

How to Apply

The fee in the form of QR code, DD drawn / at par Cheque in favour of "Director, CIRCOT" payable at Mumbai, may be sent to the below mentioned address so as to reach us on or before January 10, 2024. QR code for payment transaction and Bank account details for NEFT transfer is mentioned below:

Account Name : Director, ICAR-CIRCOT
 Bank Name : State Bank of India, Commercial
 Branch, Dadar East,
 Mumbai - 400014
 Account No. : 10001710244
 IFSC Code : SBIN0004114



How to Reach CIRCOT

From Airport (Domestic) : 10 km
 From Airport (International) : 12 km
 Nearest Railway Station : Dadar (1.7km)
 Nearest Bus Stop : Kapol Nivas, Dr. Ambedkar Road,
 Matunga East,
 Five Gardens bus stop
 Landmark : Five Gardens, Matunga (E)
 Google Map Link : <https://goo.gl/maps/fst1KuarqCnYA5T26>

Organizers

Programme Director : Dr. S. K. Shukla, Director, ICAR-CIRCOT
 Course Director : Dr. Sujata Saxena, Principal Scientist & Head, CBPD
 Course Co-ordinators : Dr. N. Vigneshwaran, Principal Scientist, CBPD
 Dr. A. K. Bharimalla, Principal Scientist, ETDD
 Dr. A. S. M. Raja, Principal Scientist, QEID
 Dr. A. Arputhraj, Senior Scientist, CBPD
 Dr. Sundaramoorthy, Principal Scientist, ETDD

Address for Correspondence

Dr. Ashok Kumar Bharimalla
 Principal Scientist, (Training Incharge)
 ETDD, ICAR-CIRCOT,
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 Website : www.circot.icar.gov.in



Training on Nano-finishing of Textile Fabrics with particular emphasis on wool



January 15-24, 2024

Organized by

भा. क. अनु. प. - केंद्रीय कपास प्रौद्योगिकी अनुसंधान संस्थान
 ICAR - Central Institute for Research on Cotton Technology (ICAR-CIRCOT)
 D.A.R.E., Ministry of Agriculture & Farmers Welfare, Govt. of India
 Adenwala Road, Matunga, Mumbai- 400019 (MH) INDIA



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Introduction

The ICAR-Central Institute for Research on Cotton Technology (ICAR-CIRCOT), one of the premier constituent institute of Indian Council of Agricultural Research (ICAR), was established in 1924. The institute is conducting research and development on all aspects of the post harvest processing of cotton and value addition to cotton by-produce with following mandate:

- Basic and strategic research on processing cotton and its agro-residues, development of value added products and quality assessment
- Skill development and business incubation services and function as referral laboratory for cotton fibres.

ICAR-CIRCOT is one of the institutes involved in R&D activities of natural fibres. The institute has been running skill development program to disseminate, support and mentor entrepreneurs in adopting and successfully marketing commercially viable technologies.

About the training programme

Nano-finish is a textile finishing technique that uses nanotechnology to create care-free fabrics. The technique creates fabrics that are highly active and have UV-blocking, antimicrobial, and self-cleaning properties. Nano-finishing is one of the way of value addition of textile fabrics. SKUAST-Kashmir is currently executing Holistic Agriculture Development Programme entitled “Promotion of wool and pelt for effective processing and marketing”. Their R&D is one of the inevitable components of the programme under that SKUAST-Kashmir intend to develop diversified range of wool and fur-based value-added products. As, ICAR-CIRCOT is having expertise and facilities for nano-finishing of the textile fabrics, so a skill development programmes has been decided to conduct for Project team of SKUAST-Kashmir on nano-finishing of the textile fabrics. This is a first of its kind training programme on “Nano-finishing of Textile fabrics with particular emphasis on wool”. This training programme will benefit both research institutes to grow more together by sharing ideas and experiences.

Objectives

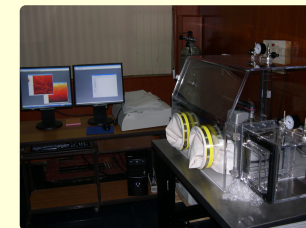
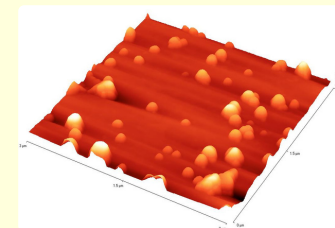
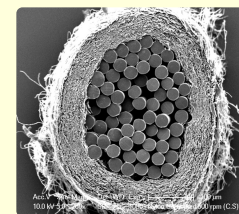
- To acquaint the trainees about the basics and recent advances in nanotechnology
- To impart hands-on training on synthesis & characterization of nanomaterials
- To impart hands-on training on application of nanomaterials in finishing of textile materials and their evaluation.

Course Content

- Basics of Nanotechnology
- Synthesis of various Nanomaterials
- Characterization of Nanomaterials
- Nanotechnology Application to Improve the Functionality of Textiles
- Environmental Management using Nanotechnology
- Bio Nanocomposites for packaging applications
- Nanotechnology in wound dressing and textile materials
- Electrospinning for production of nanofibres
- E-Textiles using nanotechnology
- Nanotoxicology and life cycle analysis
- Business incubation opprtunities in Nanotechnology

Facilities Available

- Nanoparticle size analyzer (DLS)
- Atomic Force Microscope (AFM), Electrospinning
- X-Ray Diffraction (XRD), BET analyzer
- Scanning Electron Microscope (SEM)
- Fast protein liquid chromatograph
- Textile finishing & Characterization
- Composite making & Characterization



Date & Venue

January 15 - 24, 2024 at ICAR- Central Institute for Research on Cotton Technology (CIRCOT), Adenwala Road, Matunga (East), Near Five Gardens, Mumbai 400019.

Accommodation

Guest house accommodation at ICAR-CIRCOT shall be provided at standard rate.

Fees

The Programme fee is Rs. 80,000/- + 18% GST per participant. The charges includes course fee, course material, breakfast, and working lunch.