

## SPONSORSHIP

Prof./Dr./Mr./Ms. \_\_\_\_\_ is an employee of our institute and his/her application is hereby sponsored. The applicant will be permitted to attend the short-term course “**Composite Materials: Processing Challenges and Opportunities**” at NIT Trichy during July 13<sup>th</sup> - 24<sup>th</sup>, 2009., if selected.

Date:

Signature of the Head of the Institution

Designation:

Official Seal:

DD No:

Date:

Bank:

Amount:

Signature of the Applicant

The duly sponsored application form should be mailed to:

**Dr.C.Sathiya Narayanan / Dr.V.Senthilkumar /  
Mr.K.Panneerselvam,**

Coordinator,

AICTE-MHRD sponsored FDP  
Department of Production Engineering  
National Institute of Technology  
Tiruchirappalli-620015, TN, INDIA.

Ph. No.: 9865027102 / 9443532090 / 9952842776

Fax No.: 0431 2500133

email:csathiya@nitt.edu/vskumar@nitt.edu/kps@nitt.edu

## ELIGIBILITY

Faculty members from technical institutions approved by AICTE and individuals working in industry or R&D organizations are also eligible to attend this programme. However, applicants working in AICTE approved engineering colleges are eligible for the TA, free Boarding & Lodging and their registration fee will be refunded.

## REGISTRATION FEE

Registration fee for participants from academic institutions: Rs.300/- and Participants from Industry, R&D Org.: Rs.5000/-. The registration fee must be paid by a Demand Draft in favour of “The Director, NIT, Tiruchirappalli - 620015” and payable at SBI, NIT, Tiruchirappalli.

## FINANCIAL ASSISTANCE

Boarding and lodging will be provided in the Institute hostel for the participants from degree level institutions and TA will be paid as per AICTE norms. Industrial participants have to make their own arrangements for boarding and lodging and also no TA will be paid.

## IMPORTANT DATES

The last date for the receipt of duly sponsored applications: 07.07.2009 and intimation of selection will be made on the same day through e-mail.

AICTE – MHRD  
sponsored  
FACULTY DEVELOPMENT PROGRAMME

ON

**COMPOSITE MATERIALS:  
PROCESSING CHALLENGES AND  
OPPORTUNITIES**



NIT, Trichy



AICTE, New Delhi

**13<sup>th</sup> - 24<sup>th</sup> July 2009**

Organized by

**Department of Production Engineering**

**National Institute of Technology**

**Tiruchirappalli-620 015**

**Tamilnadu**

## IMPORTANCE OF THIS COURSE

Composite Materials have been extensively used in Aerospace and other allied industries because of their inherent advantages over the conventional metallic materials. There has been a tremendous rise in the use of such materials especially in the space and defense applications in last two decades. This led to the research and development programs carried out globally in this field. In India R&D organizations and premier educational institutes are actively engaged in research and development in the field of composite materials. So basic understanding and information regarding state of the art in this area is very important and need to be conveyed to the undergraduate and postgraduate engineering students as well as the practicing engineers.

## SCOPE AND OBJECTIVES

This course is both introductory and advanced in nature addressing the fundamental understanding as well as the complexities involved in the processing of composite materials. The course has been designed for teachers / research scholars / professionals with an engineering background. Even though the subject of composite material is interdisciplinary in nature, emphasis has been laid in the present course on understanding the basic mechanics and design aspects of structural composites with a wide coverage on the processing aspects.

## COURSE CONTENTS

- ✓ Introduction to Composite Materials
- ✓ Micro and Macro-Mechanics
- ✓ Failure Theories and Strength Analysis
- ✓ Design and Manufacturing
- ✓ Forming/joining/machining of composites
- ✓ Applications of Composites
- ✓ FE modeling of Composite Structures
- ✓ Nanocomposites

## FACULTY

Faculty members of IITs/NITs and guest faculty members from other premier Institutions / Organizations will deliver the lectures.

## ABOUT NIT TIRUCHIRAPPALLI

The National Institute of Technology, Tiruchirappalli, situated in the heart of Tamil Nadu on the banks of river Cauvery, was started as a joint and co-operative venture of the Government of India and the Government of Tamil Nadu in 1964 with a view to catering to the needs of manpower in technology for the country. The college has been conferred with autonomy in financial and administrative matters to achieve rapid development. NIT- Tiruchirappalli is located about 22 km from Tiruchirappalli Jn / Central Bus-stand on the Tiruchirappalli -Thanjavur Highway. The simplest and most economical way to reach NIT Tiruchirappalli is by bus. Board Thanjavur bound route bus and get down at NITT. The journey time from Tiruchirappalli will be around 45 minutes.

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ON

## COMPOSITE MATERIALS: PROCESSING CHALLENGES AND OPPORTUNITIES

13<sup>th</sup> -24<sup>th</sup> July, 2009

## Application Form

**1. Name (block letters):**

**2. Designation:**

**3. Department:**

**4. Organization:**

**5. Address for communication:**

**Pin code:**

**Ph. No.:**

**Fax No.**

**e-mail:**

**6. Sex:**

**Date of Birth:**

**7. Highest Academic Qualification:**

**8. Specialization:**

**9. Experience (in years):**

**10. Choice of Accommodation(Y/N):**

**Place:**

**Date:**

Signature of the applicant