

## INCUBATION, PROTOTYPE & PRODUCT DEVELOPMENT CAPABILITIES

### PILOT CAPABILITIES

- Needle Punching - 0.6 mtr width
- Dip Coating
- Knife – on Roll Coating
- Knife – on Air Coating
- Hot Calendaring

### FACILITIES AVAILABLE FOR INCUBATION & PRODUCT DEVELOPMENT

- Hot Melt Coating & Lamination - 2.2 mtr width
- Coir Needle Felt - 2 mtr width
- Wet Wipe Manufacturing
- Needle Punching - 1.6 mtr width
- Micro Wadding - 1.6 mtr width

### FOCUS INCUBATION CENTER

- P P Melt Blown Filter Cartridge Machine
- CTO Filter machine
- Face Mask Making Machine
- Coir wood / Sheet Printing Machine
- Coir wall / Roof Panels Making Machine
- Coir wood Manufacturing

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**PSGTECHS COE INDUTECH**

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### TRAINING PROGRAM CAPABILITIES

- Training program for technical textile workforce
- Customized training programs on machines / products
- Workshop for students & Research Scholars on specific areas
- Seminars & Conferences
- One credit courses for students
- Training program for Entrepreneurs for new product development

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### INTRODUCTION

PSG College of Technology established in 1951, is one of the many educational institutions nurtured by PSG & Sons' Charities Trust. The college is government aided, AICTE approved Autonomous institution affiliated to Anna University, Chennai and ISO 9001 certified. The Departments of Textile Technology and Automobile Engineering of PSG College of Technology were sanctioned with Centre of Excellence (COE) in Industrial & Home Textiles by Ministry of Textiles under Technology Mission on Technical Textiles (TMTT) scheme to promote the field of Technical Textiles in India. PSG Management has set up this facility on a sprawling campus in Neelambur, Coimbatore.

The term 'INDUTECH' refers to a subgroup of a wider category of Technical Textiles, referring specifically to those textile products used in the course of manufacturing operations. 'HOMETECH' segment of technical textiles comprises of the textile components used in the domestic environment- interior decoration and furniture, carpeting, protection against the sun, cushion materials, fireproofing, floor and wall coverings and textile reinforced structures.

### VISION

To be a dynamic, competitive and world class "Center of Excellence" for Technical Textiles research with an emphasis on Industrial & Home Textiles dedicated to the aspirations of the Indian Technical Textile Industry.



## PRODUCT FOCUS



### FILTRATION & SEPARATION

- Air Filters
- Liquid Filters

### INSULATIVE MATERIALS

- Acoustical Products
- Thermal Insulation

### HOT MELT COATED & LAMINATED TEXTILES

- Mattress Protectors
- Baby Dry Protectors
- Extreme Cold Weather Clothing
- Tent Clothing

### CLEANING SOLUTIONS

- Industrial Wipes
- Oil Sorbents
- Cleaning Products

### GREEN CONCEPTS

- Floor Mats
- Coir Mattress
- Mulch Mats
- Coir Particle Board
- Coir Plant Pots

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## TESTING CAPABILITIES

### FILTER TESTING

- Filter Test Rig for Fuel
- Filter Test Rig for Oil
- Capillary Flow Porometer
- Air permeability tester

### INSULATION TESTING

- Impedance Tube Tester
- Thermal Resistivity Tester
- Electrical Surface & volume Resistivity Tester

### FLAME TESTING

- Vertical Flame Test
- Horizontal Flame Test
- Inclined Flame Test
- Limiting Oxygen Index

### CHEMICAL TESTING

- FTIR
- pH Meter
- UV Vis – Spectroscopy
- Laundrometer
- Viscometer

### ANALYTICAL TESTING

- FESEM
- STA (DSC with TGA)
- XRD
- UV Accelerated Weatherometer
- UV Transmittance Analyzer
- Hydrostatic Head Tester
- Fog Tester

### PHYSICAL TESTING

- Tensile Tester – 100 KN
- Tensile Tester – 10 KN
- Tear Strength Tester
- Weighing Balance
- Thickness Tester
- Spray Rating Tester
- Burst Strength Tester
- Stiffness Tester
- Bundesmann Tester
- Hot Air Oven

### SURFACE CHARACTERISTICS TESTING

- Process Tensiometer
- Wet scrub Abrasion Tester
- Martindale Abrasion Tester
- Taber Abrasion Tester



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