents. He is the scientific coordinator of several national and international research projects on advanced fibrous and composite materials, mainly for building, architectural and health-care applications. He has supervised various PhD and Pos-Doc scientific works and is an expert of the European Technological Textile Platform and member of the editorial board of several leading international scientific journals on composite and fibrous materials.



Dr. A Chatterjee is a Professor, Department of Textile Technology, National Institute of Technology, Jalandhar. He has 5 years industry, 27 years teaching experience. His area of interest is Fibre reinforced composite, conductive textiles, fluid flow in fibrous assembly.



Dr. KVP Singh is an Assistant Professor, Department of Textile Technology, National Institute of Technology, Jalandhar. He is having 2 years of industrial and 21 years of teaching experience. He has contributed more than 24 national and international publications. His area of interest is Garment Design.

One week GIAN  
course on

## Textile Product Design

January 14-18, 2019

## Course Coordinators

**Dr. Kanwar Varinder Pal Singh**  
Assistant Professor, Department of  
Textile Technology, Dr B R Ambedkar  
NIT Jalandhar  
Email: [singhkv@nitj.ac.in](mailto:singhkv@nitj.ac.in)  
Phone: 9815573998

**Dr. Arobindo Chatterjee**  
Professor, Department of Textile  
Technology, Dr B R Ambedkar NIT  
Jalandhar  
Email: [chatterjeea@nitj.ac.in](mailto:chatterjeea@nitj.ac.in)  
Phone: 9417091644

<http://www.gian.iitkqp.ac.in/GREGN>