



**PSG COLLEGE OF TECHNOLOGY**  
**PSGTECHS CENTRE OF EXCELLENCE IN INDUSTRIAL TEXTILES**  
**(PSGTECHS COE INDUTECH)**

(Promoted by office of the Textile Commissioner, Ministry of Textiles, Government of India)



**ONE DAY TRAINING PROGRAM ON**  
**"TESTING OF TECHNICAL TEXTILES"**

**ON 31-07-2013 AT PSGTECHS COE INDUTECH, PSG FOUNDRY DIVISION CAMPUS, NEELAMBUR.**



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 by Anna University, Chennai and ISO 9001 certified. Equipped with latest facilities and excellent Infrastructure, the college offers a total of 48 full time programmes in Engineering, Technology, Management and Science at UG, PG and Doctorial levels.

**PSGTECHS COE INDUTECH**

The Departments of Textile & Fashion Technology and Automobile Engineering of PSG College of Technology are sanctioned with COE in Industrial Textiles by Ministry of Textiles under Technology Mission on Technical Textiles (TMTT) scheme. This facility is coming up on a sprawling campus in Neelambur.

The term 'Industrial Textiles' refers to a subgroup of a wider category of Technical Textiles, referring specifically to those textile products used in the course of manufacturing operations such as filters, conveyor belts, automotive carpets, sound absorption pads, abrasive substrates or which are

incorporated into other industrial products like electrical components, cables, flexible seals, acoustic and thermal insulation of industrial appliances.

**OBJECTIVES**

The main objective of this COE is to build an infrastructure facility for Industrial Textiles, which supports high quality research and industrial collaboration.

To achieve the following objectives to the stake holders.

- \* Manufacturing, Testing and evaluation of Industrial textile products.
- \* Facilities for indigenous development of prototypes.
- \* Training of man power for production of industrial textile products.
- \* Process and product development.
- \* Preparation of detailed project reports (DPR).
- \* To organize workshops, seminars and conferences to impart / transfer the knowledge to the industry.
- \* To incubate new entrepreneurs.





## ELIGIBILITY

This training course is open to all working professionals and practicing engineers, students of UG/PG Faculties, and Entrepreneurs.

## COURSE CONTENT

### Session I

- \* About COE Indutech
- \* Introduction to Technical Textiles

### Session II – Overview

- \* Air permeability Tester
- \* Elmendorf Tearing Tester
- \* Tensile Tester –Grab Test
- \* Digital Thickness Tester
- \* Stiffness Tester
- \* GSM Tester – Nonwovens

### Session III

- \* Demonstration of Testing Instruments

## REGISTRATION

Filled up registration form are to be submitted to the following address along with DD in favor of “**The Director, Coeindutech, PSGCT**” payable at Coimbatore.

## REGISTRATION FEE

Students: **Rs.1000/-**  
Others: **Rs.2000 /-**

## IMPORTANT DATES

Last date for the receipt of applications : **30-07-2013**

## ORGANISING COMMITTEE

### Director

Dr.R.Rudramoorthy,  
Principal, PSG College of Technology.

### Joint Directors

Dr.G.Thilagavathi, Professor & Head,  
Department of Textile Tech, PSGCT.  
Dr. S.Neelakrishnan, Professor & Head,  
Department of Automobile Eng, PSGCT.

### Program Coordinators

Mr.R.G.Shekar, Center Head  
Mr.V.Muthukumar, Project Engineer  
Mr.R.Jayaprakash, Project Engineer  
Mr.G.Selvakumar, Assistant Professor (Research)  
Mr.S.Vishak, Assistant Professor (Research)

## CORRESPONDENCE ADDRESS:

PSGTECHS COE INDUTECH,  
PSG & SONS CHARITIES,  
Metallurgy & Foundry Division Campus,  
Neelambur, Coimbatore – 641 062.  
Tel: +91 422 3933250-52  
Mob: 9003939945, 9486111190, 9629550295  
E-mail: psgindutech@gmail.com,  
Website: www.psgtech.edu/coeindutech

## FREE SAMPLE TESTING







Samples will be tested at free of cost on priority basis.

Samples must be reach **two days before** the course.

Sample size required: **1squre meter**



## ABOUT THE TESTING INSTRUMENTS

| S.No | Instrument   | Description  | Standards   |
|------|--|--|---|
| 1    | <b>Air Permeability Tester</b><br><br>Textest Instruments ,Switzerland            | Determination of the air permeability of all kinds of flat materials and of foam cubes.<br>The measuring range covers dense papers and air bag fabrics as well as extremely open Nonwovens and forming fabrics.  | ASTM D 3574,<br>EN ISO 7231.                                  |
| 2    | <b>Elmendorf Tearing Tester</b><br><br>Textest Instruments , Switzerland          | Determination of the average force required to propagate a single-rip tongue-type tear starting from a cut in paper, cardboard, plastics, non-woven and woven fabrics, with proper configuration.  | ASTM D 1424,<br>ASTM D 5437,<br>ISO 1974,<br>ISO 9290.        |
| 3    | <b>Zwick Roell Tensile Tester</b><br><br>Zwick Asia private Limited<br>Singapore | The Zwick Roell Z010 machine is available with a maximum operating force range of 10KN.<br>The instrument is suitable for testing standard tensile, compression and flexure tests and applications from all fields like nonwoven textiles, Geo textiles, Conveyer belts, composites, Geo plastics, Straps, Belts, Ropes, Cordages and Thermal insulation materials etc., | ASTM D 5034,<br>ASTM D-2256,<br>ASTM D 5035.                  |
| 4    | <b>WIRA Digital Thickness Tester</b><br><br>WIRA Instruments Ltd, UK            | Digital Thickness gauge used to measure the thickness of different types of material like carpets, Nonwovens and Geotextiles with different three pressures foots like 0.5 kPa, 1.0 kPa and 2.0 kPa for testing Carpets, Nonwovens and Geotextiles respectively.   | ISO 9073 – 2:1996,  |
| 5    | <b>Stiffness and Bending Tester</b><br><br>WIRA Instruments Ltd, UK             | The WIRA Bending length tester is used to determine the bending length of a Nonwoven fabric and from this flexural rigidity can be calculated.   | ISO9073-7:1995  |
| 6    | <b>Nonwoven GSM Cutter</b><br><br>MAG Solvics Pvt Ltd, India                    | It is a specialized instrument to determine the GSM of the fabric (Woven, Non Woven, knitted etc). It can be used for virtually any type of material including film, foam, carpet, paper, board etc.   | ASTM 2646/<br>D3776,<br>BS2471/3424,<br>IS 1964.<br>ISO 3801. |



**ONE DAY TRAINING PROGRAM ON  
“TESTING OF TECHNICAL TEXTILES”**

**On 31-07-2013**

**Registration Form**

Name : \_\_\_\_\_

Designation : \_\_\_\_\_

Organization : \_\_\_\_\_

Address : \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Telephone Number : \_\_\_\_\_

Mobile Number : \_\_\_\_\_

Email Id : \_\_\_\_\_

No. of persons attending : \_\_\_\_\_

Registration fee : For Students Rs.1000/- per participant

Others: Rs.2000/- per participant

Mode of payment : \_\_\_\_\_

DD/Cheque details : \_\_\_\_\_

Filled up registration form are to be submitted to the following address along with DD in favor of

**“The Director, Coeindutech, PSGCT” payable at Coimbatore.**

**Correspondence address:**

PSGTECHS COE INDUTECH,  
PSG & SONS CHARITIES,  
PSG COLLEGE OF TECHNOLOGY,  
Metallurgy & Foundry Division Campus, Avinashi Road,  
Neelambur, Coimbatore – 641 062.  
Tel: +91 422 3933250-52,  
E-mail: [psgindutech@gmail.com](mailto:psgindutech@gmail.com),  
Website: [www.psgtech.edu/coeindutech](http://www.psgtech.edu/coeindutech)